REDACTED VERSION

2259

VETCO GRAY (2259)

EPAHO103001067

9586105

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **7/19/2007**

Dear **Brian Marcantel**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2259

Generator: Vetco Gray - Kilgore
Address: 4308 State Highway 42
Kilgore, TX 75662

Waste Information

Name of Waste: Test booth and washbay sludge
TCEQ Waste Code #: 00146951
Container Type:
Detailed Description of Process Generating Waste:
Sludge and water from cleaning washbay and test booth containments
Color: dark **Odor:** none **pH:** 8.5-9
Physical State:
Incompatibilities: none known
Safety Related Data/Special Handling:
standard

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Vetco Gray Inc		
Address:	4308 State Highway 42		
City, State, Zip:	Kilgore, TX 75662		
Contact:	Brian Marcantel	**Title:**	District Manager
Phone No:	903-984-2940	**Fax No:**	903-984-4090
24/hr Phone:			
U.S. EPA I.D. No:	TXR000040659		
State I.D.	86635	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Test booth and washbay sludge
Detailed Description of Process Generating Waste: sludge and water from cleaning washbay and test booth containments

Physical State: ☐ Liquid ☒ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: dark **Odor:** none

Specific Gravity (water=1): 1-1.3 **Density:** 8.34-8.5

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☒ Drum ☒ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 gal 300 gal

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 5 **Other:**
Texas State Waste Code No: 00146951
Proper U.S. DOT Shipping Name: Non RCRA Non DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>150	8.5-9	36mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
>13000mg/l	>100mg/l	0mg/l	0mg/l	0mg/l

EPAHO103001069

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	30-40	%
Sludge	60-70	%
Oil	0-5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Analytical 7060791

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ____
TCLP Volatiles: ____
TCLP Semi-Volatiles: ____
Reactivity: ____
Corrosivity: ____
Ignitability: ____

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 7/16/07

Printed Name/Title: Dustin L. Campbell / EHS Specialist

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	**Process Facility Information:**
Compliance Officer: Barbara Thyrum Date: 7-19-07 Approved Rejected Approval Number: 2259	$70.00/drm $350.00/tote OSL

EPAHO103001070

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001071

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001072

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536
Phone: (281)-476-4534 Fax: (281)-476-4406

CES Environmental Services
4904 Griggs Rd
Houston, TX 77021

Phone: (713) 676-1460
Fax: (713) 676-1676

Attn: **Dana Carter**

- CERTIFICATE OF RESULTS -

MES Lab#: 7060791

Client Sample ID: Washbay Sludge
Extended ID: Kilgore Plant

Project#: VETCO GRAY

Sample Collect Date: 6/26/2007 @ 12:15:00 PM
Sample Receipt Date: 6/27/2007 @ 3:30:00 PM

Sample Type: Comp

Test Group / Method

TCLP Volatiles Method: SW-846 8260B	MDL	RL	Result	Units	Analyst: HDG Date / Time
Vinyl chloride	0.010	0.2	< 0.010	mg/L	6/29/2007 / 6:22 AM
1,1-Dichloroethene	0.005	0.7	< 0.005	mg/L	6/29/2007 / 6:22 AM
2-Butanone	0.050	200	< 0.050	mg/L	6/29/2007 / 6:22 AM
Chloroform	0.005	6	< 0.005	mg/L	6/29/2007 / 6:22 AM
Carbon tetrachloride	0.005	0.5	< 0.005	mg/L	6/29/2007 / 6:22 AM
1,2-Dichloroethane	0.005	0.5	< 0.005	mg/L	6/29/2007 / 6:22 AM
Benzene	0.005	0.5	< 0.005	mg/L	6/29/2007 / 6:22 AM
Trichloroethene	0.005	0.5	< 0.005	mg/L	6/29/2007 / 6:22 AM
Tetrachloroethene	0.005	0.7	< 0.005	mg/L	6/29/2007 / 6:22 AM
Chlorobenzene	0.005	100	< 0.005	mg/L	6/29/2007 / 6:22 AM
1,4-Dichlorobenzene	0.005	7.5	< 0.005	mg/L	6/29/2007 / 6:22 AM
Hexachlorobutadiene	0.005	0.5	< 0.005	mg/L	6/29/2007 / 6:22 AM

TCLP Semi-Volatiles Method: SW-846 8270C	MDL	RL	Result	Units	Analyst: TFR Date / Time
Pyridine	0.05	5	< 0.05	mg/L	6/30/2007 / 8:53 AM
1,4-Dichlorobenzene	0.05	7.5	< 0.05	mg/L	6/30/2007 / 8:53 AM
o-Cresol	0.05	200	< 0.05	mg/L	6/30/2007 / 8:53 AM
m+p-Cresol	0.05	200	< 0.05	mg/L	6/30/2007 / 8:53 AM
Hexachloroethane	0.05	3	< 0.05	mg/L	6/30/2007 / 8:53 AM
Nitrobenzene	0.05	2	< 0.05	mg/L	6/30/2007 / 8:53 AM
Hexachlorobutadiene	0.05	0.5	< 0.05	mg/L	6/30/2007 / 8:53 AM
2,4,6-Trichlorophenol	0.05	2	< 0.05	mg/L	6/30/2007 / 8:53 AM
2,4,5-Trichlorophenol	0.05	400	< 0.05	mg/L	6/30/2007 / 8:53 AM
2,4-Dinitrotoluene	0.05	0.13	< 0.05	mg/L	6/30/2007 / 8:53 AM
Hexachlorobenzene	0.05	0.13	< 0.05	mg/L	6/30/2007 / 8:53 AM
Pentachlorophenol	0.50	100	< 0.50	mg/L	6/30/2007 / 8:53 AM

- CERTIFICATE OF RESULTS -

MES Lab#: 7060791

Client Sample ID: Washbay Sludge **Project#:** VETCO GRAY
Extended ID: Kilgore Plant

Sample Collect Date: 6/26/2007 @ 12:15:00 PM **Sample Type:** Comp
Sample Receipt Date: 6/27/2007 @ 3:30:00 PM

TCLP Metals (8) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: HDGIL Date / Time
Arsenic	0.014	5	**0.019**	**mg/L**	7/2/2007 / 7:23 PM
Barium	0.0005	100	**2.44**	**mg/L**	7/2/2007 / 7:23 PM
Cadmium	0.002	1	**0.065**	**mg/L**	7/2/2007 / 7:23 PM
Chromium	0.002	5	**0.020**	**mg/L**	7/2/2007 / 7:23 PM
Lead	0.005	5	**0.288**	**mg/L**	7/2/2007 / 7:23 PM
Selenium	0.024	1	< 0.024	mg/L	7/2/2007 / 7:23 PM
Silver	0.002	5	**0.003**	**mg/L**	7/2/2007 / 7:23 PM

TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: AM Date / Time
Mercury	0.0002	0.2	< 0.0002	mg/L	6/28/2007 / 9:35 PM

Total Petroleum Hydrocarbons Solid Method: TNRCC 1005	MDL	Result	Units	Analyst: TFR Date / Time
C6 - C12 Hydrocarbons	4	**15**	**mg/kg**	6/30/2007 / 5:51 AM
>C12 - C28 Hydrocarbons	8	**6770**	**mg/kg**	6/30/2007 / 5:51 AM
>C28 - C36 Hydrocarbons	8	**6760**	**mg/kg**	6/30/2007 / 5:51 AM
Total TPH	20	**13500**	**mg/kg**	6/30/2007 / 5:51 AM

Reactivity, Recoverable Hydrogen Cyanide Method: 7.3.3.2	MDL	Result	Units	Analyst: CL Date / Time
Hydrogen Cyanide	0.25	< 0.25	mg/kg	6/28/2007 / 2:40 PM

Reactivity, Recoverable Hydrogen Sulfide Method: 7.3.4.2	MDL	Result	Units	Analyst: CL Date / Time
Hydrogen Sulfide	0.25	**36.0**	**mg/kg**	6/28/2007 / 2:05 PM

Corrosivity: pH Method: SW-846 9045	MDL	Result	Units	Analyst: CL Date / Time
pH		**8.59**		6/28/2007 / 8:50 AM

Ignitability Method: SW-846 1010	MDL	Result	Units	Analyst: DEB Date / Time
Flashpoint		**>150**	**deg F**	6/28/2007 / 10:30 AM

Flags: H: **Exceeds "High Limit"** L: **Below "Low Limit"** RL=**regulatory limit**

Friday, July 06, 2007

Holland D. Gilmore, Laboratory Director **Date**

EPAHO103001074

7060790 - 7060792

MERCURY ENVIRONMENTAL SERVICES
QA/QC REPORT

7060790
SURROGATE SPIKE RECOVERY FOR VOLATILES

	% REC
Dibromofluoromethane	93.3
Toluene-d8	94.5
4-Bromofluorobenzene	108.4

7060791
SURROGATE SPIKE RECOVERY FOR VOLATILES

	% REC
Dibromofluoromethane	94.8
Toluene-d8	95.5
4-Bromofluorobenzene	107.5

VOLATILES	MS %REC	MSD %REC	%RSD	CCV %REC	MB mg/L	LCS %REC	LCSD %REC	%RSD
Vinyl Chloride	108.2	94.6	3.4	96.1	< 0.010	107.4	106.8	0.1
1,1-Dichloroethene	99.0	91	2.1	88.4	< 0.005	100.4	98	0.6
2-Butanone	103.0	95.6	1.9	90.6	< 0.050	101.8	103.6	0.4
Chloroform	93.8	86	2.2	88.2	< 0.005	96.2	96.2	0.0
Carbon tetrachloride	107.4	94.8	3.1	96.2	< 0.005	111.4	109.2	0.5
1,2-Dichloroethane	91.4	85.8	1.6	88.8	< 0.005	94.6	93	0.4
Benzene	99.4	94	1.4	90.8	< 0.005	97.8	95.6	0.6
Trichloroethene	96.8	88.6	2.2	90.2	< 0.005	98.8	99.6	0.2
Tetrachloroethene	100.0	91.4	2.2	87.7	< 0.005	139.0	98.8	8.5
Chlorobenzene	94.2	86.2	2.2	92	< 0.005	100.4	96.6	1.0
1,4-Dichlorobenzene	89.0	78.4	3.2	88.6	< 0.005	96.6	93.6	0.8
Hexachlorobutadiene	69.0	56.4	5.0	86	< 0.005	99.4	97	0.6

7060790
SURROGATE SPIKE RECOVERY FOR SEMIVOLATILES

	% REC
2-Fluorophenol	97.9
Phenol-d6	103.6
Nitrobenzene-d5	77.6
2-Fluorobiphenyl	74.1
2,4,6-Tribromophenol	66.3
p-Terphenyl-d14	82.0

7060791
SURROGATE SPIKE RECOVERY FOR SEMIVOLATILES

	% REC
2-Fluorophenol	82.8
Phenol-d6	103.5
Nitrobenzene-d5	89.2
2-Fluorobiphenyl	79.5
2,4,6-Tribromophenol	55.3
p-Terphenyl-d14	52.3

7060790 - 7060792
Page 3

QA/QC REPORT CONTINUED

ANALYTES	METHOD TPH1005	MB mg/kg	CCV %REC	MS %REC	MSD %REC
C6-C12		< 4	91.5	101.5	95.1
C12-C28		< 8	95.0	107.9	100.4

ANALYTES	METHOD 8021B	MB mg/L	MS %REC	MSD %REC	RPD	STD %REC
Benzene		< 0.005	90.8	91.0	0.22	89.6
Toluene		< 0.005	100.0	101.0	1.00	98.9
Ethylbenzene		< 0.005	99.8	104.0	4.12	99.7
m+p Xylene		< 0.005	102.0	112.0	9.35	110.3
o-Xylene		< 0.005	97.3	108.0	10.42	103.2

SURROGATE SPIKE RECOVERY FOR BTEX	% REC
4-Bromofluorobenzene	95.6

Standards Utilized:

BTEX: 5-point calibration utilizing working standards derived from neat solution of benzene, toluene, ethylbenzene, m-xylene, p-xylene and o-xylene.

Key to QA Abbreviations

MS=Matrix Spike
RPD=Relative Percent Deviation
LCS=Laboratory Control Standard
CCB=Continuing Calibration Blank
MDL=Minimum Detection Limit
MSD=Matrix Spike Duplicate
MB=Method Blank
CCV=Continuing Calibration Verification
%Rec=Percent Recovery
RL=Regulatory Limit

Signature: _____
Holland D. Gilmore / Laboratory Director

July 6, 2007

MES - CHAIN OF CUSTODY

Mercury Environmental Services
6913 Hwy. 225 • Deer Park, TX 77536
1-800-771-4MES
(281) 476-4534
Fax (281)-476-4406

1

COMPANY NAME: (BILL TO:) CES Environmental Services
COMPANY ADDRESS: 4904 Griggs Road
CITY Houston STATE TX ZIP 77021
CONTACT PERSON'S NAME: Dana Carter
CONTACT PERSON'S PHONE: 713-748-9804 FAX #: 713-676-1676

2

YOUR PROJECT NO.: Veteo Gray
YOUR P.O. #:
YOUR PROJECT NAME: Kilgore Plant
PROJECT ADDRESS:

3

4 PARAMETERS FOR ANALYSIS

YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATRIX	TCLP Vol	TCLP Semi-Vol	TCLP 11 metals	TCLP 8 metals	TPH	RCI	BTEX	NUMBER OF CONTAINERS	PRESERVATIONS
Paint Booth Filters	Comp	6/26	1215p		X	X	X		X				
Washbay Sludge	Comp	6/26	1215p		X	X		X	X	X			
Contaminated Soil	Comp	6/26	1215p					X			X		

5 REMARKS
TURNAROUND TIME

DETECTION LIMITS
SPECIAL LIMITS REQUIRED
Yes No
Please circle one, if Yes, please describe below or include separate sheet detailing requirements.

on ice 12°

6

PERSON TAKING SAMPLE SIGNATURE (a. - Print Name & b. - Sign.): a. Dana Carter b. Dana Carter
RELINQUISHED BY: (Signature) Dana Carter DATE 6/27 TIME 330p RECEIVED BY: (Signature) Janette Buck

7

RELINQUISHED BY: (Signature) DATE TIME RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE TIME RECEIVED BY: (Signature)

METHOD OF PAYMENT
SHIPPED BY: (Signature)
COURIER (Signature)
RECEIVED FOR MES BY: (Signature) Janette Buck DATE 6/27/07 TIME 15:30

8

Sample Remainder Disposal
☐ Return Sample Remainder To Client Via
☐ I Request Lab To Dispose Of All Sample Remainders
(Signature) (Date)

Form # MES - CCRI

WHITE & CANARY – Shipped with Sample PINK – Retained by Customer WHITE – Returned with Report

2261

VETCO GRAY <2261>

EPAHO103001078

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **7/30/2007**

Dear **Brian Marcantel**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2261

Generator: Vetco Gray - Kilgore
Address: 4308 State Highway 42
Kilgore, TX 75662

Waste Information

Name of Waste: Paint booth filters
TCEQ Waste Code #: 00103101
Container Type:
Detailed Description of Process Generating Waste:
Spent filters from paint booth operations
Color: varies **Odor:** none **pH:** neutral
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
standard

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DC

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Vetco Gray Inc		
Address:	4308 State Highway 42		
City, State, Zip:	Kilgore, TX 75662		
Contact:	Brian Mercantel	**Title:**	District Manager
Phone No:	903-984-2940	**Fax No:**	903-984-4090
24/hr Phone:			
U.S. EPA I.D. No:	TXR000040659		
State I.D.	86635	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Paint Booth Filters
Detailed Description of Process Generating Waste: Spent filters from paint booth operations

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: varies **Odor:** none

Specific Gravity (water=1): NA **Density:** NA lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☒	**Drum**	☐	**Tote**	☐ **Truck**	☐	**Other (explain)**
Container Size:		55 gal		____	____		____

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 5 **Other:** ____
Texas State Waste Code No: 00103101
Proper U.S. DOT Shipping Name: Non RCRA Non DOT Regulated Material

Class:	NA	**UN/NA:**	NA	**PG:**	NA	**RQ:**	NA

Flash Point >150	**pH** neutral	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 100%
Oil&Grease >1500mg/l	**TOC** 0mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

EPAHO103001080

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Paint filters	95-100	%
Inert dried paint solids	0-5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Analytical 7060790

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ____
TCLP Volatiles: ____
TCLP Semi-Volatiles: ____
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 7-25-07

Printed Name/Title: Dustin L. Campbell EHS Specialist

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	**Process Facility Information:**
Compliance Officer: [signature] Date: 7-30-07 (Approved) Rejected Approval Number: 2261	Platinum IS

EPAHO103001081

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001082

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001083

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536
Phone: (281)-476-4534 Fax: (281)-476-4406

CES Environmental Services
4904 Griggs Rd
Houston, TX 77021

Phone: (713) 676-1460
Fax: (713) 676-1676

Attn: **Dana Carter**

- CERTIFICATE OF RESULTS -

MES Lab#: 7060790

Client Sample ID: Paint Booth Filters
Extended ID: Kilgore Plant

Project#: VETCO GRAY

Sample Collect Date: 6/26/2007 @ 12:15:00 PM
Sample Receipt Date: 6/27/2007 @ 3:30:00 PM

Sample Type: Comp

Test Group / Method

TCLP Volatiles Method: SW-846 8260B	MDL	RL	Result	Units	Analyst: HDG Date / Time
Vinyl chloride	0.010	0.2	< 0.010	mg/L	6/29/2007 / 6:57 AM
1,1-Dichloroethene	0.005	0.7	< 0.005	mg/L	6/29/2007 / 6:57 AM
2-Butanone	0.050	200	< 0.050	mg/L	6/29/2007 / 6:57 AM
Chloroform	0.005	6	< 0.005	mg/L	6/29/2007 / 6:57 AM
Carbon tetrachloride	0.005	0.5	< 0.005	mg/L	6/29/2007 / 6:57 AM
1,2-Dichloroethane	0.005	0.5	< 0.005	mg/L	6/29/2007 / 6:57 AM
Benzene	0.005	0.5	< 0.005	mg/L	6/29/2007 / 6:57 AM
Trichloroethene	0.005	0.5	< 0.005	mg/L	6/29/2007 / 6:57 AM
Tetrachloroethene	0.005	0.7	< 0.005	mg/L	6/29/2007 / 6:57 AM
Chlorobenzene	0.005	100	< 0.005	mg/L	6/29/2007 / 6:57 AM
1,4-Dichlorobenzene	0.005	7.5	< 0.005	mg/L	6/29/2007 / 6:57 AM
Hexachlorobutadiene	0.005	0.5	< 0.005	mg/L	6/29/2007 / 6:57 AM

TCLP Semi-Volatiles Method: SW-846 8270C	MDL	RL	Result	Units	Analyst: TFR Date / Time
Pyridine	0.05	5	< 0.05	mg/L	6/30/2007 / 8:02 AM
1,4-Dichlorobenzene	0.05	7.5	< 0.05	mg/L	6/30/2007 / 8:02 AM
o-Cresol	0.05	200	< 0.05	mg/L	6/30/2007 / 8:02 AM
m+p-Cresol	0.05	200	< 0.05	mg/L	6/30/2007 / 8:02 AM
Hexachloroethane	0.05	3	< 0.05	mg/L	6/30/2007 / 8:02 AM
Nitrobenzene	0.05	2	< 0.05	mg/L	6/30/2007 / 8:02 AM
Hexachlorobutadiene	0.05	0.5	< 0.05	mg/L	6/30/2007 / 8:02 AM
2,4,6-Trichlorophenol	0.05	2	< 0.05	mg/L	6/30/2007 / 8:02 AM
2,4,5-Trichlorophenol	0.05	400	< 0.05	mg/L	6/30/2007 / 8:02 AM
2,4-Dinitrotoluene	0.05	0.13	< 0.05	mg/L	6/30/2007 / 8:02 AM
Hexachlorobenzene	0.05	0.13	< 0.05	mg/L	6/30/2007 / 8:02 AM
Pentachlorophenol	0.50	100	< 0.50	mg/L	6/30/2007 / 8:02 AM

EPAHO103001084

- CERTIFICATE OF RESULTS -

MES Lab#: 7060790

Client Sample ID: Paint Booth Filters **Project#:** VETCO GRAY
Extended ID: Kilgore Plant

Sample Collect Date: 6/26/2007 @ 12:15:00 PM **Sample Type:** Comp
Sample Receipt Date: 6/27/2007 @ 3:30:00 PM

TCLP Metals (11) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: HDGIL Date / Time
Antimony	0.032	1	**0.041**	mg/L	7/2/2007 / 7:41 PM
Arsenic	0.014	5	**0.051**	mg/L	7/2/2007 / 7:41 PM
Barium	0.0005	100	**0.0298**	mg/L	7/2/2007 / 7:41 PM
Beryllium	0.0005	0.08	**0.0032**	mg/L	7/2/2007 / 7:41 PM
Cadmium	0.002	1	**0.204**	mg/L	7/2/2007 / 7:41 PM
Chromium	0.002	5	**0.080**	mg/L	7/2/2007 / 7:41 PM
Lead	0.005	5	**2.88**	mg/L	7/2/2007 / 7:41 PM
Nickel	0.003	70	**0.042**	mg/L	7/2/2007 / 7:41 PM
Selenium	0.024	1	< 0.024	mg/L	7/2/2007 / 7:41 PM
Silver	0.002	5	< 0.002	mg/L	7/2/2007 / 7:41 PM

TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: AM Date / Time
Mercury	0.0002	0.2	< 0.0002	mg/L	6/28/2007 / 10:00 PM

Total Petroleum Hydrocarbons Solid Method: TNRCC 1005	MDL	Result	Units	Analyst: TFR Date / Time
C6 - C12 Hydrocarbons	4	**450**	mg/kg	6/30/2007 / 2:03 AM
>C12 - C28 Hydrocarbons	8	**1060**	mg/kg	6/30/2007 / 2:03 AM
>C28 - C36 Hydrocarbons	8	**297**	mg/kg	6/30/2007 / 2:03 AM
Total TPH	20	**1810**	mg/kg	6/30/2007 / 2:03 AM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Friday, July 06, 2007

Holland D. Gilmore, Laboratory Director **Date**

EPAHO103001085

7060790 - 7060792

MERCURY ENVIRONMENTAL SERVICES
QA/QC REPORT

7060790

SURROGATE SPIKE RECOVERY FOR VOLATILES	% REC
Dibromofluoromethane	93.3
Toluene-d8	94.5
4-Bromofluorobenzene	108.4

7060791

SURROGATE SPIKE RECOVERY FOR VOLATILES	% REC
Dibromofluoromethane	94.8
Toluene-d8	95.5
4-Bromofluorobenzene	107.5

VOLATILES	MS %REC	MSD %REC	%RSD	CCV %REC	MB mg/L	LCS %REC	LCSD %REC	%RSD
Vinyl Chloride	108.2	94.6	3.4	96.1	< 0.010	107.4	106.8	0.1
1,1-Dichloroethene	99.0	91	2.1	88.4	< 0.005	100.4	98	0.6
2-Butanone	103.0	95.6	1.9	90.6	< 0.050	101.8	103.6	0.4
Chloroform	93.8	86	2.2	88.2	< 0.005	96.2	96.2	0.0
Carbon tetrachloride	107.4	94.8	3.1	96.2	< 0.005	111.4	109.2	0.5
1,2-Dichloroethane	91.4	85.8	1.6	88.8	< 0.005	94.6	93	0.4
Benzene	99.4	94	1.4	90.8	< 0.005	97.8	95.6	0.6
Trichloroethene	96.8	88.6	2.2	90.2	< 0.005	98.8	99.6	0.2
Tetrachloroethene	100.0	91.4	2.2	87.7	< 0.005	139.0	98.8	8.5
Chlorobenzene	94.2	86.2	2.2	92	< 0.005	100.4	96.6	1.0
1,4-Dichlorobenzene	89.0	78.4	3.2	88.6	< 0.005	96.6	93.6	0.8
Hexachlorobutadiene	69.0	56.4	5.0	86	< 0.005	99.4	97	0.6

7060790

SURROGATE SPIKE RECOVERY FOR SEMIVOLATILES	% REC
2-Fluorophenol	97.9
Phenol-d6	103.8
Nitrobenzene-d5	77.6
2-Fluorobiphenyl	74.1
2,4,6-Tribromophenol	66.3
p-Terphenyl-d14	82.0

7060791

SURROGATE SPIKE RECOVERY FOR SEMIVOLATILES	% REC
2-Fluorophenol	82.8
Phenol-d6	103.5
Nitrobenzene-d5	89.2
2-Fluorobiphenyl	79.5
2,4,6-Tribromophenol	55.3
p-Terphenyl-d14	52.3

7060790 - 7060792
Page 3

QA/QC REPORT CONTINUED

ANALYTES	METHOD TPH1005	MB mg/kg	CCV %REC	MS %REC	MSD %REC
C6-C12		< 4	91.5	101.5	95.1
C12-C28		< 8	95.0	107.9	100.4

ANALYTES	METHOD 8021B	MB mg/L	MS %REC	MSD %REC	RPD	STD %REC
Benzene		< 0.005	90.8	91.0	0.22	89.6
Toluene		< 0.005	100.0	101.0	1.00	98.9
Ethylbenzene		< 0.005	99.8	104.0	4.12	99.7
m+p Xylene		< 0.005	102.0	112.0	9.35	110.3
o-Xylene		< 0.005	97.3	108.0	10.42	103.2

SURROGATE SPIKE RECOVERY FOR BTEX	% REC
4-Bromofluorobenzene	95.6

Standards Utilized:

BTEX: 5-point calibration utilizing working standards derived from neat solution of benzene, toluene, ethylbenzene, m-xylene, p-xylene and o-xylene.

Key to QA Abbreviations

MS=Matrix Spike
RPD=Relative Percent Deviation
LCS=Laboratory Control Standard
CCB=Continuing Calibration Blank
MDL=Minimum Detection Limit
MSD=Matrix Spike Duplicate
MB=Method Blank
CCV=Continuing Calibration Verification
%Rec=Percent Recovery
RL=Regulatory Limit

Signature: _____
Holland D. Gilmore / Laboratory Director

July 6, 2007

MES - CHAIN OF CUSTODY

1-800-771-4MES
(281) 476-4534
Mercury Environmental Services
6913 Hwy. 225 • Deer Park, TX 77536
Fax (281)-476-4406

1
COMPANY NAME: (BILL TO:) CES Environmental Services
COMPANY ADDRESS: 4904 Griggs Road
CITY Houston STATE TX ZIP 77021
CONTACT PERSON'S NAME: Dana Carter
CONTACT PERSON'S PHONE: 713-748-9804 FAX #: 713-676-1676

2
YOUR PROJECT NO.: Vetco Gray | YOUR P.O. #: | YOUR PROJECT NAME: Kilgore Plant
PROJECT ADDRESS:

4 PARAMETERS FOR ANALYSIS

YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATRIX	TCLP VOL	TCLP Semi-Vol	TCLP 8 Metals	TPH	RCI	BTEX	NUMBER OF CONTAINERS	PRESERVATIONS
Paint Booth Filters	Comp Grab	6/26	1215p		X	X	X	X				
Wash bay Sludge	Comp	6/26	1215p		X	X	X	X	X			
Contaminated Soil	Comp	6/26	1215p				X			X		

3

5 REMARKS
TURNAROUND TIME
DETECTION LIMITS SPECIAL LIMITS REQUIRED
Yes No
Please circle one. If Yes, please describe below or include separate sheet detailing requirements.

10 on ice

6
PERSON TAKING SAMPLE SIGNATURE (a. - Print Name & b. - Sign.): a. Dana Carter b. Dana Carter
RELINQUISHED BY: (Signature) Dana Carter DATE 6/27 TIME 330p RECEIVED BY: (Signature)

7
RELINQUISHED BY: (Signature) | DATE | TIME | RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) | DATE | TIME | RECEIVED BY: (Signature)

METHOD OF PAYMENT | SHIPPED BY: (Signature) | COURIER (Signature) | RECEIVED FOR MES BY: (Signature) | DATE | TIME 15:30

8
Sample Remainder Disposal
☐ Return Sample Remainder To Client Via _____
☐ I Request Lab To Dispose Of All Sample Remainders
(Signature) _____ (Date) _____

Form # MES - CCRI

WHITE & CANARY – Shipped with Sample PINK – Retained by Customer WHITE – Returned with Report

EPAHO103001088

2262

CITY OF McAllen (2262)

EPAHO103001089

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **7/25/2007**

Dear **Vince Remero**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2262

Generator: City of McAllen
Address: 4201 N Bentsen Road
McAllen, TX 78504

Waste Information

Name of Waste: Unused CRS-2P
TCEQ Waste Code #: CESQ4091
Container Type:
Detailed Description of Process Generating Waste:
Unused product (hardened) in drums.
Color: Black **Odor:** Asphalt **pH:** na
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
none

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	City of Mcallen Public Works		
Address:	4201 North Bentsen		
City, State, Zip:	McAllen, TX 78504		
Contact:	~~Victor~~ Remero Vince	**Title:**	
Phone No:	956-279-6403	**Fax No:**	956-681-4035
24/hr Phone:	956-279-6403		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Unused CRS-2P
Detailed Description of Process Generating Waste: Unused product (Hardened) in drums.

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: Black **Odor:** Asphalt

Specific Gravity (water=1): .9-1.1 **Density:** 8.34 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☒	**Drum**	☐ **Tote**	☐	**Truck**	☐	**Other (explain)**
Container Size:		55 Gal	____		____		____

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 23 **Other:** ____
Texas State Waste Code No: CESQ 4091
Proper U.S. DOT Shipping Name: Non-RCRA, Non-Hazardous Waste Asphalt
Class: Na **UN/NA:** Na **PG:** Na **RQ:** Na

Flash Point >200	**pH** Na	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 100%
Oil&Grease >1500mg/l	**TOC** Namg/l	**Zinc** Namg/l	**Copper** Namg/l	**Nickel** Namg/l

EPAHO103001091

SECTION 4: Physical and Chemical Data

Composition of Waste	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Unused CRS-2P (Asphalt- Hardened)	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
None

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS Sheets

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	X
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: X [signature] Date: 08/12/07

Printed Name/Title: X CARLOS A. SANCHEZ

Requisition # 109061

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information:
Compliance Officer: [signature]	05
Date: 7-25-07 Approved Rejected	Trans $95.00
Approval Number: 2262	Disposal $ Sold
	FSC $175.00

EPAHO103001092

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001093

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001094

Phone 956-279-4483
Fax 956-681-4035

CES
+ Freight
713-854-6150
Dan Boman

FAX #
713-676-1676

CRS-2P
Material Safety Data Sheet

MARTIN ASPHALT COMPANY

Manufacturer's Name:	Martin Asphalt Company	Date: December, 2006	
Telephone Number:	800-662-0987	Address: 300 Christy Place	
For Emergency Assistance Call: (713) 941-4410		South Houston, TX 7758	

NFPA HAZARD IDENTIFICATION	DEGREE OF HAZARD	HAZARD RATINGS
	HEALTH: 1 FIRE: 0 REACTIVITY: 0	0= LEAST 1= SLIGHT 2= MODERATE 3= HIGH 4= EXTREME

SECTION 1 - COMPONENT DATA	
PRODUCT NAME:	CRS-2h, CRS-2, CRS-2p, CSS-1 and CRS-1p EMULSION
COMMON NAME	ASPHALT EMULSION, BITUMEN
CHEMICAL NAME	PETROLEUM HYDROCARBON

SECTION 2 - PHYSICAL DATA	
C.A.S. NUMBER:	8052-42-4
BOILING POINT (F):	212°
SPECIFIC GRAVITY (H20=1):	1.01
MELTING POINT:	N.A. °f
VAPOR PRESSURE:	(mmHg@20°C): N/A
PERCENT VOLATILE:	0
VAPOR DENSITY (AIR=1):	N/A
EVAPORATIVE RATE (EE=1):	N/A
SOLUBILITY IN WATER:	SOLUBLE
APPEARANCE AND ODOR:	BROWN LIQUID, FAINT PETROLEUM ODOR

SECTION 3 - FIRE & EXPLOSION DATA	
FLASH POINT (°F) & METHOD:	N/A
FLAMMABILITY LIMITS:	LOWER: N.A. UPPER: N.A.
AUTO IGNITION TEMPERATURE (F):	UNKNOWN
EXTINGUISHING MEDIA	USE DRY CHEMICAL, FOAM OR CARBON DIOXIDE.
SPECIAL FIRE FIGHTING PROCEDURES	WATER MAY BE INEFFECTIVE BUT CAN BE USED TO CO L CONTAINERS EXPOSED TO HEAT OR FLAME. CAUTION : HOULD BE EXERCISED WHEN USING WATER OR FOAM AS FROTHI IG MAY OCCUR, ESPECIALLY IF SPRAYED INTO CONTAINERS O HOT, BURNING LIQUID.
UNUSUAL FIRE AND EXPLOSIVE CONDITIONS	DENSE SMOKE MAY BE GENERATED WHILE BURNING. (ARBON MONOXIDE, CARBON DIOXIDE AND OTHER OXIDES MA BE GENERATED AS PRODUCTS OF COMBUSTION.

*NA=NOT APPLICABLE **ND=NOT DETERMINED

Sandra McAllen, Tx

SECTION 4 - REACTIVITY DATA	
STABILITY: STABLE	CONDITIONS TO AVOID: NONE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR	
INCOMPATIBILITY MATERIALS TO AVOID:	DO NOT ALLOW HOT MOLTEN PRODUCT TO CONTACT WATER OR LIQUIDS AS THIS CAN CAUSE VIOLENT ERUPTIONS. MAY REACT WITH STRONG OXIDIZING AGENTS.
HAZARDOUS DECOMPOSITION PRODUCTS:	CO, CO2, OXIDES OF SULFUR AND VARIOUS HYDROCARBONS.

SECTION 5 - HEALTH HAZARD DATA	
SKIN CONTACT:	ACUTE: PROLONGED OR REPEATED CONTACT WITH COOLED MATERIAL MAY CAUSE DERMATITIS. CONTACT WITH HOT MATERIAL WILL CAUSE THERMAL BURNS. EXPOSURE TO ASPHALT FUMES INCREASES SENSITIVITY TO SUNBURN. CHRONIC: MOUSE SKIN PAINTING STUDIES GIVE EVIDENCE OF SKIN CANCER.
EYE CONTACT:	ACUTE: FUMES FROM HEATED MATERIAL WILL CAUSE IRRITATION. CHRONIC: NONE KNOWN.
INHALATION:	ACUTE: UPPER RESPIRATORY TRACT (NOSE AND THROAT) IRRITATION. MAY CAUSE NAUSEA OR DIZZINESS. CHRONIC: THERE ARE NO STUDIES TO INDICATE THAT ASPHALT CAUSES CANCER OR RESPIRATORY DAMAGE IN MAN. THIS PETROLEUM BASED ASPHALT PRODUCT CONTAINS A SMALL AMOUNT OF POLYAROMATIC HYDROCARBONS WHICH HAVE BEEN SHOWN TO CAUSE CANCER AND RESPIRATORY DAMAGE IN LABORATORY ANIMALS.
HAZARDOUS INGREDIENT: ASPHALT FUME	EXPOSURE LIMITS
OSHA PEL (mg/M^3)	NONE ESTABLISHED
ACGIH TLV (mg/M^3)	5 mg/M3
OTHER RECOMMENDED SOURCE	
HAZARDOUS INGREDIENT: ASPHALT	CARCINOGENICITY
NTP LISTED	NO
IARC LISTED	YES
OSHA REGULATED	NO

SECTION 6 - EMERGENCY AND FIRST AID PROCEDURES	
EYE CONTACT	IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER AND SEEK MEDICAL ATTENTION. IF MATERIAL IS HOT, TREAT FOR THERMAL BURNS AND TAKE VICTIM TO HOSPITAL IMMEDIATELY.
SKIN CONTACT	IF MATERIAL IS HOT, SUBMERGE INJURED AREA IN COLD WATER. IF VICTIM IS SEVERELY BURNED, REMOVE TO A HOSPITAL IMMEDIATELY. IF COOL ASPHALT CONTACTS SKIN, WASH THE AREA WITH HOT SOAPY WATER. USE OF A WATERLESS HAND CLEANER WILL HELP TO REMOVE THE ASPHALT.
INHALATION	REMOVE INDIVIDUAL TO FRESH AIR. IF IRRITATION PERSISTS, ADMINISTER OXYGEN AND SEEK MEDICAL ATTENTION.
INGESTION	DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION.

*NA=NOT APPLICABLE **ND=NOT DETERMINED

EPAHO103001096

SECTION 7 - PERSONAL HEALTH PROTECTION INFORMATION	
EYE PROTECTION	EYE PROTECTION IS NOT REQUIRED UNDER CONDITIONS OF N ORMAL USE. IF MATERIAL IS HANDLED SUCH THAT IT COULD BE SPLASHED INTO EYES, WEAR PLASTIC FACE SHIELD OR SPLASH-PROOF SAFETY GOGG ES.
SKIN PROTECTION	LONG SLEEVED SHIRT AND LONG PANTS (BOOTS, GLOVES, API ONS, ETC.) OVER PARTS OF THE BODY SUBJECT TO EXPOSURE. IF HANDLI IG HOT MATERIAL, USE INSULATED PROTECTIVE CLOTHING (BOOTS, G OVES, APRONS, ETC.).
RESPIRATORY PROTECTION	RESPIRATORY PROTECTION IS NOT REQUIRED UNDER CONDITI ONS OF NORMAL USE. IF VAPOR OR MIST IS GENERATED WHEN THE MA TERIAL IS HEATED OR HANDLED OR FUMES EXCEED 5 mg3/M USE AN ORG ANIC VAPOR RESPIRATOR WITH A DUST AND MIST FILTER. ALL RESPIRATOR S MUST BE NIOSH CERTIFIED. DO NOT USE COMPRESSED OXYGEN IN HYD OCARBON ATMOSPHERES.
VENTILATION	IF VAPOR OR MIST IS GENERATED WHEN THE MATERIAL IS HEA TED OR HANDLED, ADEQUATE VENTILATION IN ACCORDANCE WITH GO D ENGINEERING PRACTICE MUST BE PROVIDED TO MAINTAIN CONCENTRATIONS BELOW THE SPECIFIED EXPOSURE OR FLAMI ABLE LIMITS.
OTHER	CONSUMPTION OF FOOD AND BEVERAGES SHOULD BE AVOIDED IN WORK AREAS WHERE HYDROCARBONS ARE PRESENT. ALWAYS WASH H ANDS AND FACE WITH SOAP AND WATER BEFORE EATING, DRINKING, OR S MOKING.

SECTION 8 - SPILL, LEAK & DISPOSAL PROCEDURES	
STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED	CONSULT HEALTH HAZARD DATA IN SECTION 5, PERSONAL HEA TH PROTECTION INFORMATION IN SECTION 7, FIRE & EXPLOSION D ATA IN SECTION 3, AND REACTIVITY DATA IN SECTION 4. NOTIFY APPR OPRIATE AUTHORITIES OF SPILL. CONTAIN SPILL IMMEDIATELY. DO NOT LLOW SPILL TO ENTER SEWERS OR WATERCOURSES. REMOVE ALL SOU RCES OF IGNITION. ABSORB WITH APPROPRIATE INERT MATERIAL SUCH A S SAND, CLAY, ETC. LARGE SPILLS MAY BE PICKED UP USING VACUUM PU MPS, SHOVELS, BUCKETS OR OTHER MEANS AND PLACED IN DRUMS O R OTHER SUITABLE CONTAINERS.
WASTE DISPOSAL METHOD	ALL DISPOSALS MUST COMPLY WITH FEDERAL, STATE, AND LOC L REGULATIONS. THE MATERIAL, IF SPILLED OR DISCARDED, MAY BE A REGULATED WASTE. REFER TO STATE AND LOCAL REGULATIONS CAUTION! IF REGULATED SOLVENTS ARE USED TO CLEAN UP SPILLED MATE RIAL, THE RESULTING WASTE MIXTURE MAY BE REGULATED. DEPARTMENT OF TRANSPORTATION (DOT) REGULATIONS MAY APPLY FOR TRANSPO RTING THIS MATERIAL WHEN SPILLED. WASTE MATERIAL MAY BE LANDF ILLED OR INCINERATED AT AN APPROVED FACILITY. MATERIALS SHOULD B E RECYCLED IF POSSIBLE.

SECTION 9 - SPECIAL PRECAUTIONS/ADDITIONAL INFORMATION	
HANDLING AND STORAGE * REQUIREMENTS	DO NOT TRANSFER TO UNMARKED CONTAINERS. STORE IN CLOS D CONTAINERS AWAY FROM HEAT, SPARKS, OPEN FLAME, OR OXID ZING MATERIALS. THIS PRODUCT IS NOT CLASSIFIED AS HAZARDOUS UNDER DOT REGULATIONS. FIRE EXTINGUISHERS SHOULD BE KEPT READILY VAILABLE. SEE NFPA 30 AND OSHA 1910.106 FLAMMABLE AND COMBUSTIBL LIQUIDS.
ADDITIONAL INFORMATION	NONE.

The information contained herein is based on the data available to us and is believed to be correct. However, Martin Asphalt Company makes no warranty, expressed or implied regarding the accuracy of this data or the results to be obtain d from the use thereof. This information and product is furnished on the condition that the person receiving them shall m ke their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of use thereof.

*NA=NOT APPLICABLE **ND=NOT DETERMINED

EPAHO103001097

QUALITY VALVE and MACHINE 2263
2263

EPAHO10300109

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **8/2/2007**

Dear **Zac or Dave**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2263

Generator: Quality Valve and Machine Works
Address: 233 East FM 2821
Hunstville, TX 77320

Waste Information

Name of Waste: Recyclable coolant and oil mixutre
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Coolant and oil mixture from machining new valve parts for petroleum industry
Color: cloudy to brown **Odor:** none **pH:** 4-10
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

after Dan

DB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Quality Valve and Machine Works		
Address:	233 East FM 2821		
City, State, Zip:	Huntsville, TX 77320		
Contact:	Kenneth Stevens	Title:	Quality Assurance
Phone No:	936-291-8146	Fax No:	936-291-8020
24/hr Phone:			
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	SIC Code:	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	CKG Services		
Address:	10707 Honea Egypt Road		
City, State, Zip:	Montgomery, TX 77316		
Contact:	Zac	Title:	President
Phone No:	936-483-3662	Fax No:	936-483-3674

SECTION 3: General Description of the Waste

Name of Waste: Recyclable Coolant and Oil Mixture
Detailed Description of Process Generating Waste: Coolant and Oil Mixture from machining new valve parts for petroleum industry.

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Cloudy to brown **Odor:** None

Specific Gravity (water=1): .9-1.2 **Density:** 8.3 lbs/gal

Layers: ☐ Single-phase ☒ Multi-phase

Container Type:	☐ Drum	☐ Tote	☒ Truck	☐ Other (explain)
Container Size:	____	____	2-5000	____

Frequency: ☐ Weekly ☒ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: Recycled
Proper U.S. DOT Shipping Name: Recyclable Coolant and Oil Mixture
Class: Na **UN/NA:** Na **PG:** Na **RQ:** Na

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>160	4-10	0mg/l	0mg/l	0-3%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	18-20000mg/l	.021mg/l	1.42mg/l	.975mg/l

1

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SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Neo-Bynthetic Cutting Fluid	25-50	%
Crown Tech G-88	3-10	%
Water	25-50	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
In House Test Reults Sample #194

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and ~~that all known~~ or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 07/23/07

Printed Name/Title: Zae McNaughan - President

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: [signature]	**Process Facility Information:** Recycle Trans $69/hr Disposal .21/gal Chlor-D Tect
Date: 7-24-07 Approved Rejected	
Approval Number: 2263	

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☒ Used oils
- ☒ Oil-water emulsions or mixtures
- ☒ Lubricants
- ☒ Coolants
- ☒ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

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(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 6.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☑ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

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FILE NO.: 3310-000
MSDS DATE: 2/19/2007

FLUIDS, INC.

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	EPF
GENERIC NAME:	Neo-Synthetic Cutting Fluid
PRODUCT CODES:	3310-000
MANUFACTURER:	Precison Fluids, Inc.
ADDRESS:	5230 Brittmoore Rd, Houston, TX 77041
EMERGENCY PHONE:	713-896-0606
OTHER CALLS:	713-896-0606
FAX PHONE:	713-896-0610
CHEMICAL FAMILY:	N/A
CHEMICAL FORMULA:	N/A
PROPER SHIPPING NAME:	Lubricant Compound NOI
HAZARD CLASS:	NON REGULATED
PREPARED BY:	Precision Fluids, Inc.

Health	1
Flammability	0
Reactivity	0
Maximum Personal Protection	J

SECTION 1 NOTES:

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT:

CAS NO.	% WT	% VOL	SARA 313 REPORTABLE
	ppm	mg/m3	

OSHA PEL-TWA:
OSHA PEL STEL:
OSHA PEL CEILING:

ACGIH TLV-TWA:
ACGIH TLV STEL:
ACGIH TLV CEILING:

SECTION 2 NOTES:
This product contains no ingredients that are considered hazardous under 29 CFR 1910.1200. Full disclosure is available upon request.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:
CAUTION! MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION. Avoid contact with eyes, skin and clothing. Avoid breathing airborne product. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Dike and contain spills. Keep out of sewers and waterways. No significant immediate hazards for emergency response personnel are known.

ROUTES OF ENTRY:
Inhalation. Skin and/or eye contact.

ACUTE EFFECTS:

INHALATION: Maybe irritating to the respiratory tract if inhaled

INGESTION: May cause gastric distress, nausea and vomiting if ingested.

SKIN: Maybe irritating to the skin.

EYES: Maybe irritating to the eyes.

CHRONIC EFFECTS; CARCINOGENICITY:
IARC: Not listed OSHA: Not regulated. NTP: Not listed

ROUTE OF ENTRY:

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Inhalation. Skin and/or eye contact.

TARGET ORGANS:
Respiratory system, lungs. Skin. Eyes.

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

GENERAL:
Persons seeking medical attention should carry a copy of this MSDS with them.

INHALATION:
Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Get medical attention.

INGESTION:
Drink a couple of glasses water or milk. Do NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. Get medical attention.

SKIN:
Wash skin thoroughly with soap and water. Remove contaminated clothing. Get medical attention if any discomfort continues.

EYES:
Promptly wash eyes with lots of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

SECTION 4 NOTES:

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT (° F):	N/A	**METHOD:** TCC
AUTO IGNITION TEMP. (° F):	N/D	
FLAMMABILITY LIMIT -LOWER(%):	N/A	
FLAMMABILITY LIMIT -UPPER(%):	N/A	

EXTINGUISHING MEDIA:
Carbon dioxide (CO2). Dry chemicals.

SPECIAL FIRE FIGHTING PROCEDURES:
Not Flammable

UNUSUAL FIRE & EXPLOSION HAZARDS:
Drums heated by fire may explode.

SECTION 5 NOTES:

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:
Wear proper personal protective equipment (see MSDS Section 8).

SPILL CLEAN-UP PROCEDURES:
Absorb in vermiculite, dry sand or earth and place into containers. Rinse area with water. Dike far ahead of larger spills for later disposal. Do not contaminate drainage or waterways.

SECTION 6 NOTES:

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FLUIDS, INC.

SECTION 7: HANDLING AND STORAGE

HANDLING:
Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Wear full protective clothing for prolonged exposure and/or high concentrations. Eye wash and emergency shower must be available at the work place. Wash hands often and change clothing when needed.

STORAGE PRECAUTIONS:
Store at moderate temperatures in dry, well ventilated area. Keep in original container.

SECTION 7 NOTES:

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

PROTECTIVE EQUIPMENT:

ENGINEERING CONTROLS:
Use appropriate engineering controls such as, exhaust ventilation and process enclosure, to reduce air contamination and keep worker exposure below the applicable limits.

Ventilation:
Supply natural or mechanical ventilation adequate to exhaust airborne product and keep exposures below the applicable limits.

RESPIRATORS:
If exposed to particulates/aerosols:
Use at least a NIOSH-approved N95 half-mask disposable or reusable particulate respirator. In work environments containing oil mist/aerosol use at least a NIOSH-approved P95 half-mask disposable or reusable particulate respirator.
If exposed to organic vapors:
Use a NIOSH/MSHA-approved organic vapor respirator. CCROV: CCR with organic vapor cartridge.

PROTECTIVE GLOVES:
Chemical resistant gloves required for prolonged or repeated contact. Use protective gloves made of: impermeable material. Such as, Neoprene, nitrile, polyethylene or PVC.

EYE PROTECTION:
Wear chemical safety goggles where eye exposure is reasonably probable.

PROTECTIVE CLOTHING:
Wear appropriate clothing to prevent repeated or prolonged skin contact.

HYGIENIC WORK PRACTICES:
Wash promptly with soap and water if skin becomes contaminated Change work clothing daily if there is any possibility of contamination.

SECTION 8 NOTES:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Clear Blue Liquid
ODOR:	Light Industrial Chemical Scent
PHYSICAL STATE:	Liquid
pH AS SUPPLIED:	9.0+
BOILING POINT(° F):	212+
VAPOR PRESSURE (mmHg@68° F):	N/A

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VAPOR DENSITY (AIR = 1):	>1
SPECIFIC GRAVITY (H2O =1):	1.02
EVAPORATION RATE (H2O =1):	<1
PERCENT SOLUBILITY IN WATER:	100
PERCENT VOLATILE:	20

SECTION 9 NOTES:

SECTION 10: STABILITY AND REACTIVITY

STABILITY:
Normally stable.

CONDITIONS TO AVOID:
Avoid heat, sparks, and flame.

HAZARDOUS POLYMERIZATION:
Will not polymerize.

POLYMERIZATION DESCRIPTION:
Not relevant

MATERIALS TO AVOID:
Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS:
Carbon Monxide.

SECTION 10 NOTES:

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:
No toxicological information is available for this product.

SECTION 11 NOTES:

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION:
No ecological information is available for this product.

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE MANAGEMENT:
This product does not meet the criteria of a hazardous waste if discarded in its purchased form. Under RCRA, it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets RCRA criteria for hazardous waste. This is because product uses, transformations, mixtures, processes, etc, may render the resulting materials hazardous. Empty containers retain residues. All labeled precautions must be observed

DISPOSAL METHODS:
Recover and reclaim or recycle, if practical. Should this product become a waste, dispose of in a permitted industrial landfill. Ensure that containers are empty by RCRA criteria prior to disposal in a permitted industrial landfill.

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FLUIDS, INC.

SECTION 13 NOTES:

SECTION 14: TRANSPORT INFORMATION

U.S. DOT
Shipping Description: Not regulated
TDG (Canada):
Shipping Description: Not regulated.
UN PIN No: Not regulated.
IMDG CLASS:
Shipping Description: Not regulated.
ICAO CLASS:
Shipping Description: Not regulated.

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

US Regulations:
SARA 311/312
SARA 311/112 Hazard Categories: Immediate (acute) health hazard;

INGREDIANT:	SARA 313 /TPQs	CERCLA SARA 302	CA 65 Cancer	CA 65 Dev. Tox.	CA 65 Repro.F	CA 65 Repro.M	CA 65
	not listed	not listed	not listed	not listed	not listed	not listed	not listed

State Regulations
State Comments: Proposition 65: This product is not know to contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer and /or reproductive toxicity.

Canadian Regulations:
Controlled Products Regulations Statement: This product has been Classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHIMS Classification: Not a controlled product

WHMIS: D2B

SECTION 15 NOTES:

SECTION 16: OTHER INFORMATION

NFCA HMIS HAZARD INDEX:
FLAMMABILITY: 1 Slight Hazard
REACTIVITY: 1 Slight Hazard
NFCA HMIS PERS. PROTECT. INDEX: 0 Minimal Hazard
J -Splash Goggles, Gloves, Synthetic Apron, Dust and Vapor Respirator.

USER NOTES: N/A = Not applicable N/D = Not determined

INFORMATION SOURCES:
OSHA Permissible Exposure Limits, 29 CFR 1910, Subpart Z, Section 1910.1000, Air Contaminants.
ACGIH Threshold Limit Values and Biological Exposure Indices for Chemical Substances and Physical Agents (latest edition).
Sax's Dangerous Properties of Industrial Materials, 9th ed, Lewis, RJ. Sr., (ed), VNR, New York, New York, (1997).
Product information provided by the commercial vendor(s).

PREPARED BY: Jeff Steinkirchner

REVISION No./Repl. MSDS of: 4/1/1998

EPAHO103001108

FLUIDS, INC.

MSDS STATUS: Approved

DATE: 2/19/2007

DISCLAIMER:
MSDS furnished independent of product sale. While every effort has been made to accurately describe this product, some of the data are obtained from sources beyond our direct supervision. We cannot make any assertions as to its reliability or completeness; therefore, user may rely on it only at user's risk. We have made no effort to censor or conceal deleterious aspects of this product Since we cannot anticipate or control the conditions under which this information and product may be used, we make no guarantee that the precautions we have suggested will be adequate for all individuals and/or situations. It is the obligation of each user of this product to comply with the requirements of all applicable laws regarding use and disposal of this product Additional information will be furnished upon request to assist the user; however, no warranty, either expressed or implied, nor liability of any nature with respect to this product or to the data herein is made or incurred hereunder.

EPAHO103001109

MATERIAL SAFETY DATA SHEET

PRECISION FLUIDS, INC.

PRODUCT IDENTIFICATION
Product Name: **Crown Tech G-68**
NFPA Rating: Flammability: 1, Reactivity: 0, Health: 0
Synonyms: Clear Waylube

I. MANUFACTURER AND LOCATION

Manufacturers Name:	Precision Fluids, inc.
Address:	5230 Brittmoore, Houston, TX. 77043
Telephone Number:	713-896-0606

II. COMPONENT IDENTITY/INGREDIENT INFORMATION

Component	CAS No.	TLV/PEL (mg/M3)	WEIGHT %
Petroleum Oils**	64741-88-4	5 (AS OIL MIST)	>85
Property Additives	Mixture	NE	<15

The specific chemical names and composition of the components not disclosed is confidential business information and is withheld as permitted by 29CFR 1910.1200 and various state Right-to-Know laws.

This material is not known to contain any chemical listed as a carcinogen or suspected carcinogen by OSHA Hazard Communication Standard 29 CFR 1910.1200, IARC, or the National Toxicology Program (NTP) at a concentration greater than 0.1%.

III. PHYSICAL/CHEMICAL CHARACTERISTICS

Chemical Name:	Crown Tech G-68
Form:	Liquid
Odor:	Slight petroleum odor
Specific Gravity (water=1):	.87
Melting Point:	NE
Boiling Point:	NE
Volatility, weight % at 25C:	Negligible
Evaporation Rate:	Negligible
Vapor Pressure (mmHG at 25C):	<1 mm
Solubility in Water:	Insoluble
Stability:	Stable under normal conditions

IV. FIRE AND EXPLOSION DATA

Flash Point (Cleveland Open Cup):	455F
Autoignition Temperature:	NE
Flammable Limits:	NE
Fire Extinguishing Agents:	Water Spray (fog), dry chemical foam, halon, or carbon dioxide. Water stream may splash burning liquid and and spread fire.
Special Fire Fighting Procedures:	As for petroleum products. Do not use direct or heavy water stream to fight fire. Use self-contained breathing apparatus to fight fires.

V. REACTIVITY DATA

Reactivity:	Stable under normal temperatures and pressures.
Incompatibilities:	Strong oxidizing agents, heats, open flame.
Hazardous Polymerization:	Does not occur
Hazardous Decomposition Products:	CO2, CO

VI. SPECIAL PROTECTION INFORMATION

VENTILATION (Local, Mechanical, Special): Use in a well area with local exhaust ventilation.
RESPIRATORY PROTECTION: None required in normal use. Use only NIOSH/MSHA Organic vapor approved equipment if necessary.

PROTECTIVE GLOVES:	Not required in normal use.
EYE PROTECTION:	Goggles or safety glasses are recommended.
OTHER PROTECTIVE EQUIPMENT:	Practice good personal hygiene. Wash hands after use and handling.

VII. EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: If splashed into eyes, flush with clear water for 15 minutes or until irritation subsides. If irritation persists, call a physician.
SKIN CONTACT: In case of skin contact, remove any contaminated clothing and wash skin thoroughly with soap and water. If irritation occurs, contact a physician.
INGESTION: If ingested DO NOT INDUCE VOMITING, call a physician immediately

VIII. ENVIROMENTAL PROCEDURES

Spills or Leaks:	Contain any spills with absorbents to prevent migrations and entry to sewers or streams. Take up small spills with dry chemical absorbent. Large spills may be taken up with pump or vacuum and finished off with dry chemical absorbent. May require excavation of contaminated soil.

IX. SPECIAL PRECAUTIONS AND TRANSPORTATION

STORAGE: Keep containers sealed until ready for use. Avoid excessive long-term storage temperatures to prolong shelf life. Maximum storage temperature: 120F. Store in well ventilated areas.

Transportation: DOT information

Shipping Name:	Not regulated
D.O.T. I.D. Number:	NA
Reportable Quantity:	NA
Freight Classification:	NA
UN Hazard CLASS:	NA
Special Transportation Notes:	NONE

Notes: NA=Not Applicable NE= Not Established

Precision Fluids, Inc., believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. *No warranty of fitness, warranty of merchantability or any other warranty, expressed or implied, is made concerning the information provided herein.* The information provided herein relates only to the specific product designated as may no be valid where such product is used in combination with any other materials or process. Further, since the Precision Fluids, Inc., expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

Revision Date: July 1, 2004

CES Environmental Services, Inc.

Sample Evaluation Form

Sample ID # 0194 **Date** 7 / 18 / 07

Please Complete This Section

Generator / Customer Name :	CKG / Quality Value
Name or Type of Waste :	Coolant / Water / Oil / Parts Washer (caustic) Hydroxide mixed
Process Generating Waste :	Mixture of above / Place reconditions down hole tools
Number of Samples : 1	**Submitted By :** DB
Analysis To Be Completed :	PH / Amount of ~~caust~~ Acid to neutralize / TOC (1st) / ~~Chlor-D-Tect~~
Turnaround Time :	Today
Other :	

(Lab Use Only)

Sample Results : TOC 9400

Suggested Method of Treatment : Zn : 0.021

CU 1.425

Suggested Price Range : Ni 0.975

Sample Results Reported to DB

Test Completed By : GG **Date :** 07 / 19 / 07 **Time:** 10:00AM

White - CES Salesperson Copy Pink - Processing Facility Copy

BPX Films <2264> 2264

EPAHO103001113

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **7/26/2007**

Dear

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2264

Generator: BPX Films
Address: 4949 Windfern Drive
Houston, TX 77041

Waste Information

Name of Waste: Used oil
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Equipment fluid changes
Color: black **Odor:** oil like **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	BPX Films, LP		
Address:	4949 Windfern Drive		
City, State, Zip:	Houston, TX 77041		
Contact:	Don Evans	**Title:**	Maint.
Phone No:	713-460-7691	**Fax No:**	713-460-6479
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	NA		
State I.D.	NA	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	BPX Films, L.P.		
Address:	4505 Old Lamar		
City, State, Zip:	Memphis, TN 38118		
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Used Oil
Detailed Description of Process Generating Waste: Equipment Fluid Changes

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: Black **Odor:** Oil Like

Specific Gravity (water=1): .80 **Density:** 8 lbs/gal

Layers: ☒ **Single-phase** ☐ **Multi-phase**

Container Type: ☐ **Drum** ☐ **Tote** ☒ **Truck** ☐ **Other (explain)**
Container Size: ____ ____ 1000 g ____

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: NA – Recycle
Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point >140	**pH** neutral	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** <2%
Oil&Grease >1500mg/l	**TOC** >1500mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

EPAHO103001115

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001116

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001117

CES Environmental Services, Inc.
4904 Griggs Rd.
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

Fax Transmittal

Total Number of Pages (Including cover sheet): 3

Date: 3-7-07

To: BPX Films 713-460-6479
Don Evans

From: Gary Brauckman
CES Environmental Services, Inc.
Mobile: (713) 417-5737

Notes: Profile for used oil
Please sign & return
Let me know if you make
any changes, Also check the
billing address

Thanks

Gary

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Used Oil	95-100	%
Water	0-5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Chlor-D-Tect

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: not required **Date:** 7-26-07

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 7-26-07 Approved Rejected

Approval Number: 2264

Additional Information: Trans $70/Hr
$30/DM
$0.20/(processed) ~~=~~

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Used Oil	96-100	%
Water	0-5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Chlor-D-Tect

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: JohnG **Date:** 7/27/07

Printed Name/Title: John YEGANEH, Director, EHS

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____ Additional Information: _____

Date: _____ Approved Rejected _____

Approval Number: _____ _____

EPAHO103001120

CES Environmental Services, Inc.

Sample Evaluation Form

Sample ID # 00137 **Date** 3/7/07

Please Complete This Section

Generator / Customer Name :	BPX Films
Name or Type of Waste :	Used Oil
Process Generating Waste :	Equipment Fluid Change
Number of Samples :	1 **Submitted By :** Gary
Analysis To Be Completed :	Chlor-N-Test
Turnaround Time :	
Other :	

(Lab Use Only)

Sample Results : Chlor N Test ok

Suggested Method of Treatment : —

Suggested Price Range : —

Sample Results Reported to CB

Test Completed By : Godef **Date :** 03/07/07 **Time:** 6:10 PM

White - CES Salesperson Copy Pink - Processing Facility Copy

VETCO GRAY <2265> 2265

EPAHO103001122

7 e

8-4-07

LAB

T-34

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **7/30/2007**

Dear **Brian Marcantel**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2265

Generator: Vetco Gray - Kilgore
Address: 4308 State Highway 42
Kilgore, TX 75662

Waste Information

Name of Waste: Unused, off-spec grease
TCEQ Waste Code #: 00096961
Container Type:
Detailed Description of Process Generating Waste:
Unused, off-spec grease from manufacturing operations
Color: varies **Odor:** light **pH:** neutral
Physical State:
Incompatibilities: none known
Safety Related Data/Special Handling:
standard

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DC

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company:	Vetco Gray Inc		
Address:	4308 State Highway 42		
City, State, Zip:	Kilgore, TX 75662		
Contact:	Brian Mercantel	**Title:**	District Manager
Phone No:	903-984-2940	**Fax No:**	903-984-4090
24/hr Phone:			
U.S. EPA I.D. No:	TXR000040659		
State I.D.	86635	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Unused, off-spec grease
Detailed Description of Process Generating Waste: unused, off spec grease from manufacturing operations

Physical State: ☐ **Liquid** ☒ **Sludge** ☐ **Powder** ☒ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: varies **Odor:** light

Specific Gravity (water=1): 1-1.5 **Density:** 10-11 lbs/gal

Layers: ☐ **Single-phase** ☒ **Multi-phase**

Container Type:	☒	**Drum**	☐ **Tote**	☐	**Truck**	☐	**Other (explain)**
Container Size:		55 gal	____		____		____

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 5 **Other:** ____
Texas State Waste Code No: 00096961
Proper U.S. DOT Shipping Name: Non RCRA Non DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point >150	**pH** neutral	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 20%
Oil&Grease >1500mg/l	**TOC** >100mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

EPAHO103001125

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Gray Spcl Lube VGS5.1005.1	80-100	%
crushed metal drums	0-20	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 7-25-07

Printed Name/Title: Robin L. Campbell Ellis Coord.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	**Process Facility Information:**
Compliance Officer: Barbara Thangra Date: 7-30-07 (Approved) Rejected Approval Number: 2265	$45/drum OSL

EPAHO103001126

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001127

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001128

MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name	Gray Spcl Lube VGS5.1005.1	Manufacturer	South Coast Products, Inc.
Product Code	806		20 Southbelt Industrial Dr.
Chemical Name	Not Applicable - Mixture		Houston, TX 77047 USA
CAS #	Mixture	In Case of Emergency	1-800-255-3924 or +813-248-0585
		Uses	Valve lubricant

Section 2. Composition and Information on Hazardous Ingredients

Name	CAS #	% by Weight	OSHA PEL	ACGIH TLV

No hazardous ingredients (29 CFR 1910.1200)

* No toxic chemicals subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372 are present.

SPECIAL NOTE: MSDS data pertains to the product as dispensed from the container. Adverse health effects would not be expected under normal conditions of use, so long as recommended safety precautions are practiced.

Section 3. Hazards Identification

Eye Contact	May cause tearing, redness, blurred vision, and irritation.
Skin Contact	May cause drying of skin, irritation, and dermatitis.
Skin Absorption	Absorption through intact skin not anticipated to be route of entry.
Inhalation	Vapor pressure is very low. No significant hazard.
Ingestion	May cause gastrointestinal irritation, nausea, vomiting, and diarrhea.
Sensitization	Not a sensitizer under normal conditions.
Chronic Effects	None.
Carcinogenic Effects	No ingredients are listed as carcinogenic by IARC, NTP, or OSHA.
Mutagenic Effects	No data.
Teratogenic Effects	No data.
Reproductive Effects	No data.

Section 4. First Aid Measures

Eye Contact	Flush eyes with clean water for at least 15 minutes. If irritation persists, call a physician.
Skin Contact	Remove any contaminated clothing and wash skin with soap and water. If irritation occurs, call a physician.
Skin Absorption	Accidental high pressure injection under skin requires immediate medical attention.
Inhalation	Not applicable.
Ingestion	If victim is conscious, induce vomiting and call physician at once. Give large quantities of water. Never give anything by mouth to an unconscious person.

Section 5. Fire and Explosion Hazards

Flash Point (method)	450°F (232°C) (COC)
Auto-Ignition Temp.	N/A
Flammable Limits in Air	lel: N/A uel: N/A
Combustion Products	Smoke, fumes, carbon monoxide.
Explosion Hazards	In the presence of mechanical impact or static discharge: no explosion risk.
Fire Fighting Measures	Use foam, CO_2, dry chemical, water fog. Water can be used to keep containers cool and to flush spills away from fire exposure. Firefighters must wear self-contained breathing apparatus in enclosed areas.

Section 6. Accidental Release Measures

Small Spill	Recover free product. Add sand, earth, or some other suitable adsorbent. Dispose of material in accordance with all state and local regulations.	Large Spill	Take care to keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered sewers, watercourses, or extensive land areas.

Section 7. Handling and Storage

Storage	Store in cool dry area in original or equivalent container in accordance with all applicable regulations. Do not expose to extreme heat or flame. Store below 150°F.	Handling	Wash thoroughly after handling. Do not get in eyes. Follow good hygiene and housekeeping practices. Use in ventilated areas.

Section 8. Exposure Controls and Personal Protection

Engineering Controls	Use with adequate ventilation.	Personal Protection	Oil impervious gloves for prolonged or repeated skin contact.

EPAHO103001129

Section 9. Physical and Chemical Properties

Appearance and Odor	Neutral colored, tacky, mild odor	Vapor Pressure	No data
pH	Not applicable	Vapor Density (Air=1)	< 1
Boiling Point	No data	Odor Threshold	No data
Melting Point	No data	Evaporation Rate	Slower than ether
Specific Gravity (H_2O=1)	1	Solubility in Water	Negligible
Water/Oil Distribution Coefficient	No data		

Section 10. Stability and Reactivity Data

Stability	Stable.	Incompatibilities	Strong oxidizers, acids.
Conditions to Avoid	Extreme heat.	Hazardous Decomposition Products	Carbon monoxide, smoke, fumes.

Section 11. Toxicological Information

Routes of Entry	Eye, skin, ingestion.
Toxicological Data	No data

Section 12. Ecological Information

Eco toxicity	No data
BOD5 and COD	No data
Biodegradation Products and Toxicity	No data

Section 13. Disposal Considerations

Waste Information: Dispose of waste according to federal, state, and local regulations.

Section 14. Transport Information

DOT	Not regulated.
IMO	Not regulated.
IATA	Not regulated.

Section 15. Other Regulatory Information

Hazardous Material Information System (HMIS) (USA)

Health	0
Fire	1
Reactivity	0
Personal Protection	B

SARA Section 313: No ingredients subject to reporting requirements.

TSCA Inventory: All ingredients are listed or exempt.

California Prop. 65: No ingredients listed.

Canada DSL: All ingredients listed.

WHMIS Classification: Not controlled.

WHMIS: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. (Canada)

Section 16. Other Information

Date Revised	5/1/06	Prepared by	Sharon Stratman
For More Information Call	713-225-0048		

Important Notice **Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of this product for particular uses are beyond our control. Users should make their own investigation to determine the suitability of the information or products for their respective purposes.**

EPAHO103001130

2242 Qualitex Qualitex
Prof # 2242

EPAHO103001131

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **6/28/2007**

Dear **Rick Hill**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2242

Generator: Qualitex
Address: 14830 Talcott
Houston, TX 77015

Waste Information

Name of Waste: Non hazardous drums
TCEQ Waste Code #: 00052191
Container Type:
Detailed Description of Process Generating Waste:
Unused / off spec products
Color: brown-black **Odor:** tarry **pH:** neutral
Physical State:
Incompatibilities: none known
Safety Related Data/Special Handling:
standard

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

Received Fax : Jun 25 2007 3:18PM Fax Station : QUALITEX/NEWPARK p. 2

DC

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Qualitex Newpark Drilling Fluids		
Address:	14830 Talcott		
City, State, Zip:	Houston, TX 77015		
Contact:	Rick Hill	Title:	Production Manager
Phone No:	281-452-3016	Fax No:	281-452-5968
24/hr Phone:	281-924-2073		
U.S. EPA I.D. No:	TX0000658658		
State I.D.	83086	SIC Code:	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		Title:	
Phone No:		Fax No:	

SECTION 3: General Description of the Waste

Name of Waste: Non hazardous Drums
Detailed Description of Process Generating Waste: unused/off spec products

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: brown-black Odor: tarry

Specific Gravity (water=1): 1.1 Density: 8.36-8.45

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 gal

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 70-100 Other: ____

★ Texas State Waste Code No: 00052191
Proper U.S. DOT Shipping Name: Non RCRA Non DOT Regulated Material
Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point >400	pH neutral	Reactive Sulfides 0mg/l	Reactive Cyanides 0mg/l	Solids 0%
Oil&Grease <1500mg/l	TOC <1000mg/l	Zinc 0mg/l	Copper 0mg/l	Nickel 0mg/l

SECTION 4: Physical and Chemical Data

[illegible]	Concentration	Unit
The waste consists of the following materials	Ranges are acceptable	or %
Sulfonated high molecular weight triglyceride	0-100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Rick Hill **Date:** 6/25/07

Printed Name/Title: Rick Hill - Product Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Shepard

Date: 6-28-07 Approved Rejected

Approval Number: 2242

Process Facility Information:
$165/drum

OL

EPAHO103001134

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001135

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001136

Newpark Drilling Fluids, Inc. Material Safety Data Sheet

Adva-Lube E

A. PRODUCT IDENTIFICATION

CAS Reg. No: None established
Synonyms: Not applicable
Chemical Name: Sulfonated high molecular weight triglyceride
Chemical Family: Triglycerides
Chemical Formula: Not available

B. HAZARDOUS COMPONENTS

Ingredients	CAS No.	% By Wt.	OSHA PEL	ACGIH TLV
None established				

C. PERSONAL PROTECTION INFORMATION

Ventilation: Use general or local exhaust ventilation to meet TLV requirements.

Respiratory Protection: None required where adequate ventilation is available. Avoid high vapor concentration.

Eye Protection: Chemical goggles and face shield are recommended.

Skin Protection: Chemical resistant gloves and coveralls are recommended. Minimize contact. Always have an emergency shower and eye bath available.

D. HANDLING AND STORAGE PRECAUTIONS

Avoid inhalation and skin and eye contact. Wash hands before eating, drinking or smoking. Launder contaminated clothing before reuse. Store in a cool, dry, well-ventilated area. Keep away from heat or flame. Wear protective equipment and/or garments described in Section C if exposure conditions warrant.

E. REACTIVITY DATA

Stability: Stable

Incompatibility (Materials to Avoid): strong oxidants, acids and chromic acids

Hazardous Polymerization: ___ Will Occur
_X_ Will Not Occur

Conditions to Avoid: Not applicable

Hazardous Decomposition Products: oxides of carbon and sulfur

F. HEALTH HAZARD DATA

Recommended Exposure Limits:
None established

Acute Effects of Overexposure:
Eye: Direct contact may cause moderate irritation to the eyes.

Skin: May cause dermal sensitization and irritation.

Inhalation: May cause irritation to the mucous membranes of the nose, throat, and upper respiratory tract.

Ingestion: Product is of low toxicity but may cause gastrointestinal tract irritation and nausea.

Subchronic and Chronic Effect of Overexposure:
None established

Other Health Effects:
Pre-existing medical conditions which may be aggravated by exposure include: dermatitis, asthma, conjunctivitis, stomach or digestive problems.

Health Hazard Categories:
None established

First Aid and Emergency Procedures:
Eye: Immediately flush eye with running water for at least fifteen minutes. Seek medical attention.

Skin: Wash with soap and water. If irritation develops, seek medical attention.

Inhalation: Remove from exposure. If illness or adverse symptoms develop, seek medical attention.

NOTE: Personal protection information shown in Section C is based upon general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

Newpark Drilling Fluids, Inc. — Material Safety Data Sheet

Ingestion: Give two glasses of water or milk and induce vomiting. Seek medical attention.

G. PHYSICAL DATA

Appearance:	Brown to black liquid
Odor:	Tarry
Boiling Point:	> 400°F
Vapor Pressure @ 20°C:	< 0.01 mg Hg
Vapor Density (Air = 1):	> 1
Solubility in Water:	Dispersible
Specific Gravity (H_2O = 1):	1.1
Percent Volatile by Volume:	< 1
Evaporation Rate (butyl acetate=1):	0.01

H. FIRE AND EXPLOSION DATA

Flash Point (Method Used): > 400°F

Flammable Limits (% by Volume in Air): LEL-Not applicable; UEL-Not applicable.

Fire Extinguishing Media: Water, foam, dry chemical or carbon dioxide (CO_2). Use extinguishing media appropriate for surrounding fire.

Special Fire Fighting Procedures: Evacuate area of all unnecessary personnel. Wear appropriate safety equipment for fire conditions including NIOSH/MSHA self contained breathing apparatus (SCBA). Use water spray to keep fire-exposed containers cool, to flush spills away from fire, and to disperse vapors. Spillage in area could cause slippery footing and present a safety hazard. Treat product as a grease fire.

Fire and Explosion Hazards: If high enough temperatures are reached, sealed containers may build pressure and rupture.

I. SPILL, LEAK AND DISPOSAL PROCEDURES

Precautions Required if Material is Released or Spilled: Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Contain spill. Keep out of water sources and sewers. Eliminate all possible ignition sources. Dike and pump large spills into salvage containers. Apply absorbent material (clay, sand or dirt) to small spills and residue, then sweep up and place in impervious bags or containers.

CERCLA Hazardous Substances:

___ A constituent of this product appears on the CERCLA "List of Hazardous Substances and Reportable Quantities" (40 CFR 302.4).

X A constituent of this product does not appear on the CERCLA "List of Hazardous Substances and Reportable Quantities" (40 CFR 302.4).

Waste Disposal (Insure conformity with all applicable disposal regulations).

J. DOT TRANSPORTATION

Shipping Name:	Not applicable
Hazard Class:	Not applicable
ID Number:	Not applicable
Marking Label:	Not applicable
Hazardous Substance/ RQ:	Not applicable
Shipping Description:	Not applicable
Packaging References:	Not applicable

K. RCRA CLASSIFICATION

___ A constituent of this product is listed on the "P" or "U" lists under the Resource Conservation and Recovery Act (40 CFR 261.3).

X A constituent of this product is not listed on the "P" or "U" lists under the Resource Conservation and Recovery Act (40 CFR 261.3).

L. HAZARD CLASSIFICATION

___ A constituent of this product meets the following hazard definition(s) as defined by the Occupational Safety Health Hazard Communication Standard (29 CFR Section 1910.1200):

___ Combustible Liquid ___ Flammable Aerosol
___ Oxidizer ___ Compressed Gas ___ Unstable
___ Explosive ___ Flammable Solid
___ Flammable Gas ___ Organic Peroxide
___ Flammable Liquid ___ Water Reactive
___ Health Hazard (Section F) ___ Pyrophoric

EPAHQ103001138

CES Environmental Services, Inc.
4904 Griggs Rd.
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

Fax Transmittal

Total Number of Pages (Including cover sheet): 2

Date: 6/21/07

To: Richard 281-452-5968

From: Dana Carter
CES Environmental Services, Inc.
Mobile Phone: (713) 748-9804

Notes:
Waiver for disposal of Adva-Lube E.
Please call with any questions.
Thank you!
Dana

CES Environmental Services, Inc.
4904 Griggs Rd.
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

Fax Transmittal

Total Number of Pages (Including cover sheet): 5

Date: 6/25/07

To: Rick Hill 281-452-5968

From: Dana Carter
CES Environmental Services, Inc.
Mobile Phone: (713) 748-9804

Notes:
Profile for Adva-Lube E drums
~~I need a waste code number~~
Please review and sign page 2.
Thanks!
Dana

Martin midstream 2243
2243

EPAHO103001141

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **6/30/2007**

Dear **Nathan Kaufhold**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2243

Generator: Martin Midstream Fuel Services
Address: 15155 Jacinto Port Blvd.
Houston, TX 77015

Waste Information

Name of Waste: Unused oil mixed with water
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Collection of oily water from containment areas to include rinse water
Color: black / clear **Odor:** oil like **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	~~Martin Transport, Inc.~~ Martin Midstream Mega Lubricants		
Address:	~~15161~~ Jacinto Port Blvd. 15155		
City, State, Zip:	Houston, TX 77015		
Contact:	Nathan Kaufhold	**Title:**	Operations Manager
Phone No:	281-452-1415 Cell: 713-502-1686	**Fax No:**	281-452-1439
24/hr Phone:	CES 713-676-1460		
U.S. EPA I.D. No:	NA		
State I.D.	NA	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Unused Oil mixed with water
Detailed Description of Process Generating Waste: Collection of oily water from containment areas to include rinse water

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: black/clear **Odor:** oil like

Specific Gravity (water=1): .95-1.0 **Density:** 8 lbs/gal

Layers: ☐ Single-phase ☒ Multi-phase

Container Type:	☐	Drum	☐	Tote	☒	Truck	☐ Other (explain)
Container Size:		____		____		4000 g	____

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>150	neutral	0mg/l	0mg/l	<5%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

EPAHO103001143

SECTION 4: Physical and Chemical Data

COMPONENT/ANALYTE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Unused Oil such as hydraulic oil, motor oil and gear lube	2-10	%
Water	90-98	%
Soap/Surfactant	0-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
None- (Perform Chloride Test, pH and Flash Point upon arrival

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 7.2.07

Printed Name/Title: DAMON King

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 7-2-07 (Approved) Rejected

Approval Number: 2243

Additional Information: Pay 30¢ gallon
on reconstituted oil > 20% oil
Disposal of water 12¢
Trans 70.00/HR + FSC
TOC - 34¢ per gallon > 5000
Recycle

EPAHO103001144

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

MARTIN TRANSPORT

Fax Cover Sheet

MARTIN MIDSTREAM PARTNERS

MFS

To: Geary

Phone:

Fax: 713-676-1676

CC:

From: Nathan Kaufhold

Phone: 281-452-1415

Fax: 281-452-1439

Pages including cover: 5

Remarks: ☐ Urgent ☐ For your review ☑ Reply ASAP ☐ Please comment

Thanks,

NK

2244 GulfMark Energy
2244

EPAHO103001147

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **6/30/2007**

Dear **Hadi Elmi**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2244

Generator: GulfMark Energy, Inc.
Address: 4400 Post Oak Pkwy., Suite 2700
Houston, TX 77027

Waste Information

Name of Waste: Ditch rainwater impacted with crude oil
TCEQ Waste Code #: CESQ2051
Container Type:
Detailed Description of Process Generating Waste:
Tank truck turnover/crude oil spill
Color: dark/light brown **Odor:** slight **pH:** 6.48
Physical State:
Incompatibilities: none noted
Safety Related Data/Special Handling:
Avoid skin and eye exposure

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	GulfMark Energy, Inc.		
Address:	~~P.O. Box 844~~ 4400 Post Oak Pkwy, Suite #2700		
City, State, Zip:	Houston, Texas ~~77001~~ 77027		
Contact:	Hadi Elmi	**Title:**	President (ESDM, INC.)
Phone No:	281-820-3488	**Fax No:**	281-820-1366
24/hr Phone:	713-851-1256		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	GulfMark Energy, Inc.		
Address:	P.O. BOX 844		
City, State, Zip:	Houston, Texas 77001		
Contact:	Ronnie Broussard	**Title:**	Vice President
Phone No:	713-881-3632	**Fax No:**	713-881-3491

SECTION 3: General Description of the Waste

Name of Waste: ditch rain water impacted with crude oil
Detailed Description of Process Generating Waste: Tank truck turnover/crude oil spill

Physical State: ☒ Liquid ☒ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☒ Combination

Color: dark/light brown **Odor:** slight

Specific Gravity (water=1): 1.0 **Density:** 8.34 lbs/gal

Layers: ☐ Single-phase ☒ Multi-phase Layer of crude oil & emulsion

Container Type:	☐ Drum	☐ Tote	☒ Truck	☐ Other (explain)
Container Size:	5000	____	____	____

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): two **Other:** one time
Texas State Waste Code No: CESQ 2051
Proper U.S. DOT Shipping Name: Rain water impacted with crude oil
Class: ~~Non-Haz.~~ NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point > 150°F	**pH** 6.48	**Reactive Sulfides** 59.5 mg/l	**Reactive Cyanides** BRL mg/l	**Solids** 3± % GST.
Oil&Grease >1500 mg/l	**TOC** 4079 mg/l	**Zinc** NA mg/l	**Copper** NA mg/l	**Nickel** NA mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Crude oil		2
Water		98

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Avoid skin and eye exposure

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
X A & B Laboratory Analysis

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None noted

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: Yes
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: Yes
Corrosivity: Yes
Ignitability: yes

SECTION 9: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Hadi Elmi **Date:** 7/5/07

Printed Name/Title: Hadi Elmi, President, ESDM, Inc.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)
Compliance Officer: Barbara Thayer
Date: 7-5-07 Approved Rejected
Approval Number: 2244

Process Facility Information:
$ 0.12/gal ; $0.17/gal if it has to be centrifuged.
OL

EPAHO103001150

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☒ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☑ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001151

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☑ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001152

Est. 1990
ESDM, INC.

FAX

Transmittal Approval: _____

From: Hadi Elmi
Phone: (281) 820-3488
Fax #: (281) 820-1366
E-mail: esdm@esdminc.com

To:	Prabhakar Thangudu	ESDM #:	
Company:	CES Environmental	Fax #:	713-676-1676
Client:	Same	Facility:	
Date & Time:	7/5/2007 2:51 PM	Pages (Incl. cover)	24

Subject: Service Contract

Dear Prabhakar,

We need a disposal contract for the attached waste ASAP. The waste generated from crude oil spill. The transporter will be R & D Environmental. Please call if you have questions.

Thanks
Hadi

Physical
4400 Post Oak Pkwy S. # 2700
77027

This message, including attachments, is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law. If you not the intended recipient or the employee, or agent responsible for delivering the message to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone, fax, or e-mail, and destroy the original message and all copies. You should not copy, forward, and/or disclose this message, in whole or in part, without permission of the sender. Thank you.
Call (281) 820-3488 immediately if this fax is incomplete or illegible when received and ask for Fax operator.

LABORATORY TEST RESULTS

Job ID : 91188

Date 7/3/2007

Client Name: ESDM Attn: Hadi Elmi

Project ID: Gulfmark Energy Dezavala Spill, Channelview,TX

Client Sample ID: Reconfirmation Sampling Composite Waste Water
Date Collected: Frac Tank N5864
07/02/07
Time Collected: 12:00
Other Information:

Job Sample ID: 91188.01
Sample Matrix Water

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 8021B	Purgeable Aromatics								
	Benzene	0.194	mg/L	25	0.05			07/02/07 17:31	SS
	Toluene	0.600	mg/L	25	0.05			07/02/07 17:31	SS
	Ethylbenzene	0.086	mg/L	25	0.05			07/02/07 17:31	SS
	Xylenes	0.621	mg/L	25	0.150			07/02/07 17:31	SS
	Trifluorotoluene(surr)	104	%	25	75-125			07/02/07 17:31	SS

QUALITY CONTROL CERTIFICATE

Iob ID : 91188 **Date :** 7/3/2007

Analysis : Purgeable Aromatics **Method :** SW-846 8021B **Reporting Units :** mg/L

QC Batch ID : Qb07070314 **Created Date :** 07/02/07 **Created By :** Ssrinivasan

Samples in This QC Batch : 91188.01

Sample Preparation : P807070311 **Prep Method :** SW-846 5030C **Prep Date :** 07/02/07 13:00 **Prep By :** Ssrinivasan

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Benzene	71-43-2	BRL	mg/L	1	0.002		
Toluene	108-88-3	BRL	mg/L	1	0.002		
Ethylbenzene	100-41-4	BRL	mg/L	1	0.002		
Xylenes		BRL	mg/L	1	0.006		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Benzene	0.02	0.024	120	0.02	0.021	105	13.3	20	80-120	
Toluene	0.02	0.022	110	0.02	0.019	95	14.6	20	80-120	
Ethylbenzene	0.02	0.023	115	0.02	0.020	100	14	20	80-120	
Xylenes	0.06	0.071	118	0.06	0.059	98.3	18.5	20	80-120	

QC Type: MS and MSD
QC Sample ID: 91179.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Benzene	0.028	0.02	0.043	75						75-125	
Toluene	BRL	0.02	0.022	110						75-125	
Ethylbenzene	0.002	0.02	0.024	110						75-125	
Xylenes	BRL	0.06	0.066	110						75-125	

Refer to the Definition page for terms.

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

Job ID : 91188 Date: 7/3/2007

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight		

Qualifier Definition

EPAHO103001156

A & B Labs

Chain of Custody

Page 1 of 1

10100 East Fwy. (I-10), Ste. 100
Houston, TX 77029
713-453-6060
713-453-6091 Fax
ablabs.com

A&B JOB ID: 91184 fg

5. Project # 91188

1. REPORT TO:
Company: ESDM, INC
Address: 440 Benmar #1203
Houston, TX 77060
Contact: HADI ELMI
Phone: 281-820-3488
Fax: ☐ 281-820-1366
E-mail: ☐ esdm@aol.com

2. INVOICE TO:
Company: SAMG
Address:
Contact:
Phone:
Fax: ☐
E-mail: ☐

3. PO#

4. Turnaround Time (Business Days)
☐ Same Day* ☐ Need by
☒ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ 7 Days
* Surcharge applies

6. Project Name / Location: Gulfmark Energy DEZAVALA Spill, Channel View, TX

7. Special Instructions (PLEASE PRINT)
☐ TRRP Limits only ☐ TRRP Rpt. Package ☐ See Attached

8. Sampler's Name & Company (PLEASE PRINT): HADI ELMI, ESDM, INC. Sampler's Signature & Date: 7/2/07

LAB USE ONLY	Item	9. Sample ID and Description	10. Sampling Date	10. Sampling Time	11. Comp.	11. Grab	12. Matrix Water	Soil	Sludge	Oil	Air	Other	No. of Containers	13. 14. Containers*	15. Preservatives**	16. Analyses/Methods BTEX	17. REMARKS
10 MR	1	Reconfirmation Sampling	7-2-07	12:00			✓						2	✓			
	2	Composite Wastewater															
	3	Frac Tank NS864															
	4																
	5																
	6																
	7																
	8																
	9																
	10																

	18. RELINQUISHED BY	DATE	TIME	19. RECEIVED BY	DATE	TIME
1	HADI ELMI	7/2/07	12:30	Rec'd by Dany	7/2/07	12:30
2						
3						

20. KNOWN HAZARDS / COMMENTS: Crude oil + water

*Containers: VOA - 40 ml vial; 4 oz/8 oz - glass wide mouth; A/G - Amber/Glass 1 Liter; P/O - Plastic/other

**Preservatives: C - Cool; H - HCl; N - HNO_3; S - H_2SO_4; OH - NaOH; T - $Na_2S_2O_3$; X - Other

METHOD OF SHIPMENT

BILL OF LADING / TRACKING #

LAB USE ONLY SAMPLING _____ RENTAL _____ P/U _____

A&B cannot accept verbal changes
Please FAX written changes to 713-453-6091
Samples will be disposed of after 30 days
A & B reserves the right to return samples

Jul-05-07 11:40
P.18
EPAHO103001157

Sample Condition Checklist

Date : **07/02/07**

A&B JobID : **91188**	Date Received : **07/02/2007**	Time Received : **12:30 PM**
Client Name : **ESDM**		
Temperature : **5°C**	Sample pH : **N/A**	

	Check Points	Yes	No
1.	Cooler seal present and signed.		X
2.	Sample(s) in a cooler.	X	
3.	If yes, ice in cooler.	X	
4.	Sample(s) received with chain-of-custody.	X	
5.	C-O-C signed and dated.	X	
6.	Sample(s) received with signed sample custody seal.		X
7.	Sample containers arrived intact. (If no comment).	X	
8.	Matrix : Water ☑ Soil ☐ Liquid ☐ Sludge ☐ Solid ☐ Cassette ☐ Tube ☐ Bulk ☐ Badge ☐ Food ☐ Other ☐		
9.	Sample were received in appropriate container(s).	X	
10.	All samples were logged or labeled.	X	
11.	Sample ID labels match C-O-C ID's	X	
12.	Bottle count on C-O-C matches bottles found.	X	
13.	Sample volume is sufficient for analyses requested.	X	
14.	Samples were received within the hold time.	X	
15.	VOA vials completely filled.	X	
16.	Sample accepted.	X	

Comments : Include actions taken to resolve discrepancies/problem:

Received by : Rgamez

Check in by/date : Rgamez / 7/2/2007

EPAHO103001158

QUALITY CONTROL CERTIFICATE

Job ID : 90968 **Date :** 6/29/2007

Analysis : Purgeable Aromatics **Method :** SW-846 8021B **Reporting Units :** mg/Kg

QC Batch ID : Qb07062622 **Created Date :** 06/25/07 **Created By :** Ssrinivasan

Samples in This QC Batch : 90968.01

Sample Preparation : PB07062614 **Prep Method :** SW-846 5035A **Prep Date :** 06/25/07 13:00 **Prep By :** Ssrinivasan

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Benzene	71-43-2	BRL	mg/Kg	1	0.01		
Toluene	108-88-3	BRL	mg/Kg	1	0.01		
Ethylbenzene	100-41-4	BRL	mg/Kg	1	0.01		
Xylenes		BRL	mg/Kg	1	0.03		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Benzene	0.1	0.105	105	0.1	0.100	100	4.88	20	80-120	
Toluene	0.1	0.100	100	0.1	0.096	96	4.08	20	80-120	
Ethylbenzene	0.1	0.103	103	0.1	0.099	99	3.96	20	80-120	
Xylenes	0.300	0.291	97	0.300	0.281	93.7	3.5	20	80-120	

QC Type: MS and MSD
QC Sample ID: 90966.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Benzene	BRL	0.1	0.097	97						75-125	
Toluene	BRL	0.1	0.089	89						75-125	
Ethylbenzene	BRL	0.1	0.087	87						75-125	
Xylenes	BRL	0.300	0.251	83.7						75-125	

Refer to the Definition page for terms.

EPAHO103001159

QUALITY CONTROL CERTIFICATE

lab ID : 90968 **Date :** 6/29/2007

Analysis : Total Petroleum Hydrocarbons **Method :** TX 1005 **Reporting Units :** mg/Kg

QC Batch ID : Qb07062635 **Created Date :** 06/25/07 **Created By :** Hkhuc

Samples in This QC Batch : 90968.01

Sample Preparation : PB07062619 **Prep Method :** TX 1005 **Prep Date :** 06/25/07 12:00 **Prep By :** Hkhuc

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
C6-C12		BRL	mg/Kg	1	11.4		
>C12-C28		BRL	mg/Kg	1	13.3		
>C28-C35		BRL	mg/Kg	1	26.8		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12	500	526	105						75-125	
>C12-C28	500	554	111						75-125	
>C28-C35	500	543	109						75-125	

QC Type: MS and MSD
QC Sample ID: 90966.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
C6-C12	BRL	500	506	101	500	441	88.2	13.7	20	75-125	
>C12-C28	BRL	500	521	104	500	471	94.2	10.1	20	75-125	
>C28-C35	BRL	500	538	108	500	451	90.2	17.6	20	75-125	

EPAHO103001160

QUALITY CONTROL CERTIFICATE

Job ID : 90968 **Date :** 6/29/2007

Analysis : Total Metals - Mercury **Method :** SW-846 7470A **Reporting Units :** mg/Kg

QC Batch ID Qb07062707 **Created Date :** 06/27/07 **Created By :** Rbairamadgi

Samples in This QC Batch : 90968.01

Digestion : PB07062703 **Prep Method :** SW-846 7470A **Prep Date :** 06/26/07 17:00 **Prep By :** Rbairamadgi

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Mercury	7439-97-6	BRL	mg/Kg	1	0.004		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Mercury	0.1	0.1043	104						80-120	

QC Type: MS and MSD
QC Sample ID: 90959.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Mercury	BRL	0.1	0.1013	101	0.1	0.0964	96.4	4.96	20	80-120	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 90968 **Date :** 6/29/2007

Analysis : Total Metals **Method :** SW-846 6010C **Reporting Units :** mg/Kg

QC Batch ID Qb07062739 **Created Date :** 06/27/07 **Created By :** Scuello

Samples in This QC Batch : 90968.01

Digestion : PB07062716 **Prep Method :** SW-846 3050B **Prep Date :** 06/26/07 17:00 **Prep By :** Rbairamadgi

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Arsenic	7440-38-2	BRL	mg/Kg	1	0.5		
Barium	7440-39-3	BRL	mg/Kg	1	0.5		
Cadmium	7440-43-9	BRL	mg/Kg	1	0.5		
Chromium	7440-47-3	BRL	mg/Kg	1	0.5		
Lead	7439-92-1	BRL	mg/Kg	1	0.5		
Selenium	7782-49-2	BRL	mg/Kg	1	0.5		
Silver	7440-22-4	BRL	mg/Kg	1	0.5		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic	25	27.0	108	25	27.6	110	2.20	20	70-130	
Barium	25	25.5	102	25	25.9	104	1.56	20	70-130	
Cadmium	25	25.5	102	25	25.9	104	1.56	20	70-130	
Chromium	25	26.5	106	25	26.9	108	1.50	20	70-130	
Lead	25	26.1	104	25	26.6	106	1.90	20	70-130	
Selenium	25	25.1	100	25	25.7	103	2.36	20	70-130	
Silver	25	24.7	98.8	25	24.9	99.6	0.80	20	70-130	

QC Type: MS and MSD
QC Sample ID: 90982.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	1.36	25	25.5	96.6	25	25.5	96.6	0	20	70-130	
Barium	14.5	25	33.2	74.8	25	33.1	74.4	0.30	20	70-130	
Cadmium	BRL	25	23.7	94.8	25	23.7	94.8	0	20	70-130	
Chromium	73.0	25	88.8	63.2	25	104	124	15.8	20	70-130	M3
Lead	6.19	25	25.1	75.6	25	24.8	74.4	1.2	20	70-130	
Selenium	BRL	25	20.5	82	25	19.4	77.6	5.51	20	70-130	
Silver	BRL	25	19.6	78.4	25	20.2	80.8	3.02	20	70-130	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 90968 **Date :** 6/29/2007

Analysis : Ignitability (Flash Point) **Method :** SW-846 1010 **Reporting Units :** °F

QC Batch ID : Qb07062745 **Created Date :** 06/27/07 **Created By :** Ksudha

Samples in This QC Batch : 90968.01

Sample Preparation : PB07062720 **Prep Method** : SW-846 1010 **Prep Date :** 06/27/07 10:15 **Prep By :** Ksudha

QC Type: Duplicate

QC Sample ID: 90994.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Ignitability	>150	>150	°F		20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Ignitability	83	83	100	83	84	101	1.20	20	75-125	

Refer to the Definition page for terms.

EPAHO103001163

QUALITY CONTROL CERTIFICATE

Job ID : 90968 **Date :** 6/29/2007

Analysis : Corrosivity, pH **Method :** SW-846 9045D **Reporting Units :** s.u.

QC Batch ID : Qb07062748 **Created Date :** 06/26/07 **Created By :** Ksudha

Samples in This QC Batch : 90968.01

Sample Preparation : PB07062721 **Prep Method :** SW-846 9045D **Prep Date :** 06/26/07 09:00 **Prep By :** Ksudha

QC Type: Duplicate

QC Sample ID: 90964.06

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
pH	7.61	7.60	s.u.	0.13	5		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
pH	4	3.97	99.3						90-110	

Refer to the Definition page for terms.

EPAHO103001164

QUALITY CONTROL CERTIFICATE

Job ID : 90968 **Date :** 6/29/2007

Analysis : Reactivity **Method :** SW-846 7.3 **Reporting Units :** mg/Kg

QC Batch ID : Qb07062750 **Created Date :** 06/27/07 **Created By :** Ksudha

Samples in This QC Batch : 90968.01

Sample Preparation : PB07062724 **Prep Method :** SW-846 7.3 **Prep Date :** 06/27/07 13:00 **Prep By :** Ksudha

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Reactive Cyanide		BRL	mg/Kg	1	25		

QC Type: Duplicate

QC Sample ID: 90994.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Reactive Cyanide	BRL	BRL	mg/Kg		20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Reactive Cyanide	0.5	0.27	54	0.5	0.26	52	3.77	20	40-120	

Refer to the Definition page for terms.

EPAHO103001165

QUALITY CONTROL CERTIFICATE

Job ID : 90968 **Date :** 6/29/2007

Analysis : Reactivity **Method :** SW-846 7.3 **Reporting Units :** mg/Kg

QC Batch ID : Qb07062752 **Created Date :** 06/27/07 **Created By :** Ksudha

Samples in This QC Batch : 90968.01

Sample Preparation : PB07062726 **Prep Method :** SW-846 7.3 **Prep Date :** 06/27/07 14:45 **Prep By :** Ksudha

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Reactive Sulfide		BRL	mg/Kg	1	25		

QC Type: Duplicate

QC Sample ID: 90994.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Reactive Sulfide	BRL	BRL	mg/Kg		20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Reactive Sulfide	770	734	95.3	770	694	90.1	5.6	20	40-120	

Refer to the Definition page for terms.

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

Job ID : 90968 Date: 6/29/2007

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight		

Qualifier Definition

M3	The accuracy of the spike recovery value is reduced since the analyte concentration in the sample is disproportionate to spike level. The LCS recovery is acceptable.
S4	Surrogate not available due to dilution of sample extract for quantification.

EPAHO103001167

A & B Labs

Chain of Custody

Page 1 of 1

10100 East Fwy. (I-10), Ste. 100
Houston, TX 77029
713-453-6060
713-453-6091 Fax
ablabs.com

A&B JOB ID: 90968

5. Project #

1. REPORT TO:
Company: ESDM INC
Address: 440 Benmar #1200
H. TX 77060
Contact: HADI ELMI
Phone: 281-820-3489
Fax: 281-820-1366
E-mail: esdm@aol.com

2. INVOICE TO:
Company: SAME
Address:
Contact:
Phone:
Fax:
E-mail:

3. PO#

4. Turnaround Time (Business Days)
- ☐ Same Day* ☐ Need by
- ☐ 1 Day*
- ☒ 2 Days*
- ☐ 3 Days*
- ☐ 7 Days
- * Surcharge applies

6. Project Name / Location: Gulfmark Energy Crude Oil Spill @ DE Zavala Rd, Channelview, TX

7. Special Instructions (PLEASE PRINT)
☐ TRRP Limits only ☐ TRRP Rpt. Package ☐ See Attached

8. Sampler's Name & Company (PLEASE PRINT): HADI ELMI, ESDM INC
Sampler's Signature & Date: Hadi Elmi 6/25/07

LAB USE ONLY	Item	9. Sample ID and Description	10. Sampling Date	10. Sampling Time	11. Comp.	11. Grab	12. Matrix: Water	Soil	Sludge	Oil	Air	Other	13. No. of Containers	14. Containers*	15. Preservatives**	16. Analyses/Methods: RCI	RCRA metals	BTEX	TPH-ICS	17. REMARKS
01	1	Composite Wastewater	6/25/07	11:00									8			✓	✓	✓	✓	
	2	20000 gal. Frac. Tank-																		
	3	Crude oil + Rainwater																		
	4	Pickup from the DE ZAVALA																		
	5	DITCH																		
	6																			
	7																			
	8																			
	9																			
	10																			

	18. RELINQUISHED BY	DATE	TIME	19. RECEIVED BY	DATE	TIME
1	Hadi Elmi	6/25/07	11:48	Rocio Lamy	06/25/07	11:48
2						
3						

20. KNOWN HAZARDS / COMMENTS

*Containers: VOA - 40 ml vial; 4 oz/8 oz - glass wide mouth; AG - Amber/Glass 1 Liter; P/O - Plastic/other

**Preservatives: C - Cool; H - HCl; N - HNO_3; S - H_2SO_4; OH - NaOH; T - $Na_2S_2O_3$; X - Other

METHOD OF SHIPMENT

BILL OF LADING / TRACKING #

LAB USE ONLY SAMPLING RENTAL P/U

A&B cannot accept verbal changes
Please FAX written changes to 713-453-6091
Samples will be disposed of after 30 days
A & B reserves the right to return samples

Jul-05-07 11:38 P.12
EPAHO10300116

Sample Condition Checklist

Date : **06/25/07**

A&B JobID : **90968**	Date Received : **06/25/2007**	Time Received : **11:48 AM**
Client Name : **ESDM**		
Temperature : **15°C**	Sample pH : **N/A**	

	Check Points	Yes	No
1.	**Cooler seal present and signed.**		X
2.	**Sample(s) in a cooler.**	X	
3.	**If yes, ice in cooler.**		X
4.	**Sample(s) received with chain-of-custody.**	X	
5.	**C-O-C signed and dated.**	X	
6.	**Sample(s) received with signed sample custody seal.**		X
7.	**Sample containers arrived intact. (If no comment).**	X	
8.	**Matrix :** Water ☐ Soil ☐ Liquid ☐ Sludge ☑ Solid ☐ Cassette ☐ Tube ☐ Bulk ☐ Badge ☐ Food ☐ Other ☐		
9.	**Sample were received in appropriate container(s).**	X	
10.	**All samples were logged or labeled.**	X	
11.	**Sample ID labels match C-O-C ID's**	X	
12.	**Bottle count on C-O-C matches bottles found.**	X	
13.	**Sample volume is sufficient for analyses requested.**	X	
14.	**Samples were received within the hold time.**	X	
15.	**VOA vials completely filled.**	N/A	
16.	**Sample accepted.**	X	

Comments : Include actions taken to resolve discrepancies/problem:

Received by : Rgamez

Check in by/date : Rgamez / 6/25/2007

Laboratory Analysis Report

Total Number of Pages 6

Job ID : 91188

A&B

10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project ID :
Gulfmark Energy Dezavala Spill, Channelview,TX

Report To :	Client Name:	ESDM	P.O.#.:	
	Attn:	Hadi Elmi	Sample Collected By:	Hadi Elmi
	Client Address:	440 Benmar Suite 1200	Date Collected:	07/02/07
	City, State, Zip:	Houston, Texas, 77067		

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
Reconfirmation Sampling Composite Waste Water Frac Tank N5864	Water	91188.01

Released By: Sonia West
Title: Senior Project Manager
Date: 7/3/2007

This Laboratory is NELAP (T104704213-06-TX) accredited.

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client.

Date Received 07/02/2007 12:30

Vetco Gray
2245

2245

EPAHO103001171

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **7/9/2007**

Dear **Dustin Cambell**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2245

Generator: Vetco Gray
Address: 12221 N. Houston Rosslyn
Houston, TX 77086

Waste Information

Name of Waste: Phosphate solids
TCEQ Waste Code #: 04033192
Container Type:
Detailed Description of Process Generating Waste:
Solids removed from walls, bottom and heating tubes in phosphating vat for metal striping/preparation operation (Parkerizing or phosphating)
Color: grey **Odor:** slight **pH:** 2-6 (3.8)
Physical State:
Incompatibilities: none known
Safety Related Data/Special Handling:
Standard

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Vetco Gray Inc		
Address:	12221 N. Houston Rosslyn Road		
City, State, Zip:	Houston, TX 77086		
Contact:	Dustin Campbell	**Title:**	HSE Coordinator
Phone No:	281-847-4644	**Fax No:**	281-405-5644
24/hr Phone:			
U.S. EPA I.D. No:	TXD060720505		
State I.D.	30299	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Phospahate Solids
Detailed Description of Process Generating Waste: Solids removed from walls, bottom and heating tubes in phosphating vat for metal stripping/preparation operation (Parkerizing or phosphating)

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: Grey **Odor:** slight

Specific Gravity (water=1): 1.5 **Density:** 8.5-9 lbs/gal

Layers: ☒ Single-phase ☒ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck [ ] Other (explain)
Container Size: 55 gal ____ ____

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 10 **Other:** ____
Texas State Waste Code No: 04033192
Proper U.S. DOT Shipping Name: Non RCRA/Non DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point >150	**pH** 2 - 6 (3.84)	**Reactive Sulfides** <0.25mg/l	**Reactive Cyanides** <0.25mg/l	**Solids** 100%
Oil&Grease NA mg/l	**TOC** <100mg/l	**Zinc** NAmg/l	**Copper** NAmg/l	**Nickel** 17.8mg/l

EPAHO103001173

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Phosphate Solids	~~99-99.5~~ 100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Analytical 7040777

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ____
TCLP Volatiles: ____
TCLP Semi-Volatiles: ____
Reactivity: ____
Corrosivity: ____
Ignitability: ____

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 7-5-07

Printed Name/Title: Dustin Campbell

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	**Process Facility Information:**
Compliance Officer: _____ Date: 7-9-07 Approved Rejected Approval Number: 2245	$40.00/drum

EPAHO103001174

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001175

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001176

Waste Classification Documentation Form

Active: ☒	Inactive: ☐

GENERAL INFORMATION	
Waste Description: Phosphate Solids	**TWC #:** 04033192
	SWR #: 30299
Form Code Desc.: Other waste inorganic solids	**Facility:** NHR
	Date: 5/31/94

PROCESS KNOWLEDGE	
Full Description of Waste Stream Generation Activities:	The above-referenced waste stream consists of solids generated from the clean out of vats used in the on-site Parkerizing process. A scale-like material typically builds up over time in the Parkerizer vats that must be removed from walls, bottom and heating tubes during clean out. This sludge material consists of residues that are removed from carbon steel parts and impurities that are formed during the process that settle to the bottom of the Parkerizing vats or collect on other surfaces.
Chemicals/Materials involved in the waste generation process:	Phosphating chemicals (Nalco Company Aerocote 3)
Potential Contaminants:	Metals, corrosive materials, organic chemicals
MSDS Information (flash point, etc.) :	NA

ANALYTICAL DATA – SAMPLING PROCEDURES			
Sample Date(s):	5/11/94 4/30/07	**Site/Unit Description(s):**	7 drums containing waste from 6 drums from phosphate vat cleanout for burner installation
Sampling Methods and Equipment:	Composite sampling		
Sampling Techniques (collection, containerization, preservation):	1. A representative composite sample of this waste stream was collected on May 11, 1994 from seven on-site waste drums containing the spent phosphate solid. One sub-sample was collected with a clean stainless steel trowel from each of the seven waste drums to ensure a representative sample was obtained from the entire waste stream. The sub-samples were thoroughly mixed in a clean, stainless steel bowl prior to being placed into clean, laboratory-supplied sample containers. Each container was labeled and placed on ice and cooled to below 4° C for transport to A&B Environmental Services, Inc. following proper chain-of-custody protocol. The samples were analyzed for reactivity, flammability, corrosivity, RCRA metals, and total petroleum hydrocarbons. 2. Several drums were sampled in a similar manner in April 2007 that were related to a vat cleanout project.		
Rationale for Sampling Plan :	One-time event of cleaning out phosphating vat yielded seven drums of this waste stream. Composite sample was obtained from drums.		

Parameters:	TPH	Reactives	pH	Flashpoint	TCLP VOC	TCLP SVOC	Metals
Results:	473 mg/L	<0.25	3.84	>150 F			Ni @ 17.8

DOCUMENTATION ATTACHED									
Analytical Results:	☒	**QC Data:**	☒	**C-O-C:**	☒	**MSDS:**	☐	**Classification Checklist:**	☒

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536
Phone: (281)-476-4534 Fax: (281)-476-4406

CES Environmental Services
4904 Griggs Rd
Houston, TX 77021

Phone: (713) 676-1460
Fax: (713) 676-1676

Attn: **Dana Carter**

- CERTIFICATE OF RESULTS -

MES Lab#: 7040777

Client Sample ID: Phosphate Solids
Extended ID: Pancerizer Vat Cleanout

Project#: VetcoGray

Sample Collect Date: 4/17/2007 @ 1:45:00 PM
Sample Receipt Date: 4/17/2007 @ 4:30:00 PM

Sample Type: Comp

Test Group / Method

Total Petroleum Hydrocarbons Solid Method: TNRCC 1005	MDL	Result	Units	Analyst: TFR Date / Time
C6 - C12 Hydrocarbons	4	< 4	mg/kg	4/27/2007 / 10:47 AM
>C12 - C28 Hydrocarbons	8	**324**	mg/kg	4/27/2007 / 10:47 AM
>C28 - C36 Hydrocarbons	8	**149**	mg/kg	4/27/2007 / 10:47 AM
Total TPH	20	**473**	mg/kg	4/27/2007 / 10:47 AM

Reactivity, Recoverable Hydrogen Cyanide Method: 7.3.3.2	MDL	Result	Units	Analyst: CL Date / Time
Hydrogen Cyanide	0.25	< 0.25	mg/kg	4/18/2007 / 12:57 PM

Reactivity, Recoverable Hydrogen Sulfide Method: 7.3.4.2	MDL	Result	Units	Analyst: CL Date / Time
Hydrogen Sulfide	0.25	< 0.25	mg/kg	4/18/2007 / 1:45 PM

Corrosivity: pH Method: SW-846 9045	MDL	Result	Units	Analyst: DEB Date / Time
pH		**3.84**		4/18/2007 / 9:30 AM

Ignitability Method: SW-846 1010	MDL	Result	Units	Analyst: DEB Date / Time
Flashpoint		**>150**	deg F	4/18/2007 / 11:40 AM

TCLP Metals (11) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: HDGIL Date / Time
Antimony	0.032	1	< 0.032	mg/L	4/19/2007 / 2:32 PM
Arsenic	0.014	5	< 0.014	mg/L	4/19/2007 / 2:32 PM
Barium	0.0005	100	**0.252**	mg/L	4/19/2007 / 2:32 PM
Beryllium	0.0005	0.08	**0.0022**	mg/L	4/19/2007 / 2:32 PM
Cadmium	0.002	1	< 0.002	mg/L	4/19/2007 / 2:32 PM
Chromium	0.002	5	**0.007**	mg/L	4/19/2007 / 2:32 PM

EPAHO103001178

- CERTIFICATE OF RESULTS -

MES Lab#: 7040777

Client Sample ID: Phosphate Solids **Project#:** VetcoGray
Extended ID: Pancerizer Vat Cleanout

Sample Collect Date: 4/17/2007 @ 1:45:00 PM **Sample Type:** Comp
Sample Receipt Date: 4/17/2007 @ 4:30:00 PM

Lead	0.005	5	< 0.005	mg/L	4/19/2007 /	2:32 PM
Nickel	0.003	70	17.8	mg/L	4/19/2007 /	2:32 PM
Selenium	0.024	1	< 0.024	mg/L	4/19/2007 /	2:32 PM
Silver	0.002	5	< 0.002	mg/L	4/19/2007 /	2:32 PM

TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: AM Date / Time	
Mercury	0.0002	0.2	< 0.0002	mg/L	4/18/2007 /	8:15 PM

TCLP Volatiles Method: SW-846 8260B	MDL	RL	Result	Units	Analyst: HDG Date / Time	
Vinyl chloride	0.010	0.2	< 0.010	mg/L	4/20/2007 /	10:39 PM
1,1-Dichloroethene	0.005	0.7	< 0.005	mg/L	4/20/2007 /	10:39 PM
2-Butanone	0.050	200	< 0.050	mg/L	4/20/2007 /	10:39 PM
Chloroform	0.005	6	< 0.005	mg/L	4/20/2007 /	10:39 PM
Carbon tetrachloride	0.005	0.5	< 0.005	mg/L	4/20/2007 /	10:39 PM
1,2-Dichloroethane	0.005	0.5	< 0.005	mg/L	4/20/2007 /	10:39 PM
Benzene	0.005	0.5	< 0.005	mg/L	4/20/2007 /	10:39 PM
Trichloroethene	0.005	0.5	< 0.005	mg/L	4/20/2007 /	10:39 PM
Tetrachloroethene	0.005	0.7	< 0.005	mg/L	4/20/2007 /	10:39 PM
Chlorobenzene	0.005	100	< 0.005	mg/L	4/20/2007 /	10:39 PM
1,4-Dichlorobenzene	0.005	7.5	< 0.005	mg/L	4/20/2007 /	10:39 PM
Hexachlorobutadiene	0.005	0.5	< 0.005	mg/L	4/20/2007 /	10:39 PM

TCLP Sem-Volatiles Method: SW-846 8270C	MDL	RL	Result	Units	Analyst: TFR Date / Time	
Pyridine	0.05	5	< 0.05	mg/L	4/20/2007 /	3:34 AM
1,4-Dichlorobenzene	0.05	7.5	< 0.05	mg/L	4/20/2007 /	3:34 AM
o-Cresol	0.05	200	< 0.05	mg/L	4/20/2007 /	3:34 AM
m+p-Cresol	0.05	200	< 0.05	mg/L	4/20/2007 /	3:34 AM
Hexachloroethane	0.05	3	< 0.05	mg/L	4/20/2007 /	3:34 AM
Nitrobenzene	0.05	2	< 0.05	mg/L	4/20/2007 /	3:34 AM
Hexachlorobutadiene	0.05	0.5	< 0.05	mg/L	4/20/2007 /	3:34 AM
2,4,6-Trichlorophenol	0.05	2	< 0.05	mg/L	4/20/2007 /	3:34 AM
2,4,5-Trichlorophenol	0.05	400	< 0.05	mg/L	4/20/2007 /	3:34 AM
2,4-Dinitrotoluene	0.05	0.13	< 0.05	mg/L	4/20/2007 /	3:34 AM
Hexachlorobenzene	0.05	0.13	< 0.05	mg/L	4/20/2007 /	3:34 AM
Pentachlorophenol	0.50	100	< 0.50	mg/L	4/20/2007 /	3:34 AM

EPAHO103001179

- CERTIFICATE OF RESULTS -

MES Lab#: 7040777

Client Sample ID: Phosphate Solids
Extended ID: Pancerizer Vat Cleanout

Project#: VetcoGray

Sample Collect Date: 4/17/2007 @ 1:45:00 PM
Sample Receipt Date: 4/17/2007 @ 4:30:00 PM

Sample Type: Comp

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Holland D. Gilmore, Laboratory Director

Saturday, April 28, 2007
Date

EPAHO103001180

7040777 - 7040778

MERCURY ENVIRONMENTAL SERVICES
QA/QC REPORT

7040777

SURROGATE SPIKE RECOVERY FOR VOLATILES	% REC
Dibromofluoromethane	108.1
Toluene-d8	101.6
4-Bromofluorobenzene	111.7

7040778

SURROGATE SPIKE RECOVERY FOR VOLATILES	% REC
Dibromofluoromethane	104.3
Toluene-d8	102.6
4-Bromofluorobenzene	108.0

VOLATILES	MS %REC	MSD %REC	%RSD	CCV %REC	MB mg/L	LCS %REC	LCSD %REC	%RSD
Vinyl Chloride	108.2	94.6	3.4	96.1	< 0.010	107.4	106.8	0.1
1,1-Dichloroethene	99.0	91	2.1	88.4	< 0.005	100.4	98	0.6
2-Butanone	103.0	95.6	1.9	90.6	< 0.050	101.8	103.6	0.4
Chloroform	93.8	86	2.2	88.2	< 0.005	96.2	96.2	0.0
Carbon tetrachloride	107.4	94.8	3.1	96.2	< 0.005	111.4	109.2	0.5
1,2-Dichloroethane	91.4	85.8	1.6	88.8	< 0.005	94.6	93	0.4
Benzene	99.4	94	1.4	90.8	< 0.005	97.8	95.6	0.6
Trichloroethene	96.8	88.6	2.2	90.2	< 0.005	98.8	99.6	0.2
Tetrachloroethene	100.0	91.4	2.2	87.7	< 0.005	139.0	98.8	8.5
Chlorobenzene	94.2	86.2	2.2	92	< 0.005	100.4	96.6	1.0
1,4-Dichlorobenzene	89.0	78.4	3.2	88.6	< 0.005	96.6	93.6	0.8
Hexachlorobutadiene	69.0	56.4	5.0	86	< 0.005	99.4	97	0.6

7040777

SURROGATE SPIKE RECOVERY FOR SEMIVOLATILES	% REC
2-Fluorophenol	49.1
Phenol-d6	57.9
Nitrobenzene-d5	47.7
2-Fluorobiphenyl	94.7
2,4,6-Tribromophenol	45.2
p-Terphenyl-d14	47.9

7040778

SURROGATE SPIKE RECOVERY FOR SEMIVOLATILES	% REC
2-Fluorophenol	40.3
Phenol-d6	69.9
Nitrobenzene-d5	40.6
2-Fluorobiphenyl	65.3
2,4,6-Tribromophenol	58.4
p-Terphenyl-d14	57.9

EPAHO103001181

QA/QC REPORT CONTINUED

SEMI-VOLATILES	MS %REC	MSD %REC	CCV	MB mg/L	LCS %REC	LCSD %REC	mg/L		%REC	%REC
Pyridine	40.5	49.8			84.1	< 0.05			34.4	49.6
1,4-Dichlorobenzene	38.2	45.8			113.3	< 0.05			56.2	46.6
o-Cresol	34.3	40.5			110.0	< 0.05			57.8	53.8
m+p Cresol	35.3	37.6			117.4	< 0.05			54.2	45
Hexachloroethane	52.3	39.1			115.7	< 0.05			49.6	49.1
Nitrobenzene	33.1	53.8			106.2	< 0.05			42.5	51.4
Hexachloro-1,3-butadiene	34.9	36.3			101.4	< 0.05			51	65.2
2,4,6-Trichlorophenol	39.2	40.4			101.9	< 0.05			41.8	65.6
2,4,5-Trichlorophenol	36.6	36.9			96.3	< 0.05			37.9	59.6
2,4-Dinitrotoluene	29.6	29.6			95.3	< 0.05			28.7	57.2
Hexachlorobenzene	47.6	46.6			112.6	< 0.05			54.4	46.4
Pentachlorophenol	29.1	24			65.4	< 0.5			47	41.1

ANALYTE	MB mg/L	LCS %REC	LCSD %REC	RPD	CCB mg/L	CCV %REC	MS %REC	MSD %REC	RPD
Antimony	< 0.005	107.5	111	3.32	< 0.005	105	81.2	83.6	2.9
Arsenic	< 0.002	94	94	0.7	< 0.002	91	76.4	77.2	1.04
Barium	< 0.002	105.0	105	0.43	< 0.002	101	65.2	67.7	3.8
Beryllium	< 0.002	109.6	110	0.73	< 0.002	107	82.1	84.6	3.1
Cadmium	< 0.001	109.4	110.9	1.32	< 0.001	107	70.9	72.0	1.5
Chromium	< 0.001	109	107	2.50	< 0.001	103	70.0	72.2	3.0
Lead	< 0.002	106.1	109.2	2.90	< 0.002	107	67.7	71.9	6.1
Mercury	< 0.0002	101.0	97.5	3.53	< 0.0002	102.0			
Nickel	< 0.001	105	106	1.66	< 0.001	104	69.3	74.9	7.7
Selenium	< 0.024	108.1	91.4	16.7	< 0.024	87	64.9	61.8	5.0
Silver	< 0.001	110	109	0.91	< 0.001	104	73.4	75.6	3.06

ANALYTES	METHOD TPH1005	MB mg/kg	CCV %REC	MS %REC	MSD %REC
C6-C12		< 4	93.4	84.7	85.0
C12-C28		< 8	106.6	103.1	105.7

ANALYTE	STD
Flashpoint	82°F

ANALYTE	BUFFER 7.0	ORIG	DUP	RPD
pH	7.0	2.43	2.41	0.83

EPAHO103001182

QA/QC REPORT CONTINUED

ANALYTE	ORIG mg/kg	DUP mg/kg	RPD
Reactivity as Hydrogen Sulfide	< 0.25	< 0.25	0.00

ANALYTE	ORIG mg/kg	DUP mg/kg	RPD	STD %REC
Reactivity as Hydrogen Cyanide	< 0.005	< 0.005	0.00	103

Key to QA Abbreviations

MS=Matrix Spike
LCS=Laboratory Control Standard
MSD=Matrix Spike Duplicate
CCV=Continuing Calibration Verification
RPD=Relative Percent Deviation
CCB=Continuing Calibration Blank
MB=Method Blank
Rec=Percent Recovery

Signature: _____
Holland D. Gilmore / Laboratory Director

April 28, 2007

05/01/2007 09:34 -2814764406 MES PAGE 09

MES - CHAIN OF CUSTODY

Mercury Environmental Services
6913 Hwy. 225 • Deer Park, TX 77536
1-800-771-4MES
(281) 476-4534
Fax (281)-476-4406

1

COMPANY NAME: (BILL TO:) CES Environmental Services
COMPANY ADDRESS: 4904 Griggs Road
CITY Houston STATE TX ZIP 77021
CONTACT PERSON'S NAME: Dana Carter
CONTACT PERSON'S PHONE: 713-748-9804 FAX #: 713-676-1676

2

YOUR PROJECT NO.: Vetco Gray
YOUR P.O. #:
YOUR PROJECT NAME: Parkerizer Vat Cleanout
PROJECT ADDRESS:

4 PARAMETERS FOR ANALYSIS

5 REMARKS
TURNAROUND TIME: Standard
DETECTION LIMITS SPECIAL LIMITS REQUIRED: Yes No
Please circle one, if Yes, please describe below or include separate sheet detailing requirements.

YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATRIX	TPH	RCI	TCLP II Metals	TCLP Vol.	TCLP Semi Vol.			NUMBER OF CONTAINERS	PRESERVATIONS	REMARKS
Phosphate Solids	Comp	4/17	145p		X	X	X	X	X					
Phosphate liquids	Comp	4/17	145p		X	X	X	X	X					
														ONICE

3

6 PERSON TAKING SAMPLE SIGNATURE (a. - Print Name & b. - Sign.):
a. Dana Carter b. Dana R Carter

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
Dana R Carter	4/17	430	Mandu Dn

7

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

METHOD OF PAYMENT
SHIPPED BY: (Signature)
COURIER (Signature)
RECEIVED FOR MES BY: (Signature) Mandu Dn DATE 4/17 TIME 1630

8 Sample Remainder Disposal
☐ Return Sample Remainder To Client Via _____
☐ I Request Lab To Dispose Of All Sample Remainders
(Signature) _____ (Date) _____

Form # MES - CCRI

WHITE & CANARY – Shipped with Sample PINK – Retained by Customer WHITE – Returned with Report

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **7/9/2007**

Dear **Tim McConnell**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2249

Generator: AAA Flame Cut Steel
Address: 1015 Judiway
Houston, TX 77292

Waste Information

Name of Waste: Non-hazardous wastewater
TCEQ Waste Code #: CESQ1192
Container Type:
Detailed Description of Process Generating Waste:
Wastewater from plasma cutting steel
Color: clear to black **Odor:** none **pH:** 6-9
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DB

To DAN from AAA Flame Cut

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	AAA Flame Cut Steel		
Address:	1015 Judiway		
City, State, Zip:	Houston, TX 77018		
Contact:	Tim McConnell	Title:	President
Phone No:	713-868-2337	Fax No:	713-868-5454
24/hr Phone:	713-248-6141		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	SIC Code:	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	AAA Flame Cut Steel		
Address:	PO Box 924947		
City, State, Zip:	Houston, TX 77292		
Contact:	Same	Title:	Same
Phone No:	Same	Fax No:	Same

SECTION 3: General Description of the Waste

Name of Waste: Non-Hazardous Waste Water
Detailed Description of Process Generating Waste: Waste water from plasma cutting steel.

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Clear to Black Odor: None

Specific Gravity (water=1): 1 Density: 8-9 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)
Container Size: ____ ____ ____ ____

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 1 Other: ____
Texas State Waste Code No: CESQ1192
Proper U.S. DOT Shipping Name: Non-RCRA, Non-DOT Regulated Waste Water
Class: Na UN/NA: Na PG: Na RQ: Na

Flash Point >200	pH 6-9	Reactive Sulfides 0mg/l	Reactive Cyanides 0mg/l	Solids 0-3%
Oil&Grease <1500mg/l	TOC <5000mg/l	Zinc 0mg/l	Copper 0mg/l	Nickel 0mg/l

JUL-03-2007 08:34 From:AAA FLAMECUT STEEL 713 868 5454 To:713 676 1676 P.1/4
JUL-02-2007 15:32 CES Environmental Svcs. 7137488664 P.02/05

EPAHO103001186

SECTION 4: Physical and Chemical Data

The waste consists of the following materials	Ranges are acceptable	or %
Water	97-100	%
Steel Dust	0-3	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ____
TCLP Volatiles: X-Benzene only
TCLP Semi-Volatiles: X
Reactivity: ____
Corrosivity: ____
Ignitability: ____

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 07/01/07

Printed Name/Title: Tim McConnel/President

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 7-9-07 Approved Rejected

Approval Number: 2249

Process Facility Information: 1L

$69/hr + FSC

.15/gal

JUL-02-2007 15:32 CES Environmental Svcs. 7137488664 P.03/05

EPAHO103001187

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☒ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001188

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☒ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

JUL-03-2007 08:35 FROM:HHH FLEMINGTON STEEL 713 868 3454 10:13 6/6 16/6 P.3/4
JUL-02-2007 15:33 CES Environmental Svcs. 7137488664 P.06/06

EPAHO103001189

ENVIRON EXPRESS LABORATORIES, INC.

401 N. 11th. St.
La Porte, TX 77571
281.471.0951 FAX:281.471.5821

Express Laboratories

CERTIFICATE OF ANALYSIS NO: 62036.01

Customer: CES Env. Svcs. Sample ID: Plasma Waste Water Environ ID: 62036.01
Project ID: AAA Flame Cut Steel Sampled: 06-20-07
Project Loc: Hou., TX Matrix: Water Received: 06-22-07
Charge/P.O.: Type: Grab Reported: 06-28-07

ANALYTE/PARAMETER	RESULT	UNITS	REG. LIMIT	MQL	TEST METHOD	TEST BY	DATE	TIME
BENZENE - TCLP					SW846.1311	MN	06-22-07	
Benzene	< 0.001	mg/l	--	0.001	SW846.8021B	DMB	06-26-07	17:35
TPH								
nC6 to nC12 GRO	< 50	mg/l	--	50	TCEQ 1005.3	DB	06-27-07	05:51
> nC12 to nC28 DRO	< 50	mg/l	--	50	TCEQ 1005.3	DB	06-27-07	05:51
> nC28 to nC35 ORO	< 50	mg/l	--	50	TCEQ 1005.3	DB	06-27-07	05:51
TPH (Total nC6 to nC35)	< 50	mg/l	--		TCEQ 1005.3	DB	06-27-07	05:51
RCI								
Reactive Cyanide	< 50	mg/l	250	50	EPA SW846.7.3.3	LC	06-26-07	13:15
Reactive Sulfide	< 50	mg/l	500	50	EPA SW846.7.3.4	LC	06-26-07	13:10
Corrosivity (pH)	9.72	su	=>2; =<12.5	--	EPA SW846.9045C	LC	06-26-07	12:50
Ignitability	> 160	°F	> 140	--	EPA SW846.1010	LC	06-26-07	14:00
METALS - TCEQ-TCLP					EPA SW846.1311	MN	06-22-07	
Antimony	< 0.1	mg/l	1.0	0.1	EPA SW846.6010B	JK	06-27-07	09:00
Arsenic	< 0.1	mg/l	1.8	0.1	EPA SW846.6010B	JK	06-27-07	09:00
Barium	< 2.0	mg/l	100	2.0	EPA SW846.6010B	JK	06-27-07	09:00
Beryllium	< 0.05	mg/l	0.08	0.05	EPA SW846.6010B	JK	06-27-07	09:00
Cadmium	< 0.1	mg/l	0.5	0.1	EPA SW846.6010B	JK	06-27-07	09:00
Chromium	< 0.1	mg/l	5.0	0.1	EPA SW846.6010B	JK	06-27-07	09:00
Lead	< 0.1	mg/l	1.5	0.1	EPA SW846.6010B	JK	06-27-07	09:00
Nickel	< 0.1	mg/l	70	0.1	EPA SW846.6010B	JK	06-27-07	09:00
Selenium	0.1	mg/l	1.0	0.1	EPA SW846.6010B	JK	06-27-07	09:00
Silver	< 0.2	mg/l	5.0	0.2	EPA SW846.6010B	JK	06-27-07	09:00
Mercury	< 0.02	mg/l	0.2	0.02	EPA SW846.7470A	MN	06-25-07	13:00

Key: TCLP - Toxicity Characteristic Leaching Procedur REG - Regulatory Limit (User Should Verify)
EPA - Environmental Protection Agency MQL - Method Quantitation Limit
TCEQ - Texas Commission on Environmental Qu RCVD - As Received (Wet) Basis
TPH - Total petroleum Hydrocarbons mg/l - Milligrams per Liter (PPM Volume)
GRO - Gasoline Range, DRO - Diesel Range, ORO - Oil Range mg/kg - Milligrams per Kilogram (PPM Weight)

John Keller

John Keller, Ph.D
Laboratory Director

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	BTEX	METHOD:	EPA SW846/5030/8021B	MATRIX:	LEACHATE

ANALYST:	dmb	UNITS:	mg/l	NO.SAMPLES:	18

SAMPLES:	61989-01	62002-01	62002-02	62002-03	62002-04	62004-03	62008-01	62015-01
	62015-02	62016-01	62016-02	62016-03	62017-01	62026-03	62026-06	62026-07
	62035-01	62036.01						

MATRIX 62002-03	MATRIX RESULTS	SPIKE ADDED	MS RESULTS	MS REC	MSD REC	RPD	CCV REC	MB	QC LIMITS (%)	
									REC-RANGE	RPD
BENZENE	0	100	97	97	96	1	98	0	60 - 120	20
TOLUENE	0	100	87	87	88	1	90	0	60 - 120	20
Et-BENZENE	0	100	97	97	94	3	91	0	60 - 120	20
XYLENES	0	300	310	103	100	3	93	0	60 - 120	20
MTBE	0	100	96	96	97	0	102	0	60 - 120	20

KEY:

BTEX - Benzene (BENZ), Toluene (TOL)
Ethylbenzene (ETBZ), Xylenes (XYLS)
MTBE - Methyl-tert-butyl ether
CCV - Continuing Calibration Verification
MB - Method Blank
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
REC - Recovery Percent

John Keller 6/27/07

JOHN KELLER, Ph.D DATE
Lab.Dir./QA-QC Mgr.

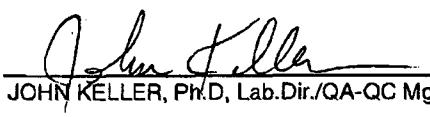
ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	TPH	METHOD:	TNRCC 1005.3

ANALYST:	dmb	MATRIX:	Extract	UNITS:	mg/kg	SAMPLES:	7

SAMPLES:	62032-01	62033-01	62034-01	62036-01	62040-01	62040-02	62040-03

QC SAMPLE	MB	CCV	FB	LCS	LCSD	LCS/LCSD	QC LIMITS	
MB	mg/kg	REC	REC	REC	REC	RPD	REC	RPD
GRO RESULT	< 50	108.4%	96.4%	96.4%	94.8%	1.7%	75-125	20
DRO RESULT	< 50	119.9%	104.1%	104.1%	98.5%	5.5%	75-125	20



06-28-07

JOHN KELLER, Ph.D, Lab.Dir./QA-QC Mgr. DATE

KEY:

TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
CCV - Continuing Calibration Verification
MB - Method Blank
LCS - Laboratory Control Sample
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative % Difference
REC - Recovery %

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	METALS	METHOD:	EPA SW846/6010	MATRIX:	LIQUID

ANALYST:	JK	DATE:	06.27.07	UNITS:	PPM (mg/l)	NO.SAMPLES:	12

SAMPLES:	62028.01	62029.01	62029.03	62030.01	62030.02	62032.01	62033.01	62034.01
	62036.01	62029.02	61920.01	62043.01				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS BATCH ID: 62028.01

SAMPLE Matrix	SAMPLE RESULTS	SPIKE ADDED	SPIKE RESULTS	RECOV. %	RECOV. DUP. %	REL. DIFF. %	CONT. CALIB.	METHOD BLANK	QC LIMITS RECOV.	QC LIMITS DIFF.
Arsenic	0.00	5	4.48	90	95	6	84	0	75 - 125	20
Barium	0.00	5	4.66	93	98	5	99	0	75 - 125	20
Cadmium	0.00	5	4.44	89	94	5	95	0	75 - 125	20
Chromium	0.00	5	4.46	89	94	5	87	0	75 - 125	20
Lead	0.00	5	4.59	92	96	4	91	0	75 - 125	20
Selenium	0.00	5	4.78	96	103	8	93	0	75 - 125	20
Silver	0.00	5	4.60	92	96	4	92	0	75 - 125	20

John Keller

JOHN KELLER, Ph.D
Laboratory Director

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	MERCURY	METHOD: EPA SW846/7471A	MATRIX:	LIQUID

ANALYSTS:	MN	DATE:	06.25.07	UNITS:	mg/l	NO.SAMPLES:	6

SAMPLES:	61920.01	62028.01	62032.01	62033.01	62034.01	62036.01		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS

SAMPLE Matrix	SAMPLE RESULTS	SPIKE ADDED	SPIKE RESULTS	RECOV. %	RECOV. DUP. %	REL. DIFF.	CONT. CALIB.	METH. BLANK	CORR. COEFF.	QC LIMITS RECOV.	QC LIMITS DIFF.
MERCURY	0.00	0.002	0.002	100	95	5	100	0	1	60 - 120	20

John Keller

JOHN KELLER, Ph.D
Laboratory Director

Express Laboratories

ENVIRON EXPRESS QUALITY CONTROL REPORT

BATCH ID:	62026.01	MATRIX:	Water	NO.SAMPLES:	6

SAMPLES:	62026.01	62032.01	62033.01	62034.01	62036.01	62039.01	

ANALYSIS (units)	QC SAMPLE	SAMPLE RESULTS	SPK ADDED	DUP/SPK RESULTS	MS REC	DUP/MSD RPD	CCV REC	MB	QC LIMITS (%) REC	QC LIMITS (%) RPD
Reactive Cyanide (mg/kg)	62026.01	<50	200	200	100	0	100	<	60 - 120	20
Reactive Sulfide (mg/kg)	62026.01	<50	200	200	100	0	100	< 20	60 - 120	20
Ignitability (°F)	62032.01	>160	--	>160	98	0	98	--	60 - 120	20
pH (su)	62039.01	5.91	--	5.90	--	0	100	--	NA	20

KEY: CCV - Continuing Calibration Verification
DUP - Duplicate
QC - Quality Control
MB - Method Blank
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
REC - Recovery Percent
SPK - Spike

John Keller

6/28/2007

JOHN KELLER, Ph.D DATE
Lab.Dir./QA-QC Mgr.

CHAIN OF CUSTODY

ENVIRON Express Laboratories

Page 1 of 1

ENVIRON EXPRESS LABORATORIES, INC.
401 North 11th. St. / La Porte, Texas 77571-3115
(281) 471-0951 / (800) 880-0156
Fax: (281) 471-5821 / After Hours: (281) 844-2308
e-mail: environexp@aol.com

Results To:	Invoice To:	TAT (WORKING DAYS) CIRCLE ONE: 1 2 3 (5)
Dan Bowman	Sam	
Company: CES	Company:	LAB LOT #:
Address: 4904 Griggs Rd	Address:	COC Present? (Yes) No
City: Houston State: TX Zip: 77021	City: State: Zip:	Shipment Sealed? (Yes) No / Samples Sealed? (Yes) No
Phone: 713-854-6150	Phone:	Received on Ice? (Yes) No / Samples Intact? (Yes) No
Fax: 713-676-1676	Fax:	Cooler Temp. (°C): 2°C / Preservative Shown? Yes (No) NA
e-Mail:	PO#: Quote#:	Hold Time OK? (Yes) No / Res. Cl2 Check OK? Yes No (NA)
		pH Check OK? (Yes) No NA / COC & Labels Agree? (Yes) No

Project Name: AAA Flame Cut Steel

Project Location: Houston, TX

Project No:

Sampler (Print): Dan Bowman

Sampler (Sign): [signature]

Sampler Remarks:

Cntr. Type[2]	G
Number	1
Volume	32oz
Preservative[3]	1

EEL USE ONLY (LAB NO.)	SAMPLE ID.	DATE/TIME SAMPLED	MATRIX[1]	(C)OMP / (G)RAB	BTEX (8021B)	TPH (TX1005.3)	RCI	PAH	TOTAL (EPA TCLP) VOLATILES	SEMI-VOLS	RCRA 8 METALS	TCLP Benzene						Remarks & Additional Analyses
0203601	1) Plasma Waste Water	6/20/07 11:30 AM				X	X				X	X						
	2)																	
	3)																	
	4)																	
	5)																	
	6)																	
	7)																	
	8)																	
	9)																	
	10)																	

Relinquished By:	Company:	Date/Time:	Received By:	Company:
[signature]	CES	6/22/07 11:30 AM	Ronda Hargrove	Environ Express

Matrix Key[1]
S:Soil W:Water WW:Waste Water SL:Sludge SO:Solid SE:Sediment L: Leachate WI:Wipe OR:Organic OL:Oil DS:Drum Solid DL:Drum Liquid O:Other ______

Container Type Key[2]
P:Plastic G:Glass V:VOA Glass O:Other ______

Preservative Key[3]
1:Ice(<4°C) 2:HCL 3:H_2SO_4 4:HNO_3 5:NaOH 6:NaOH+Zn Acetate 7:$Na_2S_2O_3$ 8:None

Delivery of samples constitutes acceptance of Environ's terms and conditions in the Price Schedule.

Septon Company of America 2246
2246

EPAHO103001197

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **6/25/2007**

Dear **Darrell Clark**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2246

Generator: Septon Company of America
Address: 11414 Choate Road
Pasadena, TX 77507

Waste Information

Name of Waste: Activated alumina - no styrene
TCEQ Waste Code #: 00123101
Container Type:
Detailed Description of Process Generating Waste:
Alumina is exposed to butadiene and isoprene and washed with cyclohexane and purged with nitrogen to dry
Color: white to off yellow pell **Odor:** none **pH:** solid
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Septon Company of America		
Address:	11414 Choate Road		
City, State, Zip:	Pasadena, TX 77507		
Contact:	Darrell Clark	**Title:**	EHS Manager
Phone No:	281-909-5881	**Fax No:**	281-909-5871
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	TXR000043943		
State I.D.	86840	**SIC Code:**	2821

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Activated Alumina-No Styrene
Detailed Description of Process Generating Waste: Alumina is exposed to butadiene and isoprene & washed with cyclohexane and purged with nitrogen to dry

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: white to off yellow pellets **Odor:** none

Specific Gravity (water=1): 1.5 **Density:** 10 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☒	**Drum**	☐ **Tote**	☐ **Truck**	☒	**Other (explain)**
Container Size:		55 gal	____	____		1 yd bags

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 5 **Other:** ____
Texas State Waste Code No: 00123101
Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point >200	**pH** solid	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 100%
Oil&Grease <1500mg/l	**TOC** <1500mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** >200mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Alumina Beads	90-100	%
Molecular Sieve Beads	0-10	%
Butadiene	0-.00001	%
Isoprene	0-.00001	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 6/22/07

Printed Name/Title: Darrell Clark / Environment Mgr

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 6-25-07 Approved Rejected

Approval Number: 2246

Additional Information: 55 cc/Dm
120 cc/yd
15

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

11414 Choate Road
Pasadena, Texas 77507

Telephone: 281-909-5800
Facsimile: 281-909-5801

SEPCA
SEPTON Company of America
A Kuraray Group Company

Fax

To:	Gary Brauckman	**From:**	Darrell Clark
Fax:	713-676-1676	**Pages:**	5
Phone:	713-676-1460	**Date:**	June 22, 2007
Re:	Profile for Activated Alumina – no styrene	**CC:**	

☐ **Urgent** ☑ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

• **Comments:**

Following is signed profile

PORT OF HOUSTON 2247

EPAHO10300120 4

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **8/28/2007**

Dear **Steve Sams**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2247

Generator: Port of Houston
Address: 111 East Loop North
Houston, TX 77029-4327

Waste Information

Name of Waste: Barge rinsewater
TCEQ Waste Code #: CESQ1191
Container Type:
Detailed Description of Process Generating Waste:
Rinsewater from cleaning of cargo hauls
Color: light green **Odor:** slight chlorine **pH:** neutral
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
standard

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

4B

SECTION 1: Generator Information

Company:	Barge - Barbara Vaught		
Address:	Port Of Houston 111 E. Loop North (City Dock #13)		
City, State, Zip:	Houston, TX 77029		
Contact:	Steve Sams	**Title:**	Safety Coordinator
Phone No:	713-530-4550	**Fax No:**	
24/hr Phone:	713-530-4550		
U.S. EPA I.D. No:	N/A		
State I.D.	N/A	**SIC Code:**	N/A

SECTION 2: Billing Information – ☐ Same as Above

Company:	Phoenix Pollution Control		
Address:	720 S Lynchburg Rd		
City, State, Zip:	Baytown, TX 77520		
Contact:	Steve Sams	**Title:**	Sales & Safety Coordinator
Phone No:	713-530-4550	**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Barge Rinsewater
Detailed Description of Process Generating Waste: Rinsewater From Cleaning Of The Cargo Hauls

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: light green **Odor:** slight chlorine

Specific Gravity (water=1): 1 **Density:** 8.34 lbs/gal

Layers: ☒ **Single-phase** ☐ **Multi-phase**

Container Type: ☐ **Drum** ☐ **Tote** ☒ **Truck** ☐ **Other (explain)**
Container Size: ____ ____ 5000 gal ____

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 3 **Other:** ____
Texas State Waste Code No: ~~n/a~~ CES81191
Proper U.S. DOT Shipping Name: Non-RCRA/ Non-DOT regulated rinsewater
Class: N/A **UN/NA:** N/A **PG:** N/A **RQ:** N/A

Flash Point N/A	**pH** ~~N/A~~ neutral	**Reactive Sulfides** N/A mg/l	**Reactive Cyanides** N/A mg/l	**Solids** ~~N/A %~~ <1%
Oil&Grease N/A mg/l	**TOC** N/A mg/l	**Zinc** N/A mg/l	**Copper** N/A mg/l	**Nickel** N/A mg/l

EPAHO103001206

SECTION 4: Physical and Chemical Data

The waste consists of the following materials	Ranges are acceptable	or %
Water	90-100	%
Coal	0-5	%
Liquichlor Cleaning agent (12.5% Sodium Hypochlorite/Bleach)	0-5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: below regulatory limits
TCLP Volatiles: below regulatory limits
TCLP Semi-Volatiles: below regulatory limits
Reactivity: no reactive materials are present in process
Corrosivity: pH is neutral before shipment
Ignitability: no ignitable materials are present

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: X _____ **Date:** 08-14-07

Printed Name/Title: Steve Sams/ Auth. Broker For Generator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	**Process Facility Information:**
Compliance Officer: [signature]	$0.10/gal up to 18000 TOC $0.03/gal / 5800 TOC. Surcharges for solids
Date: 8-28-07 (Approved) Rejected	
Approval Number: 2247	

EPAHO103001207

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☒ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☒ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001208

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☒ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001209

Septon Company 2248
2248

EPAHO103001210

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **6/28/2007**

Dear **Darrell Clark**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2248

Generator: Septon Company of America
Address: 11414 Choate Road
Pasadena, TX 77507

Waste Information

Name of Waste: Anti-oxidant
TCEQ Waste Code #: 00204092
Container Type: 1 yd box
Detailed Description of Process Generating Waste:
Unused material in which the packaging broke and rendered the material unusable
Color: white chips **Odor:** non **pH:** 5-6
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

22

SECTION 1: Generator Information

Company:	Septon Company of America		
Address:	11414 Choate Road		
City, State, Zip:	Pasadena, TX 77507		
Contact:	Darrell Clark	**Title:**	EHS Manager
Phone No:	281-909-5881	**Fax No:**	281-909-5871
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	TXR000043943		
State I.D.	86840	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Anti-Oxident
Detailed Description of Process Generating Waste: Unused material in which the packaging broke and rendered the material unusuable

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: White chips **Odor:** none

Specific Gravity (water=1): 1.15 **Density:** 10 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☐ Drum	☐ Tote	☐ Truck	☒ Other (explain)
Container Size:	____	____	____	1 yd box

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 2 **Other:** ____
Texas State Waste Code No: 00204092
Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200	5-6 1% solution	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
<1500mg/l	<1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Irganox 1010 (Anti-Oxidant)	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Darrell Clark Date: 6/28/07

Printed Name/Title: Darrell Clark, Environment Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Barbara Champion

Date: 6-28-07 Approved Rejected

Approval Number: 2248

Additional Information: 120.00/Box (yard)
50.00/Dm
OS

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

11414 Choate Road
Pasadena, Texas 77507

Telephone: 281-909-5800
Facsimile: 281-909-5801

SEPCA
SEPTON Company of America
A Kuraray Group Company

Fax

To:	Gary Brauckman	**From:**	Darrell Cairk
Fax:	713-676-1676	**Pages:**	5
Phone:		**Date:**	June 28, 2007
Re:	Septon Profile - Antioxident	**CC:**	

☐ **Urgent** ☑ **For Review** ☐ **Please Comment** ☐ **Please Reply** ☐ **Please Recycle**

• **Comments:**

Following is signed profile for Antioxident waste for pickup Friday

Goodrich Corporation 2250
2250

EPAHO103001217

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **7/9/2007**

Dear **Michael Jaskowiak/Angela Brown**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2250

Generator: Goodrich Corporation
Address: 1300 West Fern Avenue
Foley, AL 36536

Waste Information

Name of Waste: Power wash wastewater
TCEQ Waste Code #: OUTS1011
Container Type:
Detailed Description of Process Generating Waste:
Rinse out
Color: clear **Odor:** na **pH:** 5-9
Physical State:
Incompatibilities: na
Safety Related Data/Special Handling:
na

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Goodrich Corporation		
Address:	1300 West Fern Avenue		
City, State, Zip:	Foley, AL, 36536		
Contact:	Mike Padelford	**Title:**	
Phone No:	251-952-3207	**Fax No:**	251-952-3169
24/hr Phone:	800-424-9300		
U.S. EPA I.D. No:	ALD980839112		
State I.D.		**SIC Code:**	3728

SECTION 2: Billing Information – ☐ Same as Above

Company:	Rineco Chemical		
Address:	P.O. Box 729		
City, State, Zip:	Benton, AR, 72018		
Contact:	Angela Brown	**Title:**	Non-Fuels Chemist
Phone No:	800-377-4692	**Fax No:**	501-778-8505

SECTION 3: General Description of the Waste

Name of Waste: Power Wash Waste Water
Detailed Description of Process Generating Waste: rinse out

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: clear **Odor:** N/A

Specific Gravity (water=1): 1 **Density:** 8.33 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☐ Drum	☐ Tote	☒ Truck	☐ Other (explain)
Container Size:	____	____	5000 gal	____

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: OUTS101-1
Proper U.S. DOT Shipping Name: Non Regulated Material (Power Wash Waste Water)
Class: N/A **UN/NA:** N/A **PG:** N/A **RQ:** N/A

Flash Point >200	**pH** 5-9	**Reactive Sulfides** N/Amg/l	**Reactive Cyanides** N/Amg/l	**Solids** N/A%
Oil&Grease N/Amg/l	**TOC** N/Amg/l	**Zinc** N/Amg/l	**Copper** N/Amg/l	**Nickel** N/Amg/l

EPAHO103001219

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
power wash waste water	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
N/A

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
N/A

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
N/A

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge: generator process | product knowledge

TCLP Metals: N/A
TCLP Volatiles: N/A
TCLP Semi-Volatiles: N/A
Reactivity: N/A
Corrosivity: N/A
Ignitability: N/A

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Angela Brown **Date:** 7-9-07

Printed Name/Title: Angela Brown -- Rineco Non-Fuels Chemist

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature] Additional Information: IL

Date: 7-9-07 Approved Rejected

Approval Number: 2250

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☒ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001221

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☒ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001222

Economy Polymers 2251
2251

EPAHO103001223

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **7/12/2007**

Dear **Zac or Dave**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2251

Generator: Economy Polymers
Address: 435 E Anderson
Houston, TX 77047

Waste Information

Name of Waste: Troton X-100
TCEQ Waste Code #: CESQ2191
Container Type:
Detailed Description of Process Generating Waste:
Off-spec out of date material
Color: pale yellow **Odor:** mild **pH:** 3-11
Physical State:
Incompatibilities: strong bases, acids, oxidizers
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

Attn Dan 11pgs

DB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Economy Polymers
Address: 435 E. Anderson
City, State, Zip: Houston, TX 77047
Contact: Manny Chowdhary Title:
Phone No: 713-723-8416 Fax No: 713-723-1845
24/hr Phone:
U.S. EPA I.D. No: TXCESQG
State I.D. CESQG SIC Code: NA

SECTION 2: Billing Information – ☐ Same as Above

Company: CKB Services
Address: 10707 Honea Egypt
City, State, Zip: Montgomery, TX 77316
Contact: Traci Fisher Title: Office mgr
Phone No: 936-483-3662 Fax No: 936-483-3874

SECTION 3: General Description of the Waste

Name of Waste: Triton X-100
Detailed Description of Process Generating Waste: ORR Spec - out of Date Material

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Pale Yellow Odor: mild

Specific Gravity (water=1): 1.067 Density: 8 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55gal

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 1 Other:
Texas State Waste Code No: CESQ 2191
Proper U.S. DOT Shipping Name: Non RCRA, Non-DOT Regulated
Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
7200°C	3-11	/ mg/l	/ mg/l	/ %

Oil&Grease	TOC	Zinc	Copper	Nickel
/ mg/l	/ mg/l	/ mg/l	/ mg/l	/ mg/l

EPAHO103001225

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Octylphenoxpolyethoxy - ethanol	797	%
Polyethylene Glycol	<3	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
~~None~~ Strong Acids/Bases/oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ___
TCLP Volatiles: ___
TCLP Semi-Volatiles: ___
Reactivity: ___
Corrosivity: ___
Ignitability: ___

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 6/18/07

Printed Name/Title: [signature]

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 7-12-07 Approved Rejected

Approval Number: 2251

Additional Information: OK Contains Phenol put in Sludge box or Stuff to Newpark

$75/dm

See Compatability on MSDS

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001227

(713) 433-6771 offices

UNION CARBIDE CORPORATION
MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE 12/15/95

Union Carbide urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology, and fire prevention, as necessary or appropriate to use and understand the data contained in this MSDS.

To promote safe handling, each customer or recipient should: (1) notify its employees, agents, contractors and others whom it knows or believes will use this material or the information in this MSDS and any other information regarding hazards or safety; (2) furnish this same information to each of its customers for the product; and (3) request its customers to notify their employees, customers, and other users of the product of this information.

I. IDENTIFICATION

PRODUCT NAME:	TRITON X-100 Surfactant
CHEMICAL NAME:	Octylphenoxypolyethoxyethanol Nonionic Surfactant
CHEMICAL FAMILY:	Nonionic Surfactant
FORMULA:	C33H60O10.5
MOLECULAR WEIGHT:	624 (Average)
SYNONYMS:	An alkylphenol-hydroxypolyoxyethylene
CAS # AND NAME:	See Section III, "Ingredients"

II. PHYSICAL DATA (Determined on Typical Material)

BOILING POINT, 760 mm Hg:	>200 C (>392 F)
SPECIFIC GRAVITY(H2O = 1):	1.067 at 20/20 C
FREEZING POINT:	6 C (43 F)
VAPOR PRESSURE AT 20°C:	<0.01 mmHg

Copyright 1995, Union Carbide
TRITON is a registered trademark of Union Carbide.
EMERGENCY PHONE NUMBERS: 1-800-UCC-HELP (NUMBER AVAILABLE AT ALL TIMES) OR (304) 744-3487

CARBIDE CORPORATION
ury Road, Danbury, CT 06817-0001

Attn: Connie

PRODUCT NAME: TRITON X-100 Surfactant

EVAPORATION RATE (Butyl Acetate = 1): <0.01

VAPOR DENSITY (AIR = 1): >1

SOLUBILITY IN WATER by wt: 100% at 20 C

APPEARANCE: Transparent pale yellow

ODOR: Mild

ATTN: April

PHYSICAL STATE: Liquid

PERCENT VOLATILES (by weight): 0.0065

III. INGREDIENTS

%	MATERIAL	CAS#	EXPOSURE LIMIT
>97	Octylphenoxypolyethoxy -ethanol	9036-19-5	None established
< 3	Polyethylene Glycol	25322-68-3	None established

IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT(test method(s)):

485 F (251 C)
Pensky-Martens Closed Cup ASTM D 93

555 F (290 C)
Cleveland Open Cup ASTM D 92

FLAMMABLE LIMITS IN AIR % by volume: LOWER: Not Determined UPPER: Not Determined

SPECIAL FIRE FIGHTING PROCEDURES: Do not direct a solid stream of water or foam into hot, burning pools; this may cause frothing and increase fire intensity.
Use self-contained breathing apparatus and protective clothing.

EXTINGUISHING MEDIA: Apply alcohol-type or all-purpose-type foam by manufacturers' recommended techniques for large fires. Use water spray, carbon dioxide, or dry chemical media for small fires.

PRODUCT NAME: TRITON X-100 Surfactant

UNUSUAL FIRE AND EXPLOSION HAZARDS: This material may produce a floating fire hazard. See "Other Precautions" in Section IX.

V. HEALTH HAZARD DATA

EXPOSURE LIMIT(S): None established by OSHA or ACGIH.

EFFECTS OF SINGLE OVEREXPOSURE:

SWALLOWING: Moderately toxic. May cause abdominal discomfort, nausea, vomiting, and diarrhea.
Aspiration into the lungs may occur during ingestion or vomiting, resulting in lung injury.

SKIN ABSORPTION: No evidence of harmful effects from available information.

INHALATION: Mist may cause irritation of the respiratory tract, experienced as nasal discomfort and discharge, with chest pain and coughing.

SKIN CONTACT: Brief contact is not irritating.
Prolonged or repeated contact may cause discomfort and local redness.

EYE CONTACT: Causes severe irritation, experienced as discomfort or pain, excess blinking and tear production, marked excess redness and swelling of the conjunctiva, and chemical burns of the cornea.
Iritis may occur.

EFFECTS OF REPEATED OVEREXPOSURE:
No adverse effects anticipated from available information.

MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:
A knowledge of the available toxicology information and of the physical and chemical properties of the material suggests that overexposure is unlikely to aggravate existing medical conditions.

SIGNIFICANT LABORATORY DATA WITH POSSIBLE RELEVANCE TO HUMAN HEALTH HAZARD EVALUATION:
Contains surfactant which, based on studies with rabbits involving the sustained occluded contact of the undiluted surfactant with skin, indicate that such conditions may result in the development of inflammatory changes in the lung.
Developmental effects including extra ribs and other skeletal variations were observed in the fetuses of rats treated with maternally toxic levels of a 9-mole ethoxylate of octylphenol or nonylphenol. The significance of these findings to humans is unclear as several human studies did not show any association of congenital effects in children and maternal exposure to spermicides containing octyl or nonylphenol ethoxylates.

OTHER EFFECTS OF OVEREXPOSURE:
None currently known.

PRODUCT NAME: TRITON X-100 Surfactant

EMERGENCY AND FIRST AID PROCEDURES:

SWALLOWING:	If patient is fully conscious, give two glasses of water. DO NOT INDUCE VOMITING. Obtain medical attention.
SKIN:	Remove contaminated clothing. Wash skin with soap and water. Obtain medical attention if irritation persists. Wash clothing before reuse.
INHALATION:	If any symptoms develop, remove to fresh air.
EYES:	Immediately flush eyes with water and continue washing for at least 15 minutes. DO NOT remove contact lenses, if worn. Obtain medical attention without delay, preferably from an ophthalmologist.
NOTES TO PHYSICIAN:	There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient. Any material aspirated during vomiting may cause lung injury. Therefore, emesis should not be induced mechanically or pharmacologically. If it is considered necessary to evacuate the stomach contents, this should be done by means least likely to cause aspiration (e.g., gastric lavage after endotracheal intubation).

VI. REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Prolonged excessive heat may cause product decomposition.

INCOMPATIBILITY (materials to avoid):
Normally unreactive; however, avoid strong bases at high temperatures, strong acids, strong oxidizing agents and materials reactive with hydroxyl compounds.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:
Burning can produce the following products:
Carbon monoxide and/or carbon dioxide.
Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant.

HAZARDOUS POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID: None known.

VII. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
Wear eye and skin protection. Floor may be slippery; use care to avoid falling. Contain spills immediately with inert materials (eg. sand, earth). Avoid discharge to natural waters. Transfer liquids and solid diking material to suitable containers for recovery or disposal. To avoid gelling and foaming problems, do not use water to flush away spills.

PRODUCT NAME: TRITON X-100 Surfactant

AQUATIC EFFECTS:
96 hr. Fathead Minnow LC50 - 8.9 mg/L

WASTE DISPOSAL METHOD:
Incinerate in a furnace where permitted under Federal, State, and local regulations.

VIII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (specify type):
None expected to be needed. However, where misting may occur, wear a MSHA/NIOSH approved (or equivalent) half-mask air purifying respirator.

VENTILATION: General (mechanical) room ventilation is expected to be satisfactory.

PROTECTIVE GLOVES: PVC-coated

EYE PROTECTION: Monogoggles

OTHER PROTECTIVE EQUIPMENT:
Eye Bath, Safety Shower
Chemical Apron

IX. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
DANGER!
CAUSES EYE BURNS.
HARMFUL IF SWALLOWED.
CAUSES SKIN IRRITATION.
PLASTIC CONTAINER, IF PRESENT, MAY CAUSE STATIC IGNITION HAZARD.

ASPIRATION MAY CAUSE LUNG DAMAGE.

Do not get in eyes.
Do not swallow.
Avoid contact with skin and clothing.
Do not handle or empty in presence of flammable vapor.
Keep container closed.
Use with adequate ventilation.
Wash thoroughly after handling.

FOR INDUSTRY USE ONLY

OTHER PRECAUTIONS:
NOTICE! NOT TO BE USED AS A BIOCIDE IN INTRAVAGINAL END-USE APPLICATIONS (INCLUDING SPERMICIDES). FOR INDUSTRY USE ONLY.

Surfactants can cause foaming problems in biological wastewater treatment plants and other high shear operations.

This product may contain trace amounts of Ethylene Oxide (CAS No. 75-21-8), a condition which creates the potential for accumulation of ethylene oxide in the head space of shipping and storage containers and in enclosed areas

where the product is being handled or used. Ethylene Oxide is listed by OSHA as probably carcinogenic to humans, IARC as carcinogenic to humans, and NTP as reasonably anticipated to be carcinogenic. OSHA considers that, at excessive levels, ethylene oxide may present reproductive, mutagenic, genotoxic, neurologic and sensitization hazards. If this product is handled with adequate ventilation, the presence of these trace amounts is not expected to result in any short or long term hazard.

This product may not be exempt from OSHA's ethylene oxide standard, 29CFR1910.1047. Users should comply with all applicable provisions. Personnel should be monitored to determine levels of exposure to ethylene oxide. If necessary, protective measures should be taken. The OSHA permissible exposure limit for ethylene oxide is 1 ppm TWA, the action level is 0.5 ppm TWA, the ACGIH TLV is 1 ppm TWA and OSHA has established an excursion limit of 5 ppm (15 minute average).

ADDITIONAL INFORMATION: Additional product safety information on this product may be obtained by calling your Union Carbide Corporation Sales or Customer Service contact.

PROCESS HAZARD: Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into hot equipment under a vacuum, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions.

Any use of this product in elevated-temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions. Further information is available in a technical bulletin entitled "Ignition Hazards of Organic Chemical Vapors."

X. REGULATORY INFORMATION

STATUS ON SUBSTANCE LISTS:

The concentrations shown are maximum or ceiling levels (weight %) to be used for calculations for regulations. Trade Secrets are indicated by "TS".

FEDERAL EPA

Comprehensive Environmental Response Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQs) in 40 CFR 302.4.

Components present in this product at a level which could require reporting under the statute are:

CHEMICAL	CAS NUMBER	UPPER BOUND CONCENTRATION %
Glycol Ether	None	2
Dioxane	123-91-1	.0055
Ethylene Oxide	75-21-8	.0010

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQs) in 40 CFR 355 (used for SARA 302, 304, 311 and 312).

Components present in this product at a level which could require reporting under the statute are:

*** NONE ***

2252 National Oilwell Varco
2252

EPAHO103001234

Q2
T-34
LAB
8-4-09

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **7/12/2007**

Dear **Melissa Geigley**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2252

Generator: National Oilwell Varco
Address: 12950 W. Little York
Houston, TX 77041

Waste Information

Name of Waste: Glycol
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Fluid used to pressure test pipe
Color: pink - varies **Odor:** glycol like **pH:** 7-10
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company:	National Oilwell Varco (West Little York)		
Address:	12950 W. Little York		
City, State, Zip:	Houston, TX 77041		
Contact:	~~Melissa Geigley~~ Ed Joyce	**Title:**	EHS Mgr.
Phone No:	713-856-4145	**Fax No:**	713-435-2093
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	TXT490014180		
State I.D.	32145	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Glycol
Detailed Description of Process Generating Waste: Fluid used to pressure test pipe

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: Pink-varies **Odor:** glycol like

Specific Gravity (water=1): 1.02 **Density:** 9 lbs/gal

Layers: ☒ **Single-phase** ☐ **Multi-phase**

Container Type:	☒	**Drum**	☐ **Tote**	☐	**Truck**	☐	**Other (explain)**
Container Size:		55 gal					

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 3 **Other:**
Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point >150	**pH** 7-10	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** <1%
Oil&Grease >1500mg/l	**TOC** >1500mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

EPAHO103001237

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Ethylene Glycol	50-70	%
Water	30-50	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: N/A **Date:** _____

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 7-12-07 Approved Rejected

Approval Number: 2252

Additional Information: REC

$42/dm;

$70/Trans

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001239

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

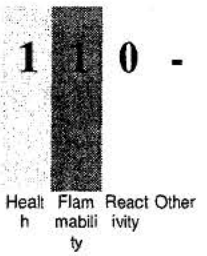
SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001240

MacDermid
Offshore Solutions

223 N. Brockman - Pasadena, TX 77506
Telephone (713)472-5081 - FAX (713)472-2440



MATERIAL SAFETY DATA SHEET

(b) (4)

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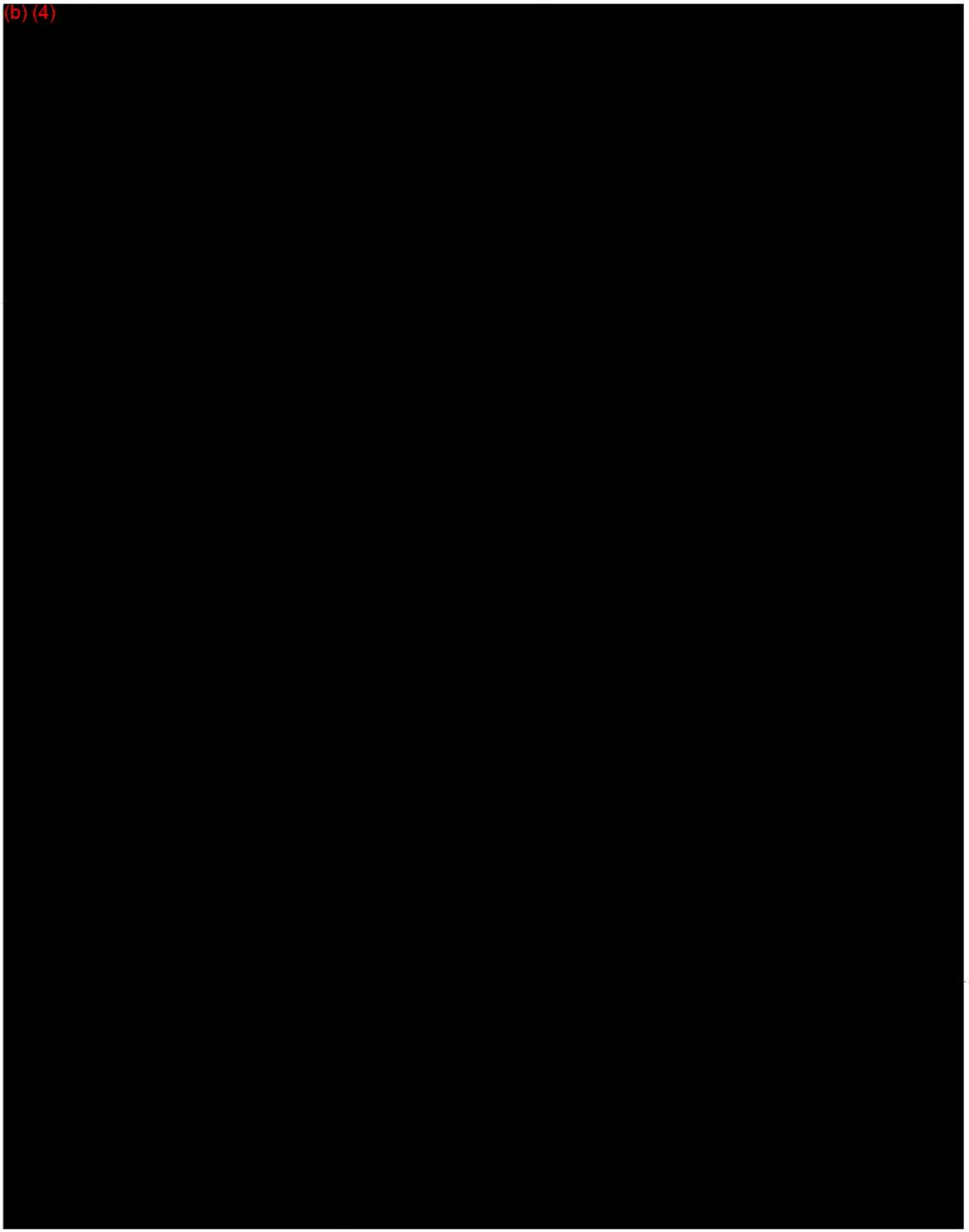
(b) (4)



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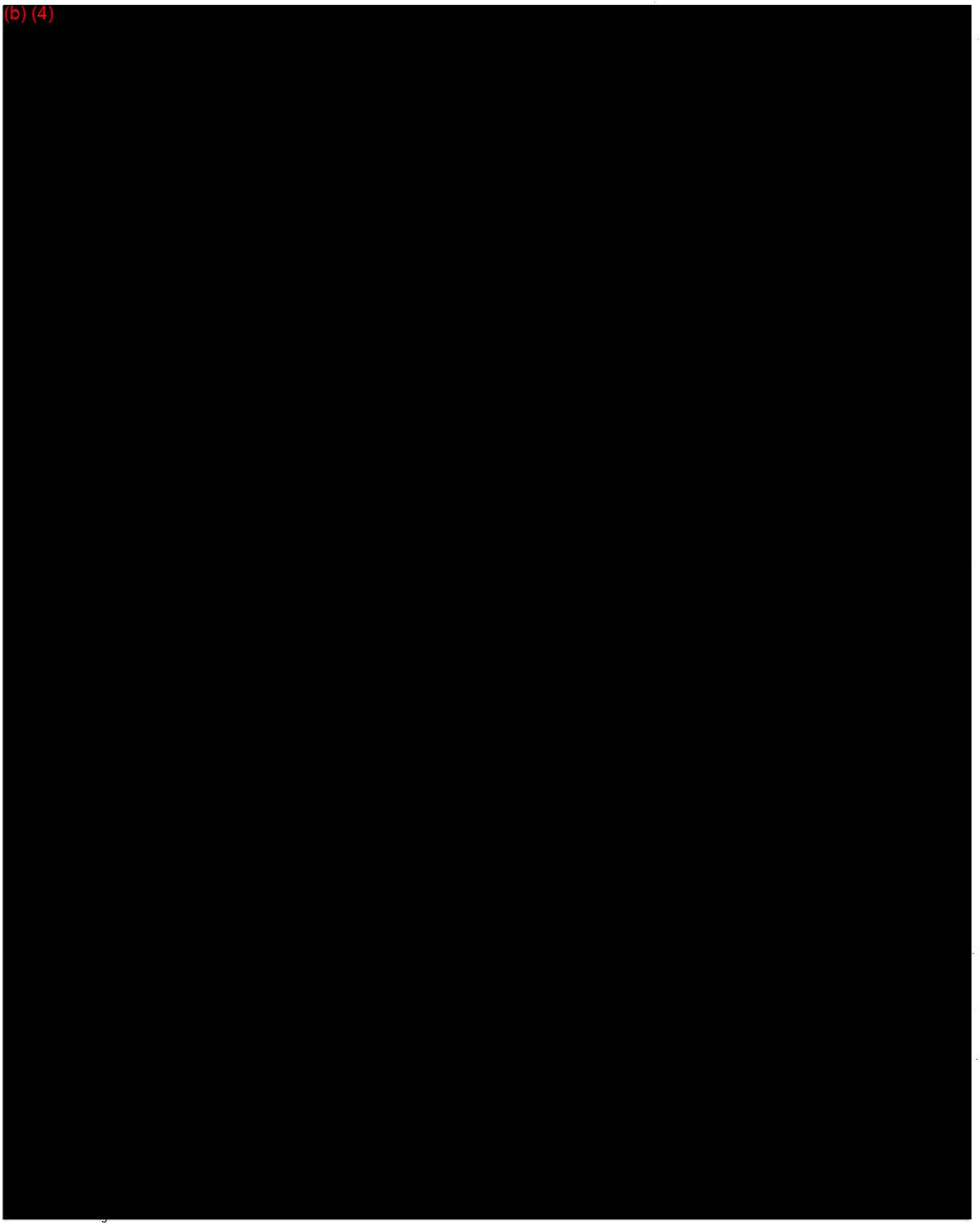

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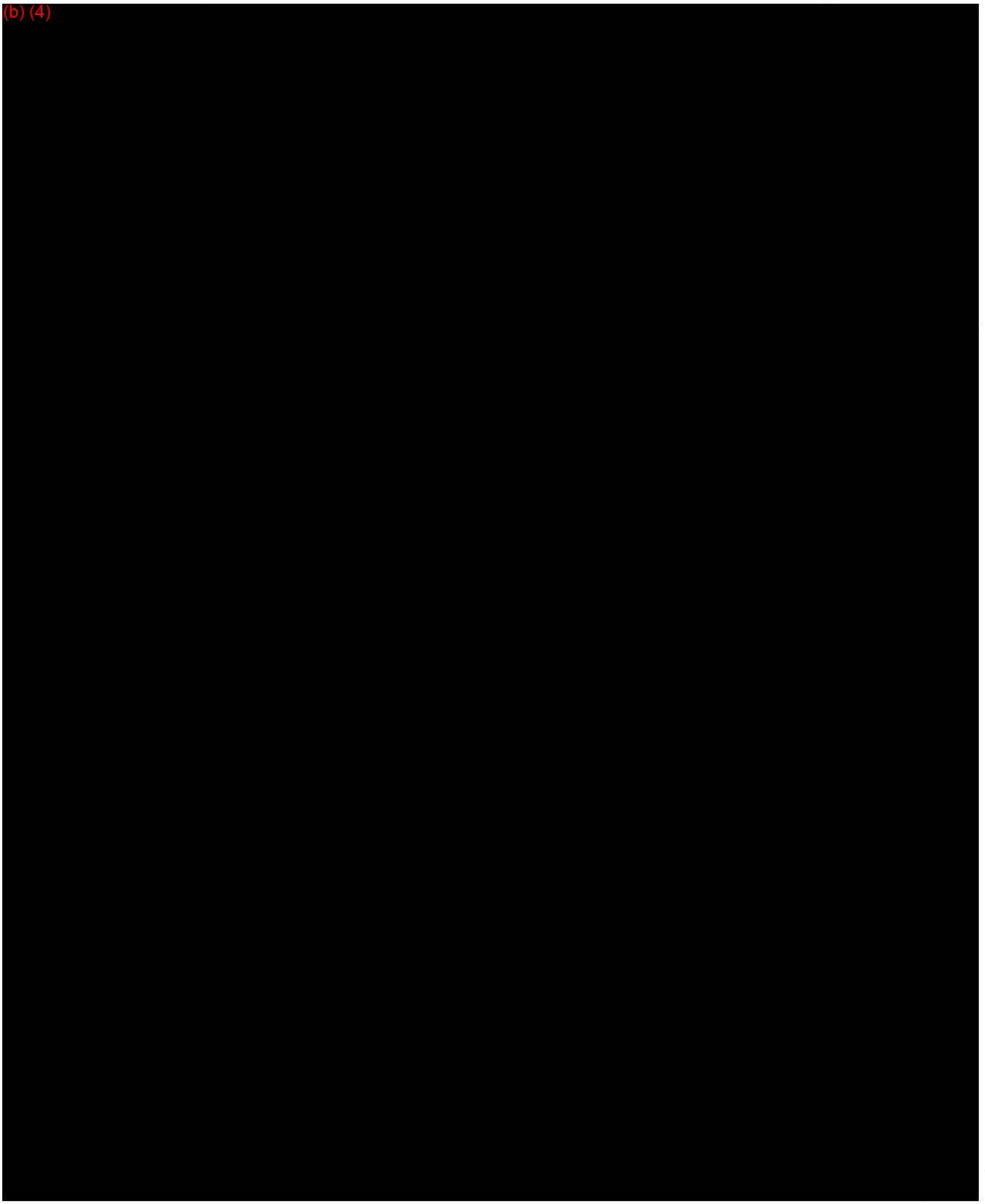

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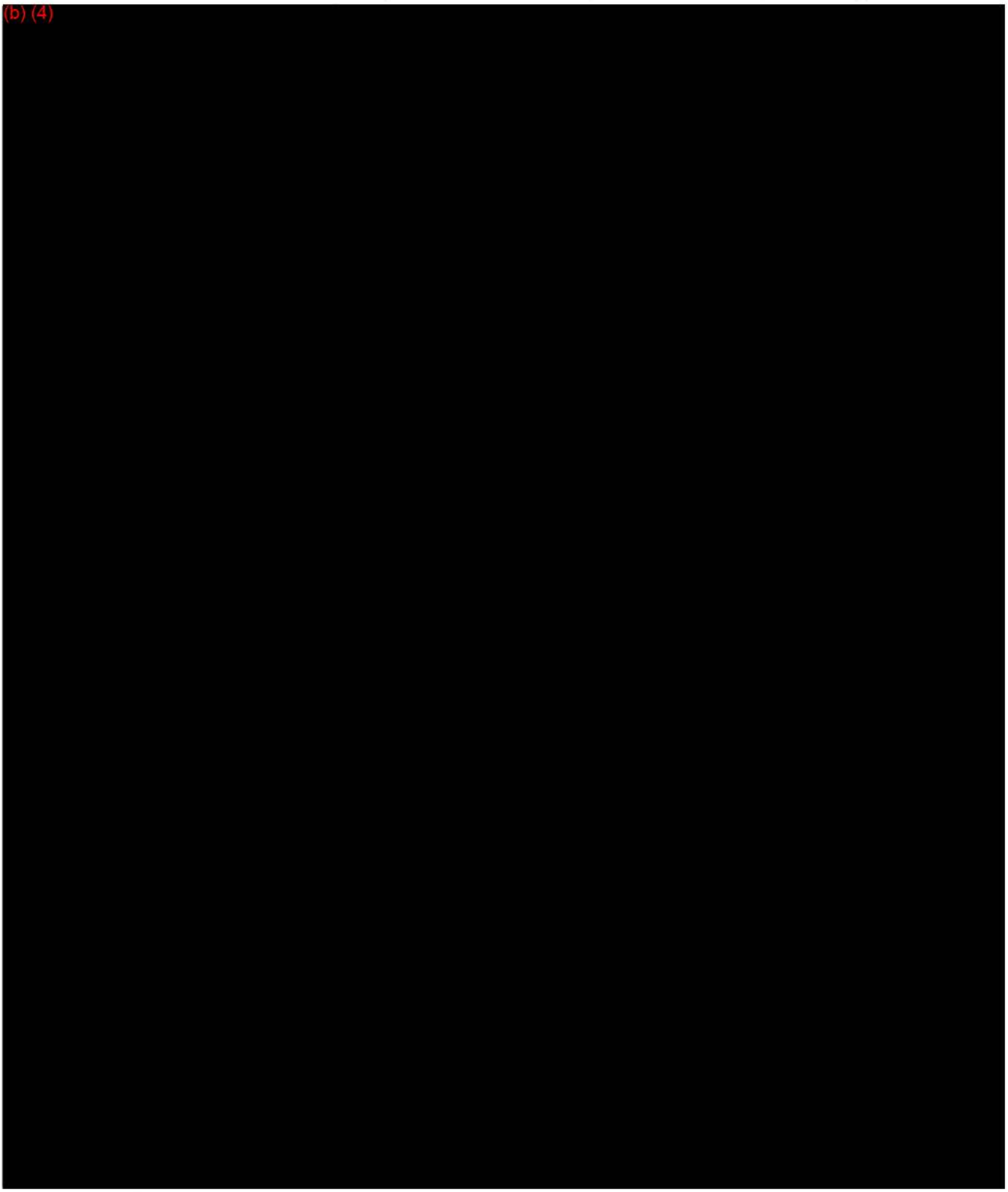

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MacDermid
Offshore Solutions

223 N. Brockman - Pasadena, TX 77506
Telephone (713)472-5081 - FAX (713)472-2440

Health	Flammability	Reactivity	Other
1	1	0	-

MATERIAL SAFETY DATA SHEET

(b) (4)

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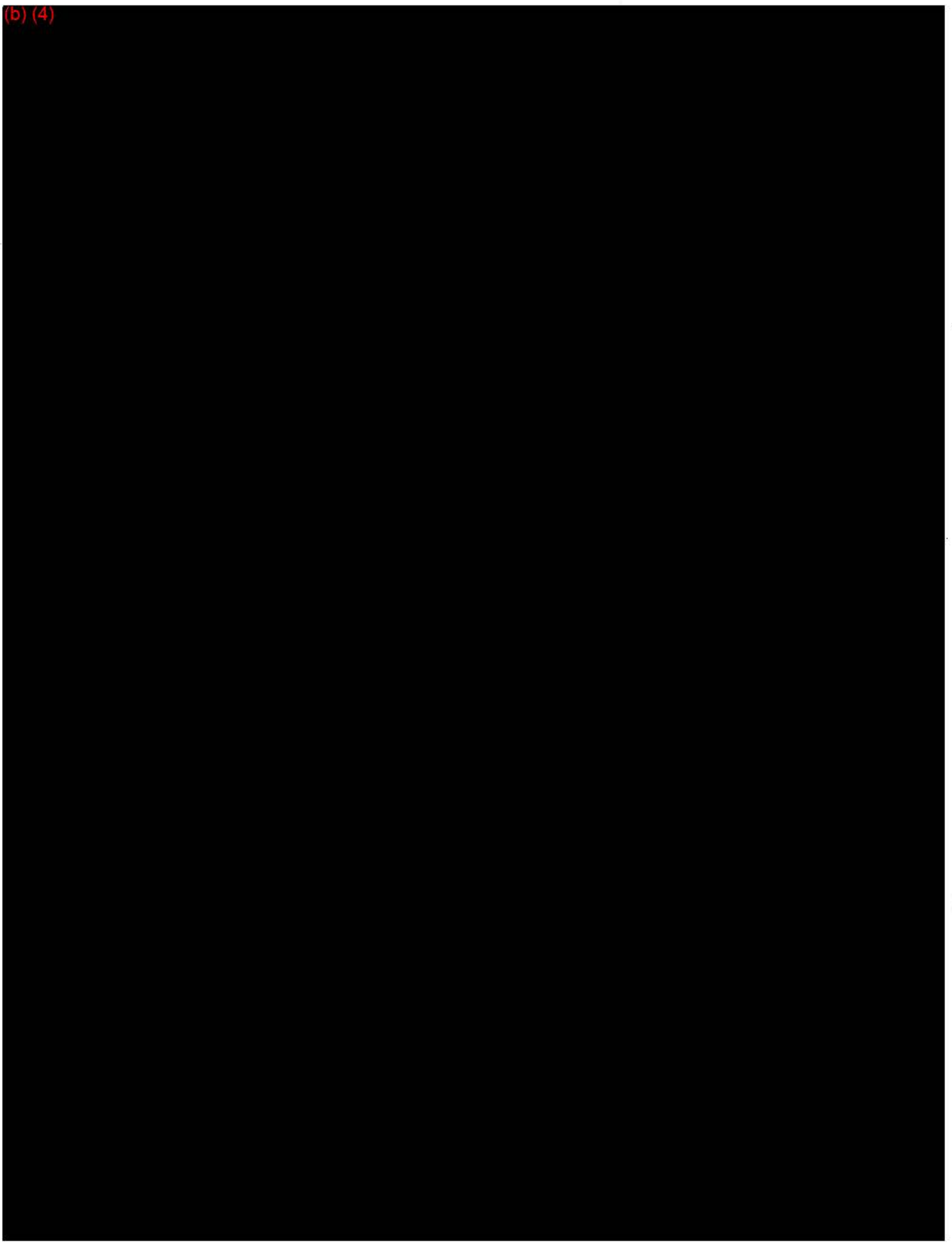
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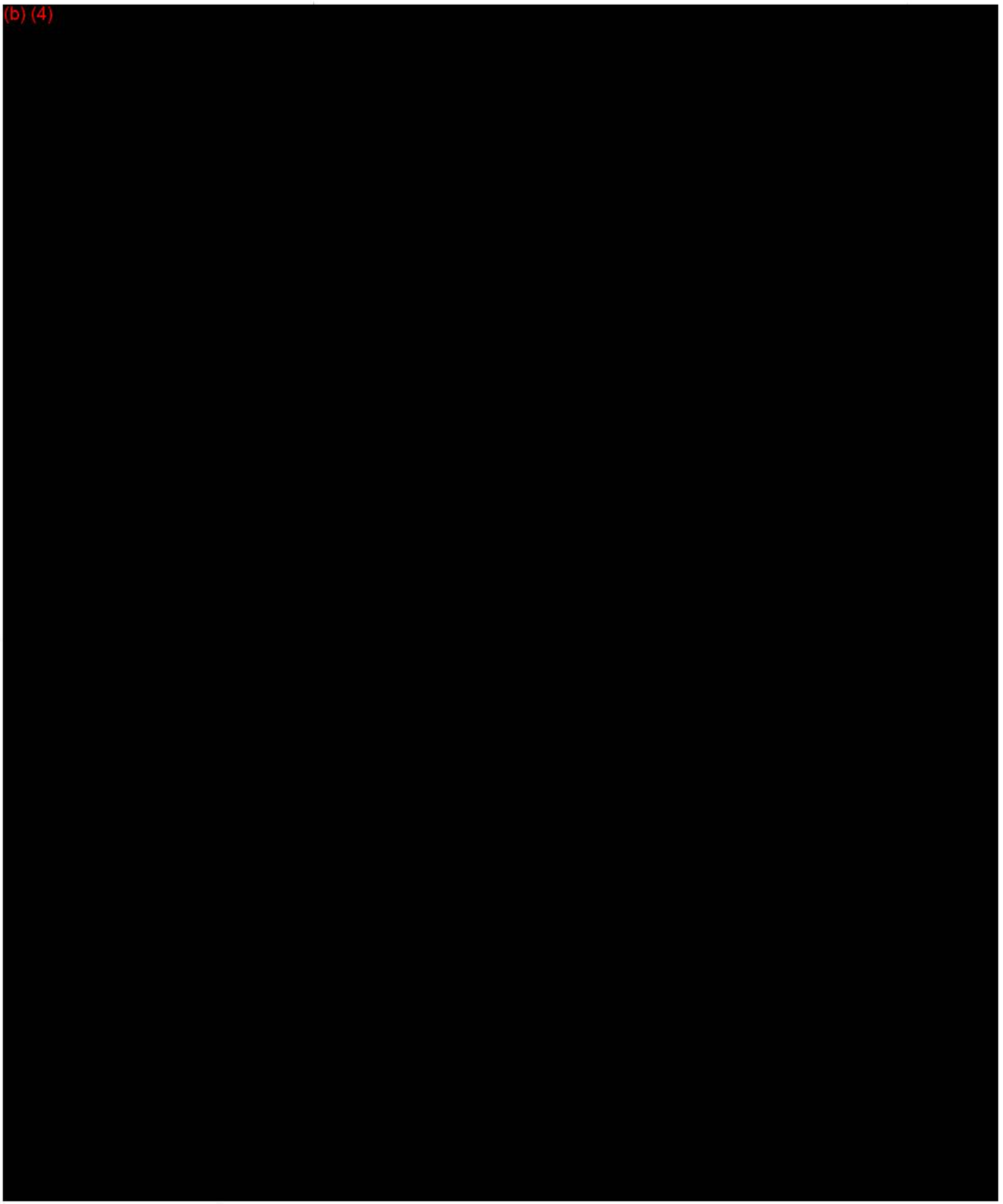
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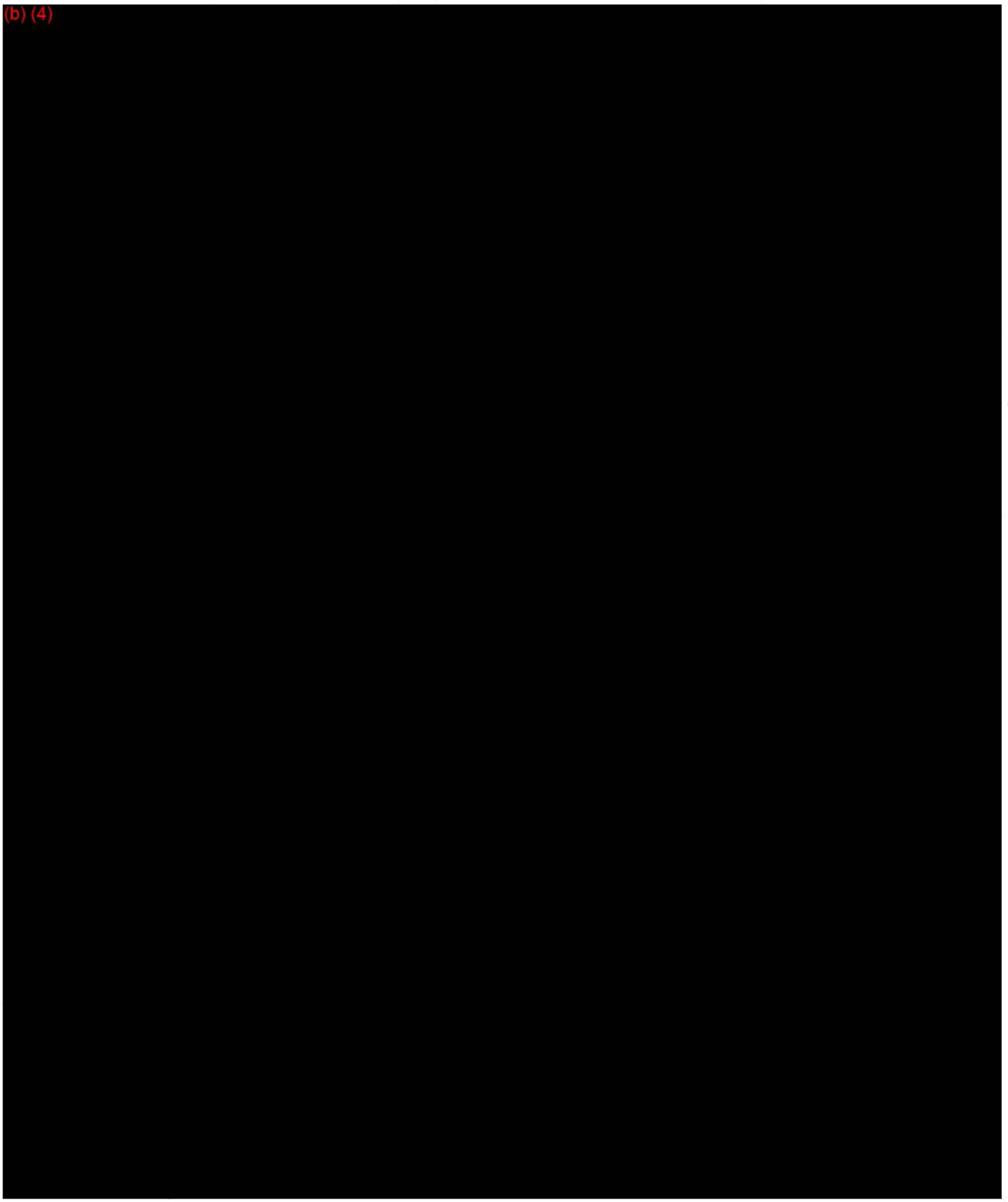
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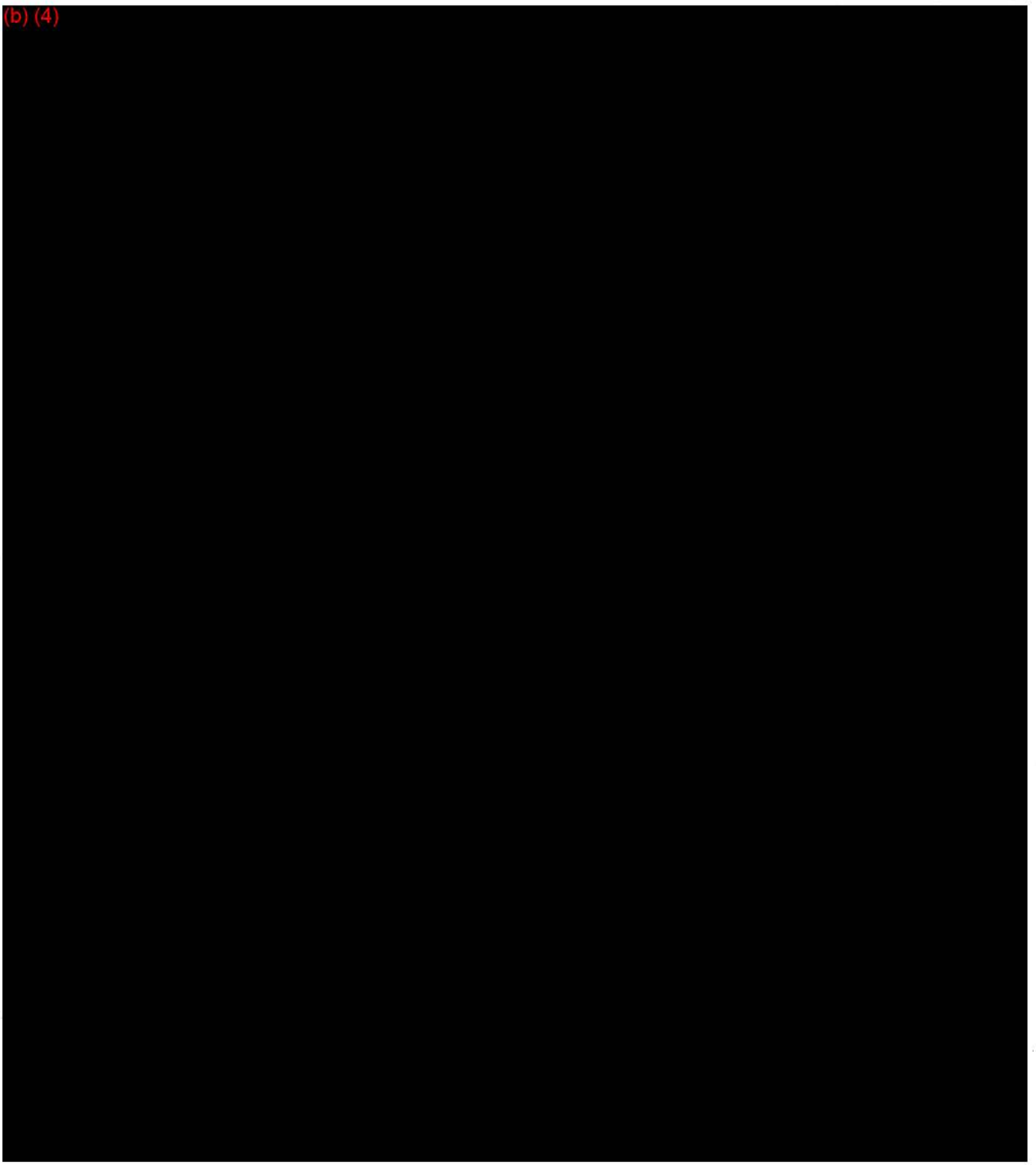
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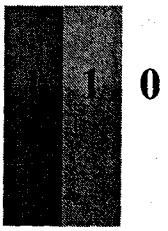
MacDermid

245 Freight Street – Waterbury, CT 06702
Telephone (203)575-5700 – Fax (203)575-5630



MATERIAL SAFETY DATA SHEET

PRODUCT ERIFON 818 **ISSUE DATE** 10/03/2006
PRODUCT CODE 174907

24 Hour Emergency Number: CHEMTREC(1-800-424-9300)

SECTION 1 PRODUCT IDENTIFICATION

TRADE NAME ERIFON 818
CHEMICAL FAMILY ORGANIC MIXTURE

NFPA RATING:

1	**Health**	1	**Flammability**
0	**Reactivity**		**Other**

(0 = Insignificant, 1 = Slight, 2 = Moderate, 3 = High and 4 = Extreme)

SECTION 2 HAZARDOUS INGREDIENTS

MacDermid has concluded that the ingredients in this product may pose a minor hazard or slight risk under certain conditions for some individuals.

Chemical Name	CAS#	By Weight%
ETHYLENE GLYCOL	107-21-1	40 - 50
TRIETHANOLAMINE	102-71-6	1 - 3

SECTION 3 PHYSICAL DATA

DENSITY	9.049 LB/GL	**FORM**	Liquid
SPECIFIC GRAVITY	1.085	**PH**	9.3
FREEZING POINT	Not determined	**FLASH POINT**	> 212 °F > 100 °C Method not listed
VAPOR PRESSURE	Not determined	**% VOC**	45
BOILING POINT	> 212 °F > 100 °C	**MELTING POINT**	Not determined
CHEMICAL OXYGEN DEMAND (COD)	Not determined		
BIOLOGICAL OXYGEN DEMAND (BOD)	Not determined		
SOLUBILITY IN WATER	Soluble		
COLOR/ODOR	Green/mild		

NOTE: These physical properties are typical values for this product.

SECTION 4	FIRE AND EXPLOSION DATA
FLASH POINT	> 212 °F > 100 °C Method not listed
EXTINGUISHING MEDIA	Dry chemical, carbon dioxide, foam, water. As appropriate for surrounding material.
UNUSUAL FIRE & EXPLOSION HAZARDS	When heated to decomposition, toxic fumes are emitted. Wear self-contained breathing apparatus/protective clothing.

SECTION 5	FIRST AID DATA
EYES	Flush with water for 15 minutes. Obtain medical aid IMMEDIATELY.
SKIN	Wash contaminated skin with large amounts of soap and water. Remove and isolate contaminated clothing. If irritation develops, get medical aid.
INGESTION	Rinse mouth with water. Give water to drink. Obtain medical aid immediately. Induce vomiting if advised by physician.
INHALATION	Remove the victim to a cool uncontaminated area. Monitor for respiratory distress.
CAUTION	If unconscious – having trouble breathing – or in convulsions do not induce vomiting or give water.

Always clean contaminated clothing and gear prior to reuse. NEVER administer anything to an unconscious person.

SECTION 6	HEALTH EFFECTS DATA

Primary Route(s) of Exposure: Eye, Skin, Inhalation and Ingestion

EYE CONTACT (ACUTE)	May cause irritation, tears, blurred vision and redness to the eyes.
EYE CONTACT (CHRONIC)	There are no known chronic effects associated with this material.
SKIN CONTACT (ACUTE)	May cause irritation to the skin.
SKIN CONTACT (CHRONIC)	There are no known chronic effects associated with this material.
INGESTION (ACUTE)	May cause abdominal discomfort, nausea, vomiting, central nervous system effects, convulsions and coma, Cardiac failure and pulmonary edema may develop. Severe kidney damage follows the swallowing of large volumes of ethylene glycol. May be fatal.
INGESTION (CHRONIC)	Chronic overexposure to ethylene glycol may aggravate an existing kidney disease.
INHALATION (ACUTE)	Vapors/mists: Exposure to vapors or mists is possible and may produce irritation of the mucous membranes of nose, mouth, throat and respiratory tract. Large amounts may cause difficulty in breathing and be harmful. Headache or nausea may occur.
INHALATION (CHRONIC)	Chronic exposure may affect central nervous system.

SECTION 7 PERSONAL PROTECTIVE DATA

RESPIRATORY PROTECTION	If there is a value for OSHA-PEL/ACGIH-TLV in section 13 and it is exceeded, it is recommended that a NIOSH approved respirator be used. Consult with your Industrial Hygienist for appropriate cartridge selection and use. See 29CFR 1910.134 for details. For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a positive pressure, self contained breathing apparatus is recommended.
VENTILATION	General ventilation is recommended. Additionally, local exhaust ventilation is recommended where vapors, dusts, mists or aerosols may be released.
PROTECTIVE EQUIPMENT	Chemically resistant apron, boots and gloves. Recommended material of construction: PVC, rubber, neoprene. The availability of a safety shower is recommended. If clothing is contaminated, remove clothing and thoroughly wash the affected body area. Launder contaminated clothing before reuse.Wear safety glasses or splash proof goggles, face shield. The availability of an eye wash is recommended. These are general recommendations to provide a safe level of protection for various material handling conditions. Consult with your Safety Professional/Industrial Hygienist for specific information regarding applications at your facility

These are general recommendations to provide a safe level of protection for various material handling conditions. Consult with your Safety Professional/Industrial Hygienist for specific information regarding applications at your facility.

SECTION 8 TOXICOLOGY DATA

TOXICITY STUDIES:

Toxicity studies have not been conducted on this product. However toxicity literature surveys have been conducted on the ingredient(s) in section 2. The results are as follows:

ACUTE ORAL TOXICITY	Ethylene glycol- orl-rat LD50: 4700 mg/kg
ACUTE DERMAL TOXICITY	Ethylene glycol- skn-rbt LD50: 19530 mg/kg
ACUTE RESPIRATORY TOXICITY	Ethylene glycol- ihl-hmn TCLo: 10000 mg/m3
OTHER TOXICOLOGICAL EFFECTS	Ethylene glycol: human poison by ingestion. Human systemic effects by ingestion and inhalation: abdominal pain, headache, cough, nausea, vomiting, pulmonary, kidney and liver changes. If ingested, it causes initial central nervous system stimulation followed by depression. Later, it causes potentially lethal kidney damage. Very toxic in particulate form upon inhalation. An experimental teratogen. A mucous membrane and eye irritant, particularly from mist.

Listed as suspected carcinogen by:

IARC NO **NTP** NO **OSHA** NO

SECTION 9 REACTIVITY DATA

INCOMPATABILITY	Oxidizers
HAZARDOUS DECOMPOSITION PRODUCTS	Thermal decomposition may yield carbon monoxide and/or carbon dioxide.
STABILITY	Stable
HAZARDOUS POLYMERIZATION	No hazardous polymerization.

SECTION 10 SPILLS & DISPOSAL DATA

In case of Transportation Accidents, call the following 24 hour telephone number: CHEMTREC (1-800-424-9300)

SPILL CONTROL AND RECOVERY	Soak up into inert absorbent material. DO NOT use sawdust or other organic materials. Collect for disposal in plastic recovery drum. Flush residue with plenty of water to chemical drain.
DISPOSAL	Dispose of by an approved method at an approved secure facility.

Please ensure that packaging, including drums, are disposed of in a responsible manner and in accordance with federal, and your state's, solid/hazardous waste regulations. You may want to refer to www.reuseablepackaging.org for further disposal guidance.

Due to more restrictive waste disposal regulations, NEVER wastetreat or dispose of material until you check your appropriate local, state, & federal regulations for requirements. Spills may REQUIRE notification to FEDERAL, STATE and/or LOCAL AUTHORITIES.

SECTION 11 TRANSPORTATION DATA

DOT

PROPER SHIPPING NAME

If Qty less than RQ: NON REGULATED
If Qty equal or greater than RQ: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS ETHYLENE GLYCOL)

HAZARD CLASS / SUBSIDIARY CLASS 9
UN/NA# UN3082
REPORTABLE QUANTITY (RQ) 999 GL **Pkg Group** III

IMO

PROPER SHIPPING NAME

ORGANIC ADDITIVE
NON REGULATED

HAZARD CLASS / SUBSIDIARY CLASS
UN/NA # **Pkg Group**

IATA

PROPER SHIPPING NAME

If Qty less than RQ:
If Qty equal or greater than RQ: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

HAZARD CLASS / SUBSIDIARY CLASS 9
UN/NA # UN3082 **Pkg Group** III

EXPORT LICENSE MAY BE REQUIRED TO EXPORT THIS PRODUCT

SECTION 12 GENERAL STORAGE DATA

STORAGE TEMPERATURE Maximum: 120 °F 48.8 °C Minimum: Not Applicable
STORAGE INFORMATION Store in a cool, dry area.

OZONE DEPLETING SUBSTANCES
This product does not contain ingredient(s) listed on Ozone Depleting Substances of CAA 40 CFR 82.

STATE REGULATIONS

CALIFORNIA PROPOSITION 65
This product does not contain ingredient(s) listed on California Prop 65 suspected carcinogen/reproductive toxicant list.

MICHIGAN CRITICAL MATERIALS
This product does not contain ingredient(s) listed on the Michigan Critical Material Register.

The information listed above does not include all Federal, State, and International regulations. The regulations listed above may change from time to time; It is the users responsibility to keep advised of current regulatory requirements.

Prepared by MacDermid Safety & Regulatory Compliance Department, based upon publicly available reference information.

SECTION 14 USER NOTIFICATION

To the best of our knowledge the information contained herein is correct. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. Users of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HERE UNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN OR THE CHEMICAL TO WHICH THE INFORMATION REFERS.

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MacDermid CANNING Ltd.
223 N. Brockman - Pasadena, TX 77506
Telephone (713)472-5081 - FAX (713)472-2440

1 [redacted] 0 -
Health | Flammability | Reactivity | Other

MATERIAL SAFETY DATA SHEET

PRODUCT	SHAFFER EPF	**ISSUE DATE**	12/06/99
PRODUCT CODE	74959	**REVISED DATE**	3/1/2002

24 Hour Emergency Number: CHEMTREC(1-800-424-9300) 1

SECTION 1 :- PRODUCT IDENTIFICATION

TRADE NAME	SHAFFER EPF
CHEMICAL FAMILY	ORGANIC MIXTURE
FORMULA	Proprietary Mixture

HMIS RATING:

1	**Health**	1	**Flammability**
0	**Reactivity**	-	**Other**

(0 = Insignificant, 1 = Slight, 2 = Moderate, 3 = High and 4 = Extreme)

SECTION 2 :- COMPOSITION / INFORMATION ON INGREDIENTS

MacDermid Inc. has identified the following chemical ingredient(s) as hazardous.

Ingredient	CAS#	By Weight %
Ethylene glycol	107-21-1	55 - 65
Morpholine	110-91-8	1 - 6

SECTION 3 :- PHYSICAL DATA

DENSITY	9.05 Lb/Gl	**FORM**	Liquid
SPECIFIC GRAVITY	1.085	**PH**	9.4
FREEZING POINT	Unknown	**FLASH POINT**	>200 F / 93.33 C ASTM D 92
VAPOR PRESSURE	Unknown	**VOLATILE %**	Unknown
BOILING POINT	212 F 100 C	**MELTING POINT**	Unknown

CHEMICAL OXYGEN DEMAND (COD) Unknown mg/l
BIOLOGICAL OXYGEN DEMAND (BOD) Unknown
SOLUBILITY IN WATER Complete
COLOR/ODOR Water white/mild

NOTE : These physical properties are typical values for this product.

SECTION 4 :- FIRE AND EXPLOSION DATA

FLASH POINT >200 F / 93.33 C ASTM D 92

EXTINGUISHING MEDIA Dry chemical, carbon dioxide, foam, water. As appropriate for surrounding material.
NEVER allow run-off to enter sewers or waterways.

UNUSUAL FIRE & EXPLOSION HAZARDS When heated to decomposition toxic fumes are emitted Wear self-contained breathing apparatus/protective clothing

SECTION 5 :- FIRST AID DATA

EYES Take the victim immediately to the nearest eyewash or shower Wash affected eyes under slowly running water for 15 minutes Seek medical attention immediately.

SKIN	Remove contaminated clothing. Wash skin with soap & water. If irritation develops, contact a physician.
INGESTION	If ingested rinse the mouth and throat liberally with water Do not induce vomiting. Contact physician immediately
INHALATION	Remove the victim to cool uncontaminated area Monitor the patient for respiratory distress
CAUTION	If unconscious - having trouble breathing - or in convulsions do not induce vomiting or give water.

Always clean contaminated clothing and gear prior to reuse. NEVER administer anything to an unconscious person.

SECTION 6 :- HEALTH EFFECTS DATA

Primary Route(s) of Exposure : Eye, Skin, Inhalation and Ingestion

EYE CONTACT (ACUTE)	Brief exposure may cause burning tearing redness swelling
EYE CONTACT (CHRONIC)	May cause eye injury which may persist for several days. May cause more damage to people with opthomological problems.
SKIN CONTACT (ACUTE)	May cause irritation to the skin.
SKIN CONTACT (CHRONIC)	SENSITIZATION/DERMATITIS Prolonged or repeated contact may cause irritation and absorption through the skin and may cause systemic illness such as skin sensitization. Persons susceptible to dermatitis (skin rash) may aggravate their condition by skin contact with this product.
INGESTION (ACUTE)	The substance is moderately toxic if swallowed. May cause nausea vomiting diarrhea Material is toxic by ingestion causing systemic illness.
INGESTION (CHRONIC)	Stomach or abdominal pain may develop. Systemic effects may develop from ingestion.
INHALATION (ACUTE)	Irritation of mucous membrane of nose/mouth/throat may occur No effects likely except through misting

SECTION 7 :- PERSONAL PROTECTIVE DATA

RESPIRATORY PROTECTION	If there is a value for OSHA-PEL/ACGIH-TLV in section 13 and it is exceeded, it is recommended that a NIOSH approved respirator be used. Consult with your Industrial Hygienist for appropriate cartridge selection and use. See 29CFR 1910.134 for details. For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a pressure demand, self contained breathing apparatus is recommended.
VENTILATION	General ventilation is recommended. Additionally, local exhaust ventilation is recommended where vapors, dusts, mists or aerosols may be released.
PROTECTIVE EQUIPMENT	Chemically resistant apron, boots and gloves. Recommended material of construction: PVC, rubber, neoprene. The availability of a safety shower is recommended. If clothing is contaminated, remove clothing and thoroughly wash the affected body area. Launder contaminated clothing

EPAHO103001258

before reuse.
Safety glasses and/or splash proof goggles, face shields and the availability of an eye wash is recommended. Consult with your Safety Professional/Industrial Hygienists for specific information regarding applications at your facility.

These are general recommendations to provide a safe level of protection for various material handling conditions. Consult with your Safety Professional/Industrial Hygienist for specific information regarding applications at your facility

SECTION 8 :- TOXICOLOGY DATA

TOXICITY STUDIES :

Toxicity studies have not been conducted on this product. However toxicity literature surveys have been conducted on the ingredient(s) in section 2. The results are as follows:

ACUTE ORAL TOXICITY	Morpholine: LD50 = 1600 mg/kg (Rat)
ACUTE DERMAL TOXICITY	Ethylene Glycol: LD50 = 9530 mg/kg (Rabbit)
ACUTE RESPIRATORY TOXICITY	Morpholine: LD50 = 12000 mg/m3 (Mammal Species unspecified)

Listed as suspected carcinogen by :

IARC NO **NTP** NO **OSHA** NO

SECTION 9 :- REACTIVITY DATA

INCOMPATIBILITY	Strong oxidizing agents
HAZARD DECOMPOSITION PRODUCTS	Oxides of nitrogen and carbon.
STABILITY	Stable
HAZARDOUS POLYMERIZATION	No hazardous polymerization.

SECTION 10 :- SPILLS & DISPOSAL DATA

In case of Transportation Accidents, call the following 24 hour telephone number : CHEMTREC (1-800-424-9300)

SPILL CONTROL AND RECOVERY	Soak up into inert absorbent material. DO NOT use sawdust or other organic materials. Collect for disposal in plastic recovery drum. Flush residue with plenty of water to chemical drain. Avoid discharge to waterways or sewer systems.
DISPOSAL	Dispose of by an approved method at an approved secure facility. Do not discharge to waterways or sewer systems without proper authorization.

Please ensure that packaging, including drums, are disposed of in a responsible manner and in accordance with federal, and your state's, solid/hazardous waste regulations. You may want to refer to www.reusablepackaging.org for further disposal guidance.

Due to more restrictive waste disposal regulations, NEVER wastetreat or dispose of material until you check your appropriate local, state, & federal regulations for requirements. Spills may REQUIRE notification to FEDERAL, STATE and/or LOCAL AUTHORITIES.

EPAHO103001259

SECTION 11 :- TRANSPORTATION DATA

DOT PROPER SHIPPING NAME If Qty less than RQ: NON REGULATED
If Qty equal or greater than RQ: ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID N.O.S.
(CONTAINS ETHYLENE GLYCOL)

HAZARD MISCELLANEOUS

UN/NA# UN3082

DOT REPORTABLE QUANTITY (RQ) 920 GL **Pkg Grp** III

IMO NAME PLATING ADDITIVE 000000

IMO Class/Sub Class 0

UN/NA# 000000 **Pkg Grp**

IATA NAME If Qty less than RQ: PLATING ADDITIVE
If Qty equal or greater than RQ: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

IATA Cls/Sub Cls MISCELLANEOUS

UN/NA# If Qty less than RQ: 000000 **Pkg Grp** III
If Qty equal or greater than RQ: UN3082

EXPORT LICENSE MAY BE REQUIRED TO EXPORT THIS PRODUCT

SECTION 12 :- GENERAL STORAGE DATA

STORAGE TEMPERATURE : Maximum: °F °C Minimum:

Material should be stored in the properly sealed original container
Store in a cool, dry area.

SECTION 13 :- REGULATORY DATA

The following regulations apply to this product.

FEDERAL REGULATIONS

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:
Based on our evaluation, the following ingredients in this product are subject to this rule:

Chemical Name	CAS#	By Weight%	OSHA-PEL	ACGIH-TLV
Ethylene glycol	107-21-1	55 - 65	N/A	100 mg/m3
Morpholine	110-91-8	1 - 6	20 PPM	20 PPM

CERCLA/SUPERFUND, 40 CFR 117, 302/304 : Notification of spills of this product is required

SARA/SUPERFUND AMENDMENTS & REAUTHORIZATION ACT OF 1986 (TITLE III)

Sections 302, 311, 312 & 313

EPAHO103001260

SECTION 302 : Extremely Hazardous Substances
This product does not contain ingredient(s) as listed in APPENDIX A of 40 CFR 355.

SECTIONS 311 & 312 - M.S.D.S REQUIREMENTS (40 CFR 370)
This product contains ingredient(s) that may require reporting under Hazardous Chemical Inventory Reporting

☒ **Immediate (Acute) health hazard** ☐ **Sudden release of pressure hazard**
☒ **Delayed (Chronic) health hazard** ☐ **Reactive Hazard**
☐ **Fire hazard**

Under Section 311, submittal of MSDS or a list of product names to the local emergency planning commission, state emergency response commission, the local fire department is required after October 17, 1987. Consult the regulation for pertinent changes and updates.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372)
This product does not contain ingredient(s) listed under 40 CFR 372.65

Ingredient	CAS#	By Weight %
Ethylene glycol	107-21-1	55 - 65

TOXIC SUBSTANCE CONTROL ACT (TSCA)

TOXIC SUBSTANCE CONTROL ACT (TSCA): The chemical ingredient(s) in; this product are listed on the 8(b) Inventory List (40 CFR 710).

RESOURCE CONSERVATION & RECOVERY ACT (RCRA), 40 CFR 261 SUBPARTS C & D

Please refer to section 10, disposal information for pertinent data.

TOTAL TOXIC ORGANICS
This product does not contain ingredient(s) on the list of Total Toxic Organics.

OSHA PROCESS SAFETY (1910.119)
This product does not contain ingredient(s) listed in APPENDIX A of 29 CFR 1910.119 of Highly Hazardous Chemicals, Toxics, and Reactives of OSHA process safety management.

CLEAN AIR ACT
This product contains ingredient(s) listed on the Hazardous Air Pollutants of CAA 40 CFR 112(G).

Ingredient	CAS#	By Weight %
Ethylene glycol	107-21-1	55 - 65

OZONE DEPLETING SUBSTANCES
This product does not contain ingredient(s) listed on Ozone Depleting Substances of CAA 40 CFR 82.

STATE REGULATIONS

CALIFORNIA PROPOSITION 65

This product does not contain ingredient(s) listed on California Prop 65 suspected carcinogen List.

MICHIGAN CRITICAL MATERIALS

EPAHO103001261

This product does not contain ingredient(s) listed on the Michigan Critical Material Register.

The information listed above does not include all Federal, State, and International regulations. The regulations listed above may change from time to time; it is the users responsibility to keep advised of current regulatory requirements.

Prepared by MacDermid - Canning Ltd. Safety & Regulatory Compliance Department, based upon publicly available reference information.

SECTION 14 :- USER NOTIFICATION

To the best of our knowledge the information contained herein is correct. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. Users of any chemical should satisfy themselves that the conditions and methods of use assure that the chemical is used safely. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER NATURE ARE MADE HERE UNDER WITH RESPECT TO THE INFORMATION CONTAINED HEREIN OR THE CHEMICAL TO WHICH THE INFORMATION REFERS.

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EPAHO103001262

Enterprise 2226
2226

EPAHO103001263

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/31/2007**

Dear **Wesley Heefner**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2226

Generator: Enterprise Products (Manvel)
Address: 9315 Uzell
Manvel, TX 77578

Waste Information

Name of Waste: TPH soil
TCEQ Waste Code #: FHVD3011
Container Type:
Detailed Description of Process Generating Waste:
Clean up of oil product spill
Color: brown **Odor:** slight oil **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Enterprise Products Operating L/P Station 812		
Address:	9315 Uzzell Road		
City, State, Zip:	Manvel, TX 77578		
Contact:	Harvey Wagner	Title:	Operations Supervisor
Phone No:	281-331-4693	Fax No:	281-331-0672
24/hr Phone:	CES-713-417-5737		
U.S. EPA I.D. No:	CESQG		
State I.D.	XXX12	SIC Code:	N/A

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:	Kathleen Ballinger	Title:	Accounts Payable
Phone No:	281-331-4693	Fax No:	281-331-0672

SECTION 3: General Description of the Waste

Name of Waste: TPH Soil
Detailed Description of Process Generating Waste: Clean-up of oil product spill

Physical State: ☐ Liquid ☐ Sludge ☐ Powder
☒ Solid ☐ Filter Cake ☐ Combination

Color: brown Odor: slight oil

Specific Gravity (water=1): 1.4 Density: 10 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☒	Drum	☐ Tote	☐ Truck	☐	Other (explain)	
Container Size:		55	____	____		____	

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly ☒ one time
Number of Units (containers): 1-3 Other: ____
Texas State Waste Code No: FHVD3011
Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material
Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
None	neutral	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

EPAHO103001265

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Soil with traces of oil product	100	%
containing diesel fuel	0-10	%
gasoline	0-10	%
oily water condensate	0-10	%
Trash, PPE etc.	0-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
analysis

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ____
TCLP Volatiles: ____
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Wesley Heefner **Date:** 6/5/07

Printed Name/Title: Wesley Heefner / Field Env. Engr.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Barbara Thompson Additional Information: 45°/Drum

Date: 6-6-07 Approved Rejected + Trans.

Approval Number: 2226 15

EPAHO103001266

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001267

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536
Phone: (281)-476-4534 Fax: (281)-476-4406

CES Environmental Services
4904 Griggs Rd
Houston, TX 77021

Phone: (713) 676-1460
Fax: (713) 676-1676

Attn: **Gary Brauckman**

- CERTIFICATE OF RESULTS -

MES Lab#: 7050710

Client Sample ID: TPH Soil
Extended ID: Enterprise - Manvel

Sample Collect Date: 5/24/2007 @ 9:30:00 AM **Sample Type:** Comp
Sample Receipt Date: 5/24/2007 @ 3:45:00 PM

Test Group / Method

TCLP Metals (8) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: HDGIL Date / Time
Arsenic	0.014	5	**0.020**	**mg/L**	5/31/2007 / 7:40 PM
Barium	0.0005	100	**0.445**	**mg/L**	5/31/2007 / 7:40 PM
Cadmium	0.002	1	< 0.002	mg/L	5/31/2007 / 7:40 PM
Chromium	0.002	5	**0.008**	**mg/L**	5/31/2007 / 7:40 PM
Lead	0.005	5	**0.005**	**mg/L**	5/31/2007 / 7:40 PM
Selenium	0.024	1	< 0.024	mg/L	5/31/2007 / 7:40 PM
Silver	0.002	5	< 0.002	mg/L	5/31/2007 / 7:40 PM

TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: AM Date / Time
Mercury	0.0002	0.2	< 0.0002	mg/L	5/25/2007 / 3:28 PM

TCLP Benzene Method: SW-846 8260B	MDL	RL	Result	Units	Analyst: TFR Date / Time
Benzene	0.050	0.5	< 0.050	mg/L	5/31/2007 / 6:27 AM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Monday, June 04, 2007

Holland D. Gilmore, Laboratory Director **Date**

EPAHO103001268

7050710

MERCURY ENVIRONMENTAL SERVICES
QA/QC REPORT

SURROGATE SPIKE RECOVERY FOR VOLATILES	% REC
Dibromofluoromethane	100.1
Toluene-d8	98.6
4-Bromofluorobenzene	96.7

ANALYTE	MB mg/L	LCS %REC	LCSD %REC	RPD	CCB mg/L	CCV %REC	MS %REC	MSD %REC	RPD
Arsenic	< 0.002	94	94	0.7	< 0.002	91	76.4	77.2	1.04
Barium	< 0.002	105.0	105	0.43	< 0.002	101	65.2	67.7	3.8
Cadmium	< 0.001	109.4	110.9	1.32	< 0.001	107	70.9	72.0	1.5
Chromium	< 0.001	109	107	2.50	< 0.001	103	70.0	72.2	3.0
Lead	< 0.002	106.1	109.2	2.90	< 0.002	107	67.7	71.9	6.1
Mercury	< 0.0002	101.0	97.5	3.53	< 0.0002	102.0			
Selenium	< 0.024	106.1	91.4	16.7	< 0.024	87	64.9	61.8	5.0
Silver	< 0.001	110	109	0.91	< 0.001	104	73.4	75.6	3.06

Key to QA Abbreviations

MS=Matrix Spike
MSD=Matrix Spike Duplicate
RPD=Relative Percent Deviation
MB=Method Blank
LCS=Laboratory Control Standard
CCV=Continuing Calibration Verification
CCB=Continuing Calibration Blank
%Rec=Percent Recovery

Signature: _____
Holland D. Gilmore / Laboratory Director

June 4, 2007

MES - CHAIN OF CUSTODY

1-800-771-4MES
(281) 476-4534
Fax (281)-476-4406

Mercury Environmental Services
6913 Hwy. 225 • Deer Park, TX 77536

1 COMPANY NAME: (BILL TO:) CES Environmental

COMPANY ADDRESS:

CITY _____ STATE _____ ZIP _____

CONTACT PERSON'S NAME: Gary Brackman

CONTACT PERSON'S PHONE: 713-417-5737 FAX #:

2

YOUR PROJECT NO.:	YOUR P.O. #:	YOUR PROJECT NAME:
Enterprise-manvel	6.0 ENT-manvel	Enterprise-manvel-soil

PROJECT ADDRESS: manvel

4 PARAMETERS FOR ANALYSIS

YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATRIX	TCLP 6 Metals	TCLP Benzene						NUMBER OF CONTAINERS	PRESERVATIONS
TPH soil	C	5-24-07	9:30	Solid	✓	—							

3

5 REMARKS

TURNAROUND TIME: STD

DETECTION LIMITS SPECIAL LIMITS REQUIRED: Yes No

Please circle one, if Yes, please describe below or include separate sheet detailing requirements.

ON ICE

6

PERSON TAKING SAMPLE SIGNATURE (a. - Print Name & b. - Sign.): a. Gary Brackman b.

RELINQUISHED BY: (Signature) — DATE 5-24-07 — TIME 13:14

RECEIVED BY: (Signature)

7

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

METHOD OF PAYMENT	SHIPPED BY: (Signature)	COURIER (Signature)	RECEIVED FOR MES BY: (Signature)	DATE	TIME
				5/24/07	1545

8 Sample Remainder Disposal

☐ Return Sample Remainder To Client Via _____

☒ Request Lab To Dispose Of All Sample Remainders

(Signature) _____ (Date) 5-24-07

Form # MES - CCRI

WHITE & CANARY – Shipped with Sample **PINK – Retained by Customer** **WHITE – Returned with Report**

PAGE 03
MES -2814764406
06/04/2007 09:53
EPAHO103001270

TO Dan Bowman

ASSOCIATED MACHINE TOOL TECHNOLOGIES, INC.

dba AmTTech
5218 BRITTMOORE ROAD, HOUSTON, TX 77041

RE: CREDIT INFORMATION

TO: **CES Environmental Services**
ATTN: **Credit Department**

DATE: June 4, 2007

PHONE: (713) 676-
FAX: (713) 676-1676

FROM: Anne Beauregard, Treas.

PHONE: (713) 983-9100
FAX: (713) 983-9099

FID # 76-0332113 **Incorporated 1/91 Texas**

Purchase Orders are REQUIRED for all purchases placed on our account.

Per your request here is the information on our bank and trade references:

Sterling Bank 840 Gessner, Ste 100, Houston, TX 77024 Phone (713) 507-7878
Officer: Craig Brothers Checking # 61037338

TRADE REFERENCES:

Doosan Infracore, Barbara Kim 8 York Ave., West Caldwell, NJ 07006	Phone (973) 618-2516 FAX (973) 618-2501
Atlas Machinery Movers, Ben or Kim PO Box 173, South Houston, TX 77587	Phone (713) 941-0031 FAX (713) 941-2855
Satelitte Specialized Freight, Doug Robbins 102 N.W. Newport Ave, Bend, OR 97701	Phone (800) 578-0956 FAX (541) 772-9949

Palmer Logistics 2227
2227

EPAHO103001272

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **6/7/2007**

Dear **Jennifer Bauer**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2227

Generator: Palmer Logistics
Address: 1020 Lockwood
Houston, TX 77020

Waste Information

Name of Waste: Octimax 4920
TCEQ Waste Code #: CESQ1192
Container Type:
Detailed Description of Process Generating Waste:
Unused off spec product
Color: yellow **Odor:** specific **pH:** na
Physical State:
Incompatibilities: none known
Safety Related Data/Special Handling:
standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Palmer Logistics		
Address:	1020 Lockwood		
City, State, Zip:	Houston, Tx 77020		
Contact:	Jennifer Baur	Title:	Operations Director
Phone No:	302-266-6000 ext. 289	Fax No:	302-266-7076
24/hr Phone:			
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	SIC Code:	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	02 Diesel		
Address:	100 Commerce Dr. Suite 301		
City, State, Zip:	Newark, DE 19713		
Contact:	Jennifer Baur	Title:	Operations Director
Phone No:	302-266-6000 ext. 289	Fax No:	302-266-7076

SECTION 3: General Description of the Waste

Name of Waste: Octimax 4920
Detailed Description of Process Generating Waste: Un-used off-spec product

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: yellow Odor: ____

Specific Gravity (water=1): .958 Density: 7.98 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 16 Other: ____
Texas State Waste Code No: ~~CESQG-XX~~ CESQ1192
Proper U.S. DOT Shipping Name: None RCRA/Non DOT regulated material diesel additive
Class: na UN/NA: na PG: na RQ: na

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>212 F	n/a	n/amg/l	n/amg/l	n/a%

Oil&Grease	TOC	Zinc	Copper	Nickel
<1000 mg/l	n/amg/l	n/amg/l	n/amg/l	n/amg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
OChMax 4920	100	90

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	X
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: J Baur **Date:** 6/6/07

Printed Name/Title: Operations Director- Jennifer Baur

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	**Process Facility Information:**
Compliance Officer: Robert Thorpe Date: 6-7-07 (Approved) Rejected Approval Number: 2227	$85/drum trans-4 hr min @ $70/hr Fuel surcharge 18%

EPAHO103001275

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☒ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001276

302. 406 6021 266 7076 fax

Octimax™ 4920
Material Safety Data Sheet

1 Company Identification

Octel Starreon LLC
8375 S. Willow Street
Littleton, CO 80124

Product information 1-800-873-8711
Medical Emergency 1-800-424-9300
Chemtrec 1-800-424-9300

2 Composition / Ingredient Information

Material	CAS Number	%
Mixture of nonionic surfactants		
Alcohols, C9-11, ethoxylated		>20
Amides, C16-18 unsaturated, N,N(bis(hydroxethyl))		>20

*Disclosure as a toxic chemical is required under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

3 Hazardous Identification

Potential Health Effects

Irritant. Risk of serious damage to eyes. Avoid contact with eyes.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

4 First Aid Measures

Inhalation

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

Skin Contact

Flush skin with water after contact. Wash contaminated clothing before reuse.

EPAHO103001277

Eye Contact
In case of contact immediately, flush eyes with plenty of water for at least 15 minutes. Call a physician.

Ingestion
If swallowed, do not induce vomiting. Allow victim to rinse his mouth and then to drink 2-4 cupfuls of water. Never give anything by mouth to an unconscious person. Call a physician.

Notes to Physicians
Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400-ml water and mix thoroughly. Administer 5 ml/kg or 350 ml for an average adult.

Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances. Activated charcoal may induce vomiting, but may be given after emesis or lavage to absorb toxic additives. Steroid therapy in mild to moderate cases does not improve outcome. Bacterial pneumonia often occurs after exposure, but prophylactic antibiotics are not indicated and should be reserved for documented bacterial pneumonia.

5 Fire Fighting Measures

Flammable Properties
Flash Point ..... >212°F (>100°C)
Method ..... PMCC

Extinguishing Media
Water Spray, Foam, Dry Chemical, CO_2.

Fire Fighting Instructions
Wear self-contained breathing apparatus. Wear full protective equipment.

6 Accidental Release Measures

Note: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) SECTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up. Soak up with sawdust, sand, oil dry or other absorbent material. Remove source of heat, sparks, flame, impact, friction, or electricity. Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean-Up
Soak up with sawdust, sand, oil dry or other absorbent material.

Accidental Release Measures
Spills are very slippery and should be cleaned up promptly.

7 Handling and Storage

Handling (Personnel)
Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling.

EPAHO103001278

Handling (Physical Aspects)
Keep away from heat, sparks and flames.

Storage
Store in a well-ventilated place. Keep container tightly closed. Store in accordance with National Fire Protection Association recommendations.

8 Exposure Controls

Engineering Controls
Use only with adequate ventilation. Keep container tightly closed.

Personal Protective Equipment

Eye/Face Protection
Wear coverall chemical splash goggles or safety glasses.

Respirators
Where there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

Protective Clothing
Where there is potential for skin contact have available and wear as appropriate; impervious gloves, apron, pants, hood and jacket.

Exposure Limits

No data avaiable.

9 Physical and Chemical Properties

Physical Data
Appearance..... Yellow
Form ..... Liquid
Odor ..... Specific
Specific Gravity..... 0.958 @ 60/60°F (16/16°C)
Density ..... 7.98 lb/gal @ 60°F (16°C)
Solubility in water..... Emusifiable

10 Stability and Reactivity

Chemical Stability
Stable under normal temperatures and storage conditions.

Incompatibility
None known if used for its intended use.

Decomposition
None known.

EPAHO103001279

Polymerization
Will not occur.

11 Toxicological Information

Animal Data

No information avaible.

12 Ecological Information

Aquatic Toxicity:	Acute fish toxicity: LC50 = 1-10 mg prod./1 (golden orfe, DIN 38412T15 or zebra fish, ISO 7346)
Acute Bacterial Toxicity:	ECO = 1-10 mg prod./1 (oxygen consumption test with Ps. pudita)

13 Disposal Considerations

Waste Disposal
Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial and Local regulations.

14 Shipping Information

DOT

Proper Shipping Name ..... Non regulated
Hazard Class.....
I.D. No. (UN/NA).....
Packing Group.....
Marine Pollutant.....
DOT Label (s).....

IMO

Proper Shipping Name ..... Non regulated
Hazard Class.....
I.D. No. (UN/NA).....
Packing Group.....
Special Information.....
Marine Pollutant.....
IMO Label.....

Shipping Containers
Steel Drums UN1A1/Y/100

EPAHO103001280

15 US Federal Regulations

TSCA Inventory Status ..... Reported / Included

16 Other Information

NPCA-HMIS Rating

Health 1
Flammability 1
Reactivity 0

Personal Protection rating to be supplied by user depending on use conditions

---

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS: **Ann Marie Williams**
Octel-Starreon LLC
Newark, DE 19702
(800) 441-9547 or
(302) 451-1362

EPAHO103001281

Hydril HEIP 2228

~~#~~ 2228

EPAHO103001282

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Joy

Waste Pre-Acceptance/Approval Letter

Date **6/14/2007**

Dear **Lacy Lamb**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2228

Generator: Hydril HEIP
Address: 18000 Eastex Freeway
Humble, TX 77396

Waste Information

Name of Waste: Citric acid
TCEQ Waste Code #: Product
Container Type: 5 gal pail
Detailed Description of Process Generating Waste:
Unused citric acid
Color: varies **Odor:** none **pH:** .6-2
Physical State:
Incompatibilities: Oxidizers, bases
Safety Related Data/Special Handling:
standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 39048
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company:	Hydril Company		
Address:	18000 Eastex Freeway		
City, State, Zip:	Humble, TX 77338		
Contact:	Lacy Lamb	**Title:**	EH&S Manager
Phone No:	281 985-8678	**Fax No:**	281 985-8871
24/hr Phone:	713 302-7588		
U.S. EPA I.D. No:	TXD096617907		
State I.D.	33785	**SIC Code:**	N/A

SECTION 2: Billing Information –X Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Citric Acid
Detailed Description of Process Generating Waste: Unused Citric Acid solution

Physical State: X **Liquid** ☐ **Sludge** ☐ **Powder**
☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: Varies **Odor:** none

Specific Gravity (water=1): 1.24 **Density:** 12 lbs/gal

Layers: X **Single-phase** ☐ **Multi-phase**

Container Type: ☐ **Drum** ☐ **Tote** ☐ **Truck** X **Other (explain)**
Container Size: _____ _____ _____

Frequency: ☐ **Weekly** ☐ **Monthly** ☐ **Quarterly** ☒ **Yearly**
Number of Units (containers): 3 **Other:** 5 gal pail
Texas State Waste Code No: N/A – Product
Proper U.S. DOT Shipping Name: ~~Citric Acid Solution, 50% - Nonregulated~~ Non-RCRA/Non-DOT regulated mate
Class: N/A **UN/NA:** N/A **PG:** N/A **RQ:** N/A

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200	0.6-2	0mg/l	0mg/l	0%

Oil&Grease	TOC	Zinc	Copper	Nickel
0mg/l	N/Amg/l	N/Amg/l	N/Amg/l	N/Amg/l

EPAHO103001284

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Citric Acid	~~25-75~~ 50	%
Water	~~25-75~~ 50	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
~~None~~ oxidizers, bases

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	None present based on process knowledge
TCLP Volatiles:	None present based on process knowledge
TCLP Semi-Volatiles:	None present based on process knowledge
Reactivity:	None present based on process knowledge
Corrosivity:	None present based on process knowledge
Ignitability:	None present based on process knowledge

SECTION 9: Generator's Certification

The information contained herein is based on X[X] generator knowledge and/or [ ] analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Not required **Date:** 6/5/2007

Printed Name/Title:

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 6-6-07 Approved Rejected

Approval Number: 2228

Additional Information: $40 / full pail
$15 / empty pail

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES X NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☑ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001286

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☑ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001287

MATERIAL SAFETY DATA SHEET

DATE PREPARED: 01/16/2001
MSDS No: L051
Liquid Citric Acid, 50%

HydroChem®
INDUSTRIAL SERVICES, INC.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Liquid Citric Acid, 50%
Product Code: L051
Product Name: Liquid Citric Acid, 50%
Chemical Family: Organic acid, Chelant
Molecular Formula: $HOC(COOH)(CH_2COOH)_2$

MANUFACTURER:
HydroChem Industrial Services, Inc.
900 Georgia Ave.
Deer Park, TX 77536
Customer Service: (800) 934-9376

24 HR. EMERGENCY TELEPHONE NUMBERS:
Emergency Contact: HydroChem ER
Emergency Phone (800) 569-4889

2. COMPOSITION/INFORMATION ON INGREDIENTS

	wt.%	CAS Registry #
Cirtic Acid, Anhydrous	50	77-92-9
Water	50	7732 -18-5

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
IMMEDIATE CONCERNS:
Acid.
Corrosive.
Do not get in eyes, on skin or clothing.

4. FIRST AID MEASURES

EYES:
Immediately flush eyes with water for 30 minutes while holding eyelids open. Seek medical attention.

SKIN:
Immediately wash with soap and water for 30 minutes. See a doctor at once. Launder contaminated clothing before reuse. Dispose of contaminated shoes.

INGESTION:
If swallowed, give 2 glasses of milk (preferred) or water and consult physician.

INHALATION:
Remove to fresh air. See a doctor if effects occur.

5. FIRE FIGHTING MEASURES

Flashpoint and Method: >200°F 93°C
Flammable Limits: Not determined
Autoignition Temperature: Not Established

EXTINGUISHING MEDIA:
Use alcohol foam, carbon dioxide, dry chemical or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS:
Oxides of carbon and harmful organic chemical fumes.

FIRE FIGHTING PROCEDURES:
Use water fog to cool hot containers.

FIRE FIGHTING EQUIPMENT:
As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES:
Contain with dikes.
Dilute with water.
Neutralize with soda ash or lime.
Put in steel drum (plastic drum if acidic).

7. HANDLING AND STORAGE

GENERAL PROCEDURES:
Refer to Section 8.

STORAGE:
No special precautions required.
Store away from oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTION

EYES AND FACE:
Chemical goggles required and an eye wash in work area.

RESPIRATORY:
None normally needed. For protection from dust and mist, use NIOSH approved respirator with dust and mist protection.

PROTECTIVE CLOTHING:
Clean body covering and chemical resistant gloves.

OTHER USE PRECAUTIONS:
Safety shower and eye wash in the work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Color: Colorless
pH: 0.6
Percent Volatile: 50
Vapor Pressure: 11.16 mm Hg
Boiling Point: 219°F 103°C
Solubility in Water: Completely Miscible in All Proportions
Evaporation Rate: <1 (n-Butyl Acetate=1)
Specific Gravity: 1.24 (water=1)

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

HAZARDOUS DECOMPOSITION:
When heated strongly or burned, oxides of carbon and harmful organic chemical fumes are released.

INCOMPATIBLE MATERIALS:
Oxidizers, bases. Can be explosive with metal nitrates.

11. TOXICOLOGICAL INFORMATION

ACUTE

Eyes: Severe irritant. Causes pain and redness. Prolonged or repeated contact may cause mild burn.

Skin: Irritant. May cause pain, redness, dermatitis. Not likely to be absorbed in toxic amounts.

Ingestion: No effect expected. Swallowing large amounts may cause illness.

Inhalation: No effect expected. Prolonged or repeated exposure may cause mild irritation. Mist is irritating.

TARGET ORGANS:

Skin

GENERAL COMMENTS:

Carcinogens: Not listed by IARC, USA NTP, or USA OSHA.

COMMENTS:

Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented in this document. See the actual entry in RTECS for complete information.

RTECS Number: GE7350000

LC(50) = 11.7 g/kg on rats (for anhydrous citric acid)

12. ECOLOGICAL INFORMATION

GENERAL COMMENTS:

Degradability: Biodegradable.

Fish Toxicity: Low toxicity to fish.

COMMENTS:

BOD = 0.24 p/p; COD = 0.35 p/p (68% degradation in 5 days)

LC50 (P. promelas) = 200 mg/L

13. DISPOSAL CONSIDERATIONS

PRODUCT DISPOSAL:

Dispose of in accordance with ALL applicable federal, state and local regulations.

EMPTY CONTAINER:

Leave label on drum and sell drum to an approved drum reconditioner or triple rinse with an appropriate solvent, crush, and ship to sanitary landfill unless prohibited by local regulations.

RCRA/USEPA WASTE INFORMATION:
This material is not a RCRA regulated material.

COMMENTS:
Always follow ALL applicable federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)
Proper Shipping Name: Citric Acid Solution, 50% - Nonregulated
Reportable Quantity (RQ) Under CERCLA: None
Placards: None

15. REGULATORY INFORMATION

UNITED STATES
SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

Fire: No Pressure Generating: No Reactivity: No Acute: Yes Chronic: No

Title III Notes: This product contains no substances which are defined as toxic chemicals under the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372).

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)
Reportable Spill Quantity: None

TSCA (TOXIC SUBSTANCE CONTROL ACT)
TSCA Status: All components of this material are on the TSCA inventory.

STATE REGULATIONS
PROPOSITION 65 STATEMENT:
This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

16. OTHER INFORMATION

REASON FOR ISSUE:
Biannual review

Approved by: Charles M Maddin, PhD, FAIC
Approval date: 01/16/2001

REVISION SUMMARY
Revision #: 3

This MSDS replaces the November 22, 1999 MSDS. Any changes in information are as follows:
In Section 1
Date Prepared

In Section 15
SARA Title III Notes

NFPA CODES
Fire: 1 Health: 1 Reactivity: 0

HMIS CODES
Fire: 1 Health: 1 Reactivity: 0

MANUFACTURER DISCLAIMER:
[™] Indicates a trade or service mark of HydroChem Industrial Services, Inc.

The information herein is believed to be accurate and is presented in good faith; however, no warranties or representations are made by HydroChem Industrial Services, Inc. regarding the accuracy or completeness of the information.

HydroChem Industrial Services, Inc. shall not be held liable for any damage resulting from the handling, or from contact with the above product.

2229 Hutchinson - Hayes
2229

EPAHO103001294

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **6/14/2007**

Dear **Mark Atkins**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2229

Generator: Hutchinson-Hayes International, Inc.(East Belt)
Address:
Houston, TX 77015

Waste Information

Name of Waste: Oily water emulsion
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Stormwater from tank farm (emulsion)
Color: clear **Odor:** oil like **pH:** 7
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1468 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 SWR No: 30900

SECTION 1: Generator Information

Company : Hutchison Hayes International - Baytown
Address : 9400 Needlepoint
City, State, Zip : Baytown TX 77521
Contact : Angie Solis
Phone No : 281-839-0150
24 / HR Phone :
U.S EPA I.D No : TXCESQG
State I.D : CESQG
Fax : 281-839-0157
SIC Code N/A

SECTION 2: Billing Information

Company : Texas Water Management
Address : PMB#15. 8000 Research Forest DR #115
City, State, Zip : The Woodlands TX 77382
Contact : Mark Atkins
Phone No : 281 685 4420
Fax : 936 321 9792

SECTION 3: General Description of the Waste Oil/water emulsion

Name of Waste : Stormwater from Tank Farm (Emulsion)

Physical State : ☑ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color : clear Odor : Oil Like

Specific Gravity (Water=1) : .99 - 1.01 Density : 8 lbs / gal

Layers : ☐ Single-Phas ☑ Multi-Phase

Container Type : ☐ Drum ☐ Tote ☑ Truck ☐ Other (explain)

Container Size : 5000 gal

Number Of Units : 1 truck load/month

Texas State Waste Code No : Recycle

Proper U.S. State Waste Code No : Non RCRA / NOA - Not Regulated Material

Class : N/A UN/NA : N/A PG : N/A RQ : N/A

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
None	7	0 mg/l	0 mg/l	<1 %
Oil and Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
>1500 mg/l	>1500 mg/l	0 mg/l	0 mg/l	0 mg/l

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge ? ☑ YES ☐ NO

If 'YES', complete this section

PLEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE

Metals Subcategory: ***Subpart A***

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating phospha
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: ***Subpart B***

- ☐ Used oils
- ☑ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory ***Subpart C***

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bering wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcatego

☑ Oils Subcatego

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHQ103001208

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **6/12/2008**

Dear **Mark Atkins**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2229

Expiration Date 6/14/2009

Generator: Hutchison Hayes Separation (E.Belt)
Address: 3520 East Belt
Houston, TX 77015

Waste Information

Name of Waste: Oily water emulsion
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Stormwater from tank farm (emulsion)
Color: clear **Odor:** oil like **pH:** 7
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Hutchinson-Hayes International, Inc.(East Belt)
Address: ~~[illegible]~~ 3520 E. BELT
City, State, Zip: Houston TX 77015
Contact: ~~[illegible]~~ GARY PARKER Title: S.V.P.
Phone No: ~~[illegible]~~ 7134559600 Fax: ~~[illegible]~~ 713-455-7753
24 / HR Phone: 281-723-5299
U.S EPA I.D No: TXCESQG
State I.D: CESQG SIC Code na

SECTION 2: Billing Information

Company: Texas Water Management - Research Forest PMB # 15
Address: 8000 Research Forest Dr #115
City, State, Zip: The Woodlands TX 77382
Contact: Mark Atkins Title:
Phone No: (281) 865-4420 Fax: (936) 321-9792

SECTION 3: General Description of the Waste

Name of Waste: Oily water emulsion

Detailed Description of the Process Generating Waste:
Stormwater from tank farm (emulsion)

Physical State: ☑ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color: clear Odor: oil like

Specific Gravity (Water=1): .99-1.01 Density: 8 lbs / gal

Does this material contain any total phenolic compounds? ☐ Yes ☐ No
Does this material contain any para substituted phenolic compounds? ☐ Yes ☑ No
Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☐ No

2812 2813 2816 2819 2821 2822 2823 2824 2833 2834 2835 2836 2841 2842 2843 2844 2851
2861 2865 2869 2873 2874 2876 2879 2891 2892 2893 2896 2899 2911 3312 4953 4959 9511

Layers: ☐ Single-Phase ☑ Multi-Phase

Container Type: ☐ Drum ☐ Tote ☑ Truck ☐ Other (explain)

Container Size: 6000

Number Of Units: 1

Is this a USEPA "Hazardous Waste" per 40 CFR 261.3? ☐ Yes ☐ No
If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", is it: ☐ D001 ☐ D002 ☐ D003

EPAHO103001300

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristics for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☐ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☐ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code No : Recycle

Proper U.S. State Waste Code No : Non-RCRA/Non-DOT Regulated Material

Class : na UN/NA : na PG : na RQ : na

Flash Point: none	pH: 7	Reactive Sulfides: 0 mg/l	Reactive Cyanides: 0 mg/l	Solids: <1 %
Oil and Grease: >1500 mg/l	TOC: >1500 mg/l	Zinc: 0 mg/l	Copper: 0 mg/l	Nickel: 0 mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
Rain water	80-100	%
Glycol	0-10	%
Oil	2-5	%

SECTION 6: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 8: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers

SECTION 9: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generators knowledge

TCLP Metals : X
TCLP Volatiles : X
TCLP Semi-Volatiles : X
Reactivity : X

Corrosivity : X

Ignitability : X

SECTION 9: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge ? ☑ YES ☐ NO

If 'YES', complete this section

PLEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE

Metals Subcategory: ***Subpart A***

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phospha
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: ***Subpart B***

- ☐ Used oils
- ☑ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory ***Subpart C***

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bering wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations

EPAHO103001302

Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcatego
☑ Oils Subcatego
☐ Organics Subcategory

SECTION 10: Additional Instruction

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature : [signature] Date : 6/8/2007

Printed Name / Title : ~~Mark Atkins~~ / GARY L. PARKER S.V.P.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer : Prabhakar Thangudu [signature]

Date : 6/14/2007 Status : Approved Rejected

Approval Number : 2229

Process Facility Information :
This material should be more like an oily emulsion. Charge $0.16/gal as long as it breaks good and the water TOC is <50,000 ppm. Contact salesman if if $0.16/gal is too low.

GB
JR

yes

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

Waste Profile Re-Certification Form

CES Waste Approval #: **-2229**

Customer: **Texas Water Management - Research Forest PMB #15**

Waste Generator: **Hutchison Hayes Separation (E.Belt)**

Waste Stream Name: **Oily water emulsion**

Expiration Date: **6/14/2009**

As per our waste analysis plan, CES Environmental Services, Inc. requires recertification of all approved waste profiles on an annual basis. The purpose of this form is to confirm that no changes have been made in the generation process of the aforementioned waste stream and that the waste stream remains classified as non-hazardous as per 40 CFR 261.3.

Generator hereby certifies that the components in the aforementioned waste stream and the process generating this waste stream remain the same as when issued the aforementioned CES Waste Approval Number: (Check Appropriate Box)

☐ No changes, please recertify.

☐ Please send new profile as waste stream has changed.

☑ Analysis is NOT required for recertification.

☐ The following analysis is required for recertification. Please sumbit results of the following tests.

- TCLP Metals
- TCLP Volatiles
- TCLP Semi-volatiles
- Reactivity
- Corrosivity
- Ignitability

Texas Water Management, LLP
Customer Name

K. Blaschke
Signature

Accounts Manager
Company / Title

5/21/09
Date

Ventech Engg Intl Corp 2230
2230

EPAHO103001305

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **6/8/2007**

Dear **Rick Griffin/Benny/Arthur**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2230

Generator: Ventech Engineers International Corp.
Address: 1107 Broadway
Pasadena, TX 77506

Waste Information

Name of Waste: Amine oil filters
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Filtering amine oil
Color: various **Odor:** oil like, slight amine **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Ventech Engineers International Corp.		
Address:	1107 Broadway		
City, State, Zip:	Pasadena, TX 77506		
Contact:	Ernest Hernandez	**Title:**	Manager
Phone No:	713-477-0973	**Fax No:**	713-477-1183
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	NA		
State I.D.	NA	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Philip Services		
Address:	316 Georgia Ave.		
City, State, Zip:	Deer Park, TX 77536		
Contact:	Lisa Bennett	**Title:**	Accounting
Phone No:	281-476-0291	**Fax No:**	281-476-9549

SECTION 3: General Description of the Waste

Name of Waste: Amne Oil Filters
Detailed Description of Process Generating Waste: Filtering Amine Oil

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: Various **Odor:** oil like/slight amine

Specific Gravity (water=1): 1.2-1.5 **Density:** 10 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☐	**Drum**	☒	**Tote**	☐	**Truck**	☐ **Other (explain)**
Container Size:		____		1 yard		____	____

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point >140	**pH** neutral	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 100%
Oil&Grease >1500mg/l	**TOC** >1500mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Amine Oil	1-5	%
Metal filters with paper elements	95-99	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
~~none~~ analytical

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ____
TCLP Volatiles: ____
TCLP Semi-Volatiles: ____
Reactivity: ____
Corrosivity: ____
Ignitability: ____

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 6-6-07

Printed Name/Title: ERNEST HERNANDEZ
GENERAL FOREMAN

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 6-8-07 Approved Rejected

Approval Number: 2230

Additional Information: RECYCLE
$125/yd + $70/hr + FSG

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in exces of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, o nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

GB

CES Environmental Services, Inc.
4904 Griggs Rd.
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

Fax Transmittal

Total Number of Pages (Including cover sheet): 5

Date: 6-6-07

To: Ernest
Ventech

713-472-1183

From: Gary Brauckman
CES Environmental Services, Inc.
Mobile: (713) 417-5737

Notes: Ernest,

Please review correct as necessary & return w/ analysis

Thanks

Gary B

VENTECH

6-04-07

Fax

Date: 6-1-07 **To:** Gary Brockmann cell 713-417-5737

From: ERNEST HERNANDEZ **Company:** AES Environmental

Pages: 6 **Phone:** 713-477-0

VENTECH ENG. **Fax:** 713-477-1183

Below, please find information needed:

- [x] Purchase Order
- [ ] Additional Information: Need to know if this is good enough for disposing this oil and fibers.

Thanks,

Ernest Hernandez

By with Jesse Gonzalez P.S.C

Fax / Purchase Order Fax Form.doc

CHAIN OF CUSTODY

Page 1 of 1

ENVIRON EXPRESS LABORATORIES, INC.
401 North 11th. St. / La Porte, Texas 77571-3115
(281) 471-0951 / (800) 880-0156
Fax: (281) 471-5821 / After Hours: (281) 844-2308
e-mail: environexp@aol.com

Results To: CHARLIE SMITH / ERNEST HERNANDEZ	Invoice To: SAME
Company: VENTECH MANUFACTURING	Company:
Address: 1107 BROADWAY	Address:
City: PASADENA State: TX Zip: 77506	City: State: Zip:
Phone: 713 477 0973	Phone:
Fax: 713-477-1183	Fax:
e-Mail:	PO#: Quote#:

TAT (WORKING DAYS) CIRCLE ONE: 1 2 3 (5)

LAB LOT #	COC Present? (Yes) No
Shipment Sealed? (Yes) No	Samples Sealed? (Yes) No
Received on Ice? (Yes) No	Samples Intact? (Yes) No
Cooler Temp. (°C)	Preservative Shown? Yes No (NA)
Hold Time OK? (Yes) No	Res. Cl2 Check OK? Yes No (NA)
pH Check OK? Yes No (NA)	COC & Labels Agree? (Yes) No

Project Name:
Project Location:
Project No:
Sampler (Print):
Sampler (Sign):
Sampler Remarks:

Remarks & Additional Analyses: John to call about pricing on RUSH TURN.

EEL USE ONLY (LAB NO.)	SAMPLE ID.	DATE/TIME SAMPLED	[1] MATRIX	(C)OMP / (G)RAB	BTEX (8021B)	TPH (TX1005.3)	RCI	PAH	TOTAL EPA TCLP VOLATILES	SEMI-VOLS	RCRA 8 METALS
	[2] Cntr. Type								P		
	Number								2		
	Volume								8oz		
	[3] Preservative								4		
61886.01	1) AMINE POTS F3408	5/7/07 -	DL	G		X	X		X	X	X
↓ .02	2) AMINE FILTER FIBERS	5/7/07 -	SO	G		X	X		X	X	X
	3)										
	4)										
	5)										
	6)										
	7)										
	8)										
	9)										
	10)										

Relinquished By: Charlie Smith	Company: Ventech	Date/Time: 5/7/07 11:10	Received By: Julio Hinojosa	Company: ENVIRON
Relinquished By:	Company:	Date/Time:	Received By:	Company:
Relinquished By:	Company:	Date/Time:	Received By:	Company:

[1] Matrix Key
S:Soil W:Water WW:Waste Water SL:Sludge SO:Solid SE:Sediment L: Leachate WI:Wipe OR:Organic OL:Oil DS:Drum Solid DL:Drum Liquid O:Other _____

[2] Container Type Key
P:Plastic G:Glass V:VOA Glass O:Other _____

[3] Preservative Key
1:Ice(<4°C) 2:HCL 3:H2SO4 4:HNO3 5:NaOH 6:NaOH+Zn Acetate 7:Na2S2O3 8:None

Delivery of samples constitutes acceptance of Environ's terms and conditions in the Price Schedule.

5-25-07;10:50AM;Environ ;2814715821 # 5/ 5
EPAHO10301312

ENVIRON EXPRESS LABORATORIES
401 N. 11TH STREET
LA PORTE, TEXAS 77571
281/471-0951
281/471-5821 (FAX)

FACSIMILE COVER

COMPANY: Ventech

PLEASE DIRECT FOLLOWING PAGE(S) TO: C. Smith/E. Hernandez

PAGES INCLUDING COVER LETTER: 6

FAX: 713.477.1183

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Express Laboratories
401 N. 11TH. ST.
LA PORTE, TX 77571
281/471-0951 FAX:281/471-5821

INFORMATIONAL REPORT

CUSTOMER:
Ventech
SAMPLE:
AMINE POTS (61886.01)
VOC & SVOC Analysis
EPA SW846/8260B/8270C
DATE:
25-May-07

This organic sample had to be diluted for the TCLP Volatile (VOC) and Semivolatile (SVOC) because of the high concentration of non-target analytes.
The dilution caused many of the detection limits to be above the Regulatory Limit.

Process knowledge or MSDS information will have to be used to determine if those components are present in the sample and could be above the Regulatory Limit.

John Keller

John E. Keller, Ph.D.
Lab. Dir./QC Manager

ENVIRON EXPRESS LABORATORIES, INC.

401 N. 11th. St.
La Porte, TX 77571
281.471.0951 FAX:281.471.5821

Express Laboratories

CERTIFICATE OF ANALYSIS NO: 61886.01 1of 1

Customer: **Ventech** | Sample ID: **Amine Pots F6408** | Environ ID: **61886.01**
Project ID: | | Sampled: **05-17-07**
Project Loc: | Matrix: **Solid** | Received: **05-17-07**
Charge/P.O.: | Type: **Grab** | Reported: **05-25-07**

RECEIVED BASIS

ANALYTE / PARAMETER	RESULT	UNITS	REG. LIMIT	MQL	TEST METHOD	ANALYST	DATE	TIME
RCI								
Reactive Cyanide	< 50	mg/l	250	50	SW846.7.3.3	LC	05-17-07	13:20
Reactive Sulfide	< 50	mg/l	500	50	SW846.7.3.4	LC	05-17-07	13:25
Corrosivity (Ph)	11.00	su	=>2; =<12.5	--	SW846.9045C	LC	05-17-07	09:55
Ignitability	> 160	°F	> 140	--	SW846.1010	LC	05-17-07	10:30
TPH - TOTAL PETROLEUM HYDROCARBONS								
nC6 to nC12 (GRO)	253	mg/kg	--	50	TCEQ 1005.3	DB	05-21-07	17:29
> nC12 to nC28 (DRO)	3,753	mg/kg	--	50	TCEQ 1005.3	DB	05-21-07	17:29
> nC28 to nC35 (ORO)	3,951	mg/kg	--	50	TCEQ 1005.3	DB	05-21-07	17:29
TPH (Total > nC6 to nC35)	7,957	mg/kg	1,500	50	TCEQ 1005.3	DB	05-21-07	17:29
METALS (RCRA) - TCLP					SW846.1311	MN	05-17-07	
Arsenic	< 0.02	mg/l	5.00	0.02	SW846.6010B	JK	05-23-07	13:45
Barium	0.19	mg/l	100	0.02	SW846.6010B	JK	05-23-07	13:45
Cadmium	0.06	mg/l	1.00	0.02	SW846.6010B	JK	05-23-07	13:45
Chromium	61.5	mg/l	5.00	0.2	SW846.6010B	JK	05-23-07	13:45
Lead	< 0.02	mg/l	5.00	0.02	SW846.6010B	JK	05-23-07	13:45
Selenium	< 0.05	mg/l	1.00	0.05	SW846.6010B	JK	05-23-07	13:45
Silver	< 0.05	mg/l	5.00	0.05	SW846.6010B	JK	05-23-07	13:45
Mercury	< 0.002	mg/l	0.200	0.002	SW846.7470A	MN	05-18-07	09:00
VOC - TCLP (Dilution Factor: 10.0)					SW846.1311	MN	05-17-07	
Benzene	< 0.05	mg/l	0.5	0.05	SW846.8260B	TM	05-24-07	20:16
2-Butanone (MEK)	< 0.10	mg/l	200.0	0.10	SW846.8260B	TM	05-24-07	20:16
Carbon tetrachloride	< 0.05	mg/l	0.5	0.05	SW846.8260B	TM	05-24-07	20:16
Chlorobenzene	< 0.05	mg/l	100	0.05	SW846.8260B	TM	05-24-07	20:16
Chloroform (Trichloromethar	< 0.05	mg/l	6.0	0.05	SW846.8260B	TM	05-24-07	20:16
1,2-Dichloroethane (EDC)	< 0.05	mg/l	0.5	0.05	SW846.8260B	TM	05-24-07	20:16
1,1-Dichloroethene	< 0.05	mg/l	0.7	0.05	SW846.8260B	TM	05-24-07	20:16
Tetrachloroethene	< 0.05	mg/l	0.7	0.05	SW846.8260B	TM	05-24-07	20:16
Trichloroethene	< 0.05	mg/l	0.5	0.05	SW846.8260B	TM	05-24-07	20:16
Vinyl chloride	< 0.05	mg/l	0.2	0.05	SW846.8260B	TM	05-24-07	20:16
SVOC - TCLP(Conc. Factor: 1.0)					SW846.1311	MN	05-17-07	
1,4-Dichlorobenzene	< 5.00	mg/l	7.5	5.0 **	SW846.8270C	JAC	05-22-07	20:19
2,4-Dinitrotoluene	< 5.00	mg/l	0.13	5.0 **	SW846.8270C	JAC	05-22-07	20:19
Hexachlorobenzene	< 5.00	mg/l	0.13	5.0 **	SW846.8270C	JAC	05-22-07	20:19
Hexachlorobutadiene	< 5.00	mg/l	0.50	5.0 **	SW846.8270C	JAC	05-22-07	20:19
Hexachloroethane	< 5.00	mg/l	3.0	5.0 **	SW846.8270C	JAC	05-22-07	20:19
2-Methylphenol (o-Cresol)	< 5.00	mg/l	(200)	5.0	SW846.8270C	JAC	05-22-07	20:19
3&4-Methylphenol (m&p-Cre	< 5.00	mg/l	(o+m+p)	5.0	SW846.8270C	JAC	05-22-07	20:19
Nitrobenzene	< 5.00	mg/l	2.0	5.0 **	SW846.8270C	JAC	05-22-07	20:19
Pentachlorophenol	< 20.00	mg/l	100	20.0	SW846.8270C	JAC	05-22-07	20:19
Pyridine	< 5.00	mg/l	5.0	5.0	SW846.8270C	JAC	05-22-07	20:19
2,4,5-Trichlorophenol	< 5.00	mg/l	400	5.0	SW846.8270C	JAC	05-22-07	20:19
2,4,6-Trichlorophenol	< 5.00	mg/l	2.0	5.0 **	SW846.8270C	JAC	05-22-07	20:19

QUALITY CONTROL -- TCLP VOC SURROGATE RECOVERIES

SURROGATE	RESULTS (mg/l)	% RECOVERY	RANGE %
Dibromofluoromethane (SS)	0.047	94	76-114
Toluene-d8 (SS)	0.049	98	80-120
4-Bromofluorobenzene (SS)	0.051	102	80-120

QUALITY CONTROL -- TCLP SVOC SURROGATE RECOVERIES

SURROGATE	RESULTS (mg/l)	% RECOVERY	RANGE %
Nitrobenzene-d5	*	*	35-114
2-Fluorobiphenyl	*	*	43-116
Terphenyl-d14	*	*	33-141
Phenol-d5	*	*	21-100
2-Fluorophenol	*	*	10-100
2,4,6-Tribromophenol	*	*	10-123

Definitions: TCLP - Toxicity Characteristic Leaching Procedure su - Standard Units
REG - Regulatory Limit (User Should Confirm Limi VOC - Volatile Organic Compounds * Surrogates Diluted Out of Range
MQL - Method Quantitation Limit SVOC - Semivolatile Organic Compounds
PPM - Parts Per Million ** REG<MQL Use MSDS or Process Knowledge
mg/l - PPM by Volume, mg/kg - PPM by Weight

John Keller

John Keller, Ph.D
Laboratory Director

EPAHO103001315

ENVIRON EXPRESS LABORATORIES, INC.

401 N. 11th. St.
La Porte, TX 77571
281.471.0951 FAX:281.471.5821

Express Laboratories

CERTIFICATE OF ANALYSIS NO: 61886.02

Customer: **Ventech** | Sample ID: **Amine Filter Fibers** | Environ ID: **61886.02**
Project ID: | | Sampled: **05-17-07**
Project Loc: | Matrix: **Solid** | Received: **05-17-07**
Charge/P.O.: | Type: **Grab** | Reported: **05-25-07**

RECEIVED BASIS

ANALYTE / PARAMETER	RESULT	UNITS	REG. LIMIT	MQL	TEST METHOD	ANALYST	DATE	TIME
RCI								
Reactive Cyanide	< 50	mg/kg	250	50	SW846.7.3.3	LC	05-17-07	13:20
Reactive Sulfide	< 50	mg/l	500	50	SW846.7.3.4	LC	05-17-07	13:25
Corrosivity (Ph)	9.71	su	=>2; =<12.5	--	SW846.9045C	LC	05-17-07	13:15
Ignitability	> 160	°F	> 140	--	SW846.1010M	LC	05-17-07	13:40
TPH - TOTAL PETROLEUM HYDROCARBONS								
nC6 to nC12 (GRO)	< 9,124	mg/kg	--	9,124	TCEQ 1005.3	DB	05-19-07	10:49
> nC12 to nC28 (DRO)	193,102	mg/kg	--	9,124	TCEQ 1005.3	DB	05-19-07	10:49
> nC28 to nC35 (ORO)	195,657	mg/kg	--	9,124	TCEQ 1005.3	DB	05-19-07	10:49
TPH (Total > nC6 to nC35)	388,759	mg/kg	1,500	9,124	TCEQ 1005.3	DB	05-19-07	10:49
METALS (RCRA) - TCLP					SW846.1311	MN	05-17-07	
Arsenic	< 0.02	mg/l	5.00	0.02	SW846.6010B	JK	05-23-07	13:45
Barium	0.65	mg/l	100	0.02	SW846.6010B	JK	05-23-07	13:45
Cadmium	< 0.02	mg/l	1.00	0.02	SW846.6010B	JK	05-23-07	13:45
Chromium	3.48	mg/l	5.00	0.02	SW846.6010B	JK	05-23-07	13:45
Lead	< 0.02	mg/l	5.00	0.02	SW846.6010B	JK	05-23-07	13:45
Selenium	< 0.05	mg/l	1.00	0.05	SW846.6010B	JK	05-23-07	13:45
Silver	< 0.05	mg/l	5.00	0.05	SW846.6010B	JK	05-23-07	13:45
Mercury	< 0.002	mg/l	0.200	0.002	SW846.7470A	MN	05-18-07	09:00
VOC - TCLP (Dilution Factor: 10.0)					SW846.1311	MN	05-17-07	
Benzene	< 0.05	mg/l	0.5	0.05	SW846.8260B	TM	05-24-07	19:03
2-Butanone (MEK)	< 0.10	mg/l	200.0	0.10	SW846.8260B	TM	05-24-07	19:03
Carbon tetrachloride	< 0.05	mg/l	0.5	0.05	SW846.8260B	TM	05-24-07	19:03
Chlorobenzene	< 0.05	mg/l	100	0.05	SW846.8260B	TM	05-24-07	19:03
Chloroform (Trichloromethar	< 0.05	mg/l	6.0	0.05	SW846.8260B	TM	05-24-07	19:03
1,2-Dichloroethane (EDC)	< 0.05	mg/l	0.5	0.05	SW846.8260B	TM	05-24-07	19:03
1,1-Dichloroethene	< 0.05	mg/l	0.7	0.05	SW846.8260B	TM	05-24-07	19:03
Tetrachloroethene	< 0.05	mg/l	0.7	0.05	SW846.8260B	TM	05-24-07	19:03
Trichloroethene	< 0.05	mg/l	0.5	0.05	SW846.8260B	TM	05-24-07	19:03
Vinyl chloride	< 0.05	mg/l	0.2	0.05	SW846.8260B	TM	05-24-07	19:03
SVOC - TCLP (Conc. Factor: 50.0)					SW846.1311	MN	05-17-07	
1,4-Dichlorobenzene	< 0.10	mg/l	7.5	0.10	SW846.8270C	JAC	05-22-07	17:17
2,4-Dinitrotoluene	< 0.10	mg/l	0.13	0.10	SW846.8270C	JAC	05-22-07	17:17
Hexachlorobenzene	< 0.10	mg/l	0.13	0.10	SW846.8270C	JAC	05-22-07	17:17
Hexachlorobutadiene	< 0.10	mg/l	0.50	0.10	SW846.8270C	JAC	05-22-07	17:17
Hexachloroethane	< 0.10	mg/l	3.0	0.10	SW846.8270C	JAC	05-22-07	17:17
2-Methylphenol (o-Cresol)	< 0.10	mg/l	(200)	0.10	SW846.8270C	JAC	05-22-07	17:17
3&4-Methylphenol (m&p-Cre	< 0.10	mg/l	(o+m+p)	0.10	SW846.8270C	JAC	05-22-07	17:17
Nitrobenzene	< 0.10	mg/l	2.0	0.10	SW846.8270C	JAC	05-22-07	17:17
Pentachlorophenol	< 0.40	mg/l	100	0.40	SW846.8270C	JAC	05-22-07	17:17
Pyridine	< 0.10	mg/l	5.0	0.10	SW846.8270C	JAC	05-22-07	17:17
2,4,5-Trichlorophenol	< 0.10	mg/l	400	0.10	SW846.8270C	JAC	05-22-07	17:17
2,4,6-Trichlorophenol	< 0.10	mg/l	2.0	0.10	SW846.8270C	JAC	05-22-07	17:17

QUALITY CONTROL -- TCLP VOC SURROGATE RECOVERIES

SURROGATE	RESULTS (mg/l)	% RECOVERY	RANGE %
Dibromofluoromethane (SS)	0.048	97	76-114
Toluene-d8 (SS)	0.049	99	80-120
4-Bromofluorobenzene (SS)	0.051	101	80-120

QUALITY CONTROL -- TCLP SVOC SURROGATE RECOVERIES

SURROGATE	RESULTS (mg/l)	% RECOVERY	RANGE %
Nitrobenzene-d5	0.040	80	35-114
2-Fluorobiphenyl	0.040	80	43-116
Terphenyl-d14	0.046	92	33-141
Phenol-d5	0.096	96	21-100
2-Fluorophenol	0.082	82	10-100
2,4,6-Tribromophenol	0.076	76	10-123

Definitions: TCLP - Toxcisity Characteric Leaching Procedure su - Standard Units
REG - Regulatory Limit (User Should Confirm Limi VOC - Volatile Organic Compounds * Burn Time
MQL - Method Quantitation Limit SVOC - Semivolatile Organic Compounds
PPM - Parts Per Million
mg/l - PPM by Volume, mg/kg - PPM by Weight

John Keller

John Keller, Ph.D
Laboratory Director

EPAHO103001316

Tetra Tech Process System 2231
Prof # 2231

EPAHO103001317

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **6/19/2007**

Dear **Nelson James**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2231

Generator: Toromont Process Systems
Address: 10815 Telge Rd
Houston, TX 77095

Waste Information

Name of Waste: Non-hazardous blast grit media
TCEQ Waste Code #: CESQ3192
Container Type:
Detailed Description of Process Generating Waste:
Spent blasting grit media from bead blasting new carbon steel pipeline equipment for surface preparation to remove rust and particles.
Color: gray to black **Odor:** none **pH:** na
Physical State:
Incompatibilities: Oxidizers and flammable materials
Safety Related Data/Special Handling:
Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DB

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company:	Toromont Energy		
Address:	10815 Telge Rd		
City, State, Zip:	Houston, TX 77095		
Contact:	Harland May	**Title:**	Management
Phone No:	281-345-9300	**Fax No:**	281-345-7434
24/hr Phone:	281-345-9300		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	**SIC Code:**	

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Non-Hazardous Blast Grit Media
Detailed Description of Process Generating Waste: Spent blasting grit media from bead blasting new carbon steel pipeline equipment for surface preparation to remove rust and particles.

Physical State: ☐ **Liquid** ☐ **Sludge** ☐ **Powder** ☒ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: Gray to Black **Odor:** None

Specific Gravity (water=1): 1.5 **Density:** 10 lbs/gal

Layers: ☒ **Single-phase** ☐ **Multi-phase**

Container Type:	☒	**Drum**	☐ **Tote**	☐	**Truck**	☐	**Other (explain)**
Container Size:		55 Gal					

Frequency: ☐ **Weekly** ☒ **Monthly** ☐ **Quarterly** ☐ **Yearly**
Number of Units (containers): 1-25 **Other:**
Texas State Waste Code No: CESQ3192
Proper U.S. DOT Shipping Name: Non-RCRA, Non-DOT Regulated Blasting Grit
Class: Na **UN/NA:** Na **PG:** Na **RQ:** Na

Flash Point >200	**pH** Na	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 100%
Oil&Grease 0-1499mg/l	**TOC** Namg/l	**Zinc** Namg/l	**Copper** Namg/l	**Nickel** Namg/l

EPAHO103001319

SECTION 4: Physical and Chemical Data

[illegible]	[illegible]	[illegible]
The waste consists of the following materials	Ranges are acceptable	or %
Spent Blast Grit	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
TCLP Analysis

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers and Flammable materials

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ____
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: X [signature] **Date:** X 6/18/07

Printed Name/Title: X D.H. MAY Assist. Prod. Mgr.
PAINT SHOP Mgr.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	**Process Facility Information:**
Compliance Officer: [signature]	$69/hr Trans IS
Date: 6-19-07 Approved Rejected	$45/dm (class 2)
Approval Number: 2231	

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001321

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001322

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536
Phone: (281)-476-4534 Fax: (281)-476-4406

Toromont Energy
10815 Telge Rd
Houston, TX 77095

Phone: (281) 345-5016

Attn: **Harland May**

- CERTIFICATE OF RESULTS -

MES Lab#: 7050304

Client Sample ID: Used Blast Grit

Sample Collect Date: 5/9/2007 @ 4:15:00 PM **Sample Type:** Grab
Sample Receipt Date: 5/9/2007 @ 5:15:00 PM

Test Group / Method

TCLP Metals (11) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: HDGIL Date / Time
Antimony	0.032	1	< 0.032	mg/L	5/12/2007 / 1:30 PM
Arsenic	0.014	5	< 0.014	mg/L	5/12/2007 / 1:30 PM
Barium	0.0005	100	**2.12**	**mg/L**	5/12/2007 / 1:30 PM
Beryllium	0.0005	0.08	**0.0435**	**mg/L**	5/12/2007 / 1:30 PM
Cadmium	0.002	1	**0.006**	**mg/L**	5/12/2007 / 1:30 PM
Chromium	0.002	5	**0.036**	**mg/L**	5/12/2007 / 1:30 PM
Lead	0.005	5	**0.028**	**mg/L**	5/12/2007 / 1:30 PM
Nickel	0.003	70	**0.306**	**mg/L**	5/12/2007 / 1:30 PM
Selenium	0.024	1	**0.079**	**mg/L**	5/12/2007 / 1:30 PM
Silver	0.002	5	**0.003**	**mg/L**	5/12/2007 / 1:30 PM

TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: AM Date / Time
Mercury	0.0002	0.2	< 0.0002	mg/L	5/10/2007 / 10:45 PM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Holland D. Gilmore, Laboratory Director

Tuesday, May 15, 2007
Date

EPAHO103001323

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536
Phone: (281)-476-4534 Fax: (281)-476-4406

Toromont Energy
10815 Telge RD
Houston, TX 77095

Phone: (281) 345-5016

Attn: **Harland May**

- CERTIFICATE OF RESULTS -

MES Lab#: 7060172
Client Sample ID: Used Blast Grit

Sample Collect Date: 6/8/2007 @ 1:10:00 PM **Sample Type:** Grab
Sample Receipt Date: 6/8/2007 @ 3:35:00 PM

Test Group / Method

Total Petroleum Hydrocarbons Solid Method: TNRCC 1005	MDL	Result	Units	Analyst: TFR Date / Time
C6 - C12 Hydrocarbons	4	< 4	mg/kg	6/11/2007 / 7:15 PM
>C12 - C28 Hydrocarbons	8	46	mg/kg	6/11/2007 / 7:15 PM
>C28 - C36 Hydrocarbons	8	< 8	mg/kg	6/11/2007 / 7:15 PM
Total TPH	20	46	mg/kg	6/11/2007 / 7:15 PM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Tuesday, June 12, 2007
Holland D. Gilmore, Laboratory Director **Date**

EPAHO103001324

7060172

MERCURY ENVIRONMENTAL SERVICES
QA/QC REPORT

ANALYTES	METHOD TPH1005	MB mg/kg	CCV %REC	MS %REC	MSD %REC
C6-C12		< 4	88.0	77.0	82.0
C12-C28		< 8	98.4	88.0	85.9

Key to QA Abbreviations

MS=Matrix Spike
RPD=Relative Percent Deviation
LCS=Laboratory Control Standard
CCB=Continuing Calibration Blank
MDL=Minimum Detection Limit
MSD=Matrix Spike Duplicate
MB=Method Blank
CCV=Continuing Calibration Verification
%Rec=Percent Recovery
RL=Regulatory Limit

Signature _____
Holland D. Gilmore / Laboratory Director

June 12, 2007

MES - CHAIN OF CUSTODY

MES
Mercury Environmental Services
6913 Hwy. 225 • Deer Park, TX 77536
1-800-771-4MES
(281) 476-4534
Fax (281)-476-4406

COMPANY NAME: (BILL TO:) TORMONT ENERGY
COMPANY ADDRESS: 10815 TELGE RD
CITY HOUSTON STATE TX ZIP 77095
CONTACT PERSON'S NAME: HARVARD MAI
CONTACT PERSON'S PHONE 281-345-5016 FAX #:

YOUR PROJECT NO.:	YOUR P.O. #:	YOUR PROJECT NAME:

PROJECT ADDRESS:

YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATRIX	PARAMETERS FOR ANALYSIS: TPH	NUMBER OF CONTAINERS	PRESERVATIONS	REMARKS
USED BLAST GRIT	GRAB	6/8/07	13:10		✓			ON ICE

TURNAROUND TIME: 1 BDAYS

DETECTION LIMITS SPECIAL LIMITS REQUIRED: Yes No
Please circle one. If Yes, please describe below or include separate sheet detailing requirements.

6 PERSON TAKING SAMPLE SIGNATURE (a. - Print Name & b. - Sign.):
a. b.

RELINQUISHED BY: (Signature) — DATE 6/8/07 — TIME 13:10 — RECEIVED BY: (Signature) Allison Diamond

7 RELINQUISHED BY: (Signature) Allison Diamond — DATE 6/8/07 — TIME 15:35 — RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature) — DATE — TIME — RECEIVED BY: (Signature) 1535

METHOD OF PAYMENT

SHIPPED BY: (Signature)

COURIER (Signature)

RECEIVED FOR MES BY: (Signature) Justin Buck — DATE 6/8/07 — TIME 4:50

8 Sample Remainder Disposal
☐ Return Sample Remainder To Client Via _____
☐ I Request Lab To Dispose Of All Sample Remainders
(Signature) _____ (Date) _____

Form # MES - COR

WHITE & CANARY – Shipped with Sample PINK – Retained by Customer WHITE – Returned with Report

JUN-12-2007 01:34PM FROM-Toromont Process Systems +2813457434 T-333 P.004/004 F-161
EPAHO103001326

MES - CHAIN OF CUSTODY

MES
Mercury Environmental Services
6913 Hwy. 225 • Deer Park, TX 77536
1-800-771-4MES
(281) 476-4534
Fax (281)-476-4406

COMPANY NAME: (BILL TO:) Toromont Energy
COMPANY ADDRESS: 10815 Telge Rd
CITY Houston STATE TX ZIP 77095
CONTACT PERSON'S NAME: Harland May
CONTACT PERSON'S PHONE: 281-345-5016 FAX #:

2 YOUR PROJECT NO.. | YOUR P.O. #: | YOUR PROJECT NAME:
PROJECT ADDRESS:

YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATRIX
USED BLAST GRIT	GRAB	5/9	4:15	Solid

4 PARAMETERS FOR ANALYSIS: TCLP Lead; NUMBER OF CONTAINERS; PRESERVATIONS

5 REMARKS
TURNAROUND TIME: 3 DAYS
DETECTION LIMITS SPECIAL LIMITS REQUIRED: Yes No
Please circle one, if Yes, please describe below or include separate sheet detailing requirements.
Once

6 PERSON TAKING SAMPLE SIGNATURE (a. - Print Name & b. - Sign.): a. b.
RELINQUISHED BY: (Signature) DATE 5/9/07 TIME 1620 RECEIVED BY: (Signature) Allison Diamond

7 RELINQUISHED BY (Signature) Allison Diamond DATE 5/9/07 TIME 1615 RECEIVED BY: (Signature) Mandy Dn
RELINQUISHED BY: (Signature) DATE TIME RECEIVED BY: (Signature)

METHOD OF PAYMENT | SHIPPED BY: (Signature) | COURIER (Signature) | RECEIVED FOR MES BY: (Signature) Mandy Dn | DATE 5/9 | TIME 1715

8 Sample Remainder Disposal
☐ Return Sample Remainder To Client Via _____
☐ I Request Lab To Dispose Of All Sample Remainders
(Signature) _____ (Date) _____

Form # MES - CCRI

WHITE & CANARY – Shipped with Sample PINK – Retained by Customer WHITE – Returned with Report

JUN-05-2007 03:08PM FROM-Toromont Process Systems +2813457434 T-288 P.004/004 F-959
EPAHO103001327

CES Environmental Services, Inc.
4904 Griggs Rd.
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713 676-1676

Fax Transmittal

Total Number of Pages (Including cover sheet): 11

Date: 6/13/07

To: Harland May

281-345-7434

From: **Dan Bowman**
CES Environmental Services, Inc.
Mobile Phone: (713) 854-6150

Notes: Please review, then Sign the Page 7 of the profile. Cost will be $45/cm due to the weight of the material. Call w/ questions.

Dan

TOROMONT ENERGY SYSTEMS

FAX TRANSMITTAL

Calgary · Houston · Salt Lake · Princeton

10815 Telge Road Houston, TX 77095
Tel: 281 345 9300 Fax: 281 345 7434

DATE: 6/5/07

TO: DAN BOWMAN

FAX # 713-676-1676

COMPANY: CES ENVIRONMENTAL SERVICES, INC.

SUBJECT: CERTIFICATE OF RESULTS

FROM: HARLAND MAY

Number of pages, including cover: 4

TOROMONT ENERGY SYSTEMS

Harland May
Assistant Manufacturer Manager/Paint Shop Manager

DIRECT	281 345 5016	Toromont Energy Systems, Inc.
MAIN	281 345 9300	10815 Telge Road
FAX	281 345 7434	Houston, TX 77095 USA
CELL	281 726 9415	

hmay@toromontsystems.com www.toromontsystems.com

TOROMONT ENERGY SYSTEMS

FAX TRANSMITTAL

Calgary · Houston · Salt Lake · Princeton

10815 Telge Road Houston, TX 77095
Tel: 281 345 9300 Fax: 281 345 7434

DATE: 6/18/07

TO: DAN BOWMAN

FAX # 713-676-1676

COMPANY: CES ENVIRONMENTAL

SUBJECT: SEE ATTACHED

FROM: HARLAND MAY

Number of pages, including cover: 2

Baker Hughes PMG 2232
Part # 2232

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **6/19/2007**

Dear **Eileen Exito**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2232

Generator: Baker Hughes PMG (Oil Center Ct)
Address: 2301 Oil Center Court
Houston, TX 77073

Waste Information

Name of Waste: Diesel / Kerosene
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Mixture used to clean oilfield equipment
Color: black **Odor:** diesel/kerosene **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Baker Hughes PMG		
Address:	2301 Oil Center Court		
City, State, Zip:	Houston, TX 77073		
Contact:	Dee Bond	**Title:**	Operations Manager
Phone No:	281-230-7100	**Fax No:**	281-667-3959
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	NA		
State I.D.	NA	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	BHBSS US General NON PO		
Address:	P.O. Box 4595		
City, State, Zip:	Houston, Texas 77210		
Contact:	Eileen Exito	**Title:**	
Phone No:	281-230-7100	**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Diesel/Kerosene
Detailed Description of Process Generating Waste: Mixture used to clean oilfield equipment

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Black **Odor:** diesel/kerosene

Specific Gravity (water=1): .90 **Density:** 8 lbs/gal

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: ____ ____ ____ ____

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Combustible Liquid, n.o.s, Combustible liquid, NA1993, PG-III
Class: Combustible Liquid **UN/NA:** NA 1993 **PG:** PG-III **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>140	neutral	0mg/l	0mg/l	5%

EPAHO103001333

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
diesel	30-60	%
kerosene	30-60	%
soaps	5-10	%
dirt/sludge	2-5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
CES-analysis

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 6/14/2007

Printed Name/Title: Dee W Bond - Operations Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Thompson

Date: 6-19-07 (Approved) Rejected

Approval Number: 2232

Additional Information: $100/drum
$200 pick up fee
Recycle

EPAHO103001334

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001335

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001336

CES Environmental Services, Inc.

Sample Evaluation Form

Sample ID # 00179 **Date** 6/13/07

Please Complete This Section

Generator / Customer Name :	Baker Hughes PMC
Name or Type of Waste :	Diesel Flush - Equip Cleaning
Process Generating Waste :	Cleaning
Number of Samples :	1 **Submitted By :** Gary B.
Analysis To Be Completed :	Chlor-D-Tect / FP /
Turnaround Time :	Can this Be Put to Fuels
Other :	

(Lab Use Only)

Sample Results : SP 0.825 / FP over 140° F

Suggested Method of Treatment : Pass Chlor-D-Tect mix 50/50

Suggested Price Range : _____

Sample Results Reported to _____

Test Completed By : GG **Date :** 06/13/07 **Time:** 4:00 PM

White - CES Salesperson Copy Pink - Processing Facility Copy

Williams Brothers 2233
Prof # 2233

EPAHO103001338

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **6/19/2007**

Dear **Zac or Dave**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2233

Generator: Williams Brothers
Address: 1650 Holmes
Houston, TX 77045

Waste Information

Name of Waste: Dow Corning 888 silicone joint sealant
TCEQ Waste Code #: CESQ6091
Container Type:
Detailed Description of Process Generating Waste:
Unused / out of date remains
Color: gray **Odor:** amine like **pH:** na
Physical State:
Incompatibilities: oxidizers, see section 8 MSDS
Safety Related Data/Special Handling:
standard

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

attn: [illegible]
11 pgs

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

D.B.

SECTION 1: Generator Information

Company: Williams Brothers
Address: Kirby & Main
City, State, Zip: Houston, TX 77
Contact: Mark Anderson Title: HSE
Phone No: 832-309-4829 Fax No:
24/hr Phone: 281-541-4829
U.S. EPA I.D. No: N/A TXCESQG
State I.D. N/A CESQG SIC Code: NA

SECTION 2: Billing Information – ☐ Same as Above

Company: CKG Services
Address: 10707 Honec Egypt
City, State, Zip: Montgomery, TX 77316
Contact: Traci Fisher Title: Office mgr.
Phone No: 936-483-3662 Fax No: 936-483-3624

SECTION 3: General Description of the Waste

Name of Waste: Dow Corning 888 Silicone joint sealant
Detailed Description of Process Generating Waste: Unused/out of date remains

Physical State: ☑ Liquid ☐ Sludge ☐ Powder
☑ Solid ☐ Filter Cake ☑ Combination

Color: Gray Odor: Amine-like odor

Specific Gravity (water=1): 1.48 Density: 12 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55gal

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 10 Other:
Texas State Waste Code No: CESQ6091
Proper U.S. DOT Shipping Name: Non-Regulated
Class: — UN/NA: — PG: — RQ: —

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
N/A	N/A	— mg/l	— mg/l	100 %

Oil&Grease	TOC	Zinc	Copper	Nickel
— mg/l	— mg/l	— mg/l	— mg/l	— mg/l

EPAHO103001340

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Methylvinyl bis Silane	1-5 by wt	%
Dimethyl, methylethyl-N-hydroxyethamine Siloxane	1-5 by wt	%
inert material	90	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

See Section 8 oxidizers, Etc.

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: /
TCLP Volatiles: /
TCLP Semi-Volatiles: /
Reactivity: /
Corrosivity: /
Ignitability: /

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 6/13/07

Printed Name/Title: Zac McNaughton

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____ Additional Information: #65/dm

Date: 6-19-07 (Approved) Rejected OSL

Approval Number: 2233

EPAHO103001341

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001342

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001343

Clean Harbors + Rineco

LD

DOW CORNING

DOW CORNING CORPORATION
Material Safety Data Sheet

Attn: Dawn Boss

Version: 1.2
Revision Date: 2006/12/14

DOW CORNING(R) 888 SILICONE JOINT SEALANT

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

Dow Corning Corporation
South Saginaw Road
Midland, Michigan 48686

24 Hour Emergency Telephone: (989) 496-5900
Customer Service: (989) 496-6000
Product Disposal Information: (989) 496-6315
CHEMTREC: (800) 424-9300

MSDS No.: 01560697
Revision Date: 2006/12/14

Generic Description: Silicone Sealant
Physical Form: Paste
Color: Gray
Odor: Amine-like odor

NFPA Profile: Health 2 Flammability 1 Instability/Reactivity 0

Note: NFPA = National Fire Protection Association

2. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Acute Effects

Eye: Direct contact may cause moderate irritation.

Skin: May cause mild irritation.

Inhalation: Irritates respiratory passages very slightly.

Oral: Low ingestion hazard in normal use.

Prolonged/Repeated Exposure Effects

Skin: Repeated or prolonged exposure may irritate seriously.

Inhalation: Overexposure by inhalation may injure the following organ(s): Testes. Liver. Pancreas. Spleen.

Oral: Repeated ingestion or swallowing large amounts may injure internally.

Signs and Symptoms of Overexposure

No known applicable information.

Medical Conditions Aggravated by Exposure

No known applicable information.

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Material Safety Data Sheet

DOW CORNING(R) 888 SILICONE JOINT SEALANT

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for the detailed toxicology information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number	Wt %	Component Name
50791-87-2	1.0 - 5.0	Methylvinyl bis(n-methylacetamido) silane
68952-53-4	1.0 - 5.0	Dimethyl, methylethyl-N-hydroxyethamine siloxane

The above components are hazardous as defined in 29 CFR 1910.1200.

4. FIRST AID MEASURES

Eye:	Immediately flush with water for 15 minutes. Get medical attention.
Skin:	Remove from skin and wash thoroughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.
Inhalation:	Remove to fresh air. Get medical attention if ill effects persist.
Oral:	Get medical attention.
Notes to Physician:	Treat according to person's condition and specifics of exposure.

5. FIRE FIGHTING MEASURES

Flash Point:	Not applicable.
Autoignition Temperature:	Not determined.
Flammability Limits in Air:	Not determined.
Extinguishing Media:	On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO2), dry chemical or water spray. Water can be used to cool fire exposed containers.
Fire Fighting Measures:	Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.
Unusual Fire Hazards:	None.

6. ACCIDENTAL RELEASE MEASURES

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Containment/Clean up:	Observe all personal protection equipment recommendations described in Sections 5 and 8. Wipe up or scrape up and contain for salvage or disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Local, state and federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

Note: See section 8 for Personal Protective Equipment for Spills. Call (989) 496-5900, if additional information is required.

7. HANDLING AND STORAGE

Use with adequate ventilation. Product evolves N-methyl acetamide when exposed to water or humid air. Provide ventilation during use to control N-methyl acetamide within exposure guidelines or use respiratory protection. Avoid eye contact. Avoid skin contact. Avoid breathing vapor, mist, dust, or fumes. Keep container closed. Do not take internally.

Keep container closed and store away from water or moisture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

CAS Number	Component Name	Exposure Limits
50791-87-2	Methylvinyl bis(n-methylacetamido) silane	See N-methyl acetamide comments.

N-methyl acetamide is formed on contact with water or humid air. Provide adequate ventilation to control exposures to within Dow Corning recommended exposure guidelines of 1 ppm (TWA) and 5 ppm (Excursion Limit).

Engineering Controls

Local Ventilation:	Recommended.
General Ventilation:	Recommended.

Personal Protective Equipment for Routine Handling

Eyes:	Use proper protection - safety glasses as a minimum.
Skin:	Wash at mealtime and end of shift. If skin contact occurs, change contaminated clothing as soon as possible and thoroughly flush affected areas with cool water. Chemical protective gloves are recommended.

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Suitable Gloves:	Avoid skin contact by implementing good industrial hygiene practices and procedures. Select and use gloves and/or protective clothing to further minimize the potential for skin contact. Consult with your glove and/or personnel protective equipment manufacturer for selection of appropriate compatible materials.
Inhalation:	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. IH personnel can assist in judging the adequacy of existing engineering controls.
Suitable Respirator:	General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

Personal Protective Equipment for Spills

Eyes:	Use full face respirator.
Skin:	Wash at mealtime and end of shift. If skin contact occurs, change contaminated clothing as soon as possible and thoroughly flush affected areas with cool water. Chemical protective gloves are recommended.
Inhalation/Suitable Respirator:	Respiratory protection recommended. Follow OSHA Respirator Regulations (29 CFR 1910.134) and use NIOSH/MHSA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.
Precautionary Measures:	Avoid eye contact. Avoid skin contact. Avoid breathing vapor, mist, dust, or fumes. Keep container closed. Do not take internally. Use reasonable care.
Comments:	Product evolves N-methyl acetamide when exposed to water or humid air. Provide ventilation during use to control N-methyl acetamide within exposure guidelines or use respiratory protection.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Paste
Color:	Gray
Odor:	Amine-like odor
Specific Gravity @ 25°C:	1.48
Viscosity:	Not determined.
Freezing/Melting Point:	Not determined.
Boiling Point:	Not determined.

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DOW CORNING(R) 888 SILICONE JOINT SEALANT

Vapor Pressure @ 25°C:	Not determined.
Vapor Density:	Not determined.
Solubility in Water:	Not determined.
pH:	Not determined.
Volatile Content:	Not determined.
Flash Point:	Not applicable.
Autoignition Temperature:	Not determined.
Flammability Limits in Air:	Not determined.

Note: The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable.
Hazardous Polymerization:	Hazardous polymerization will not occur.
Conditions to Avoid:	None.
Materials to Avoid:	Oxidizing material can cause a reaction. Water, moisture, or humid air can cause hazardous vapors to form as described in Section 8.

Hazardous Decomposition Products

Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Nitrogen oxides. Silicon dioxide. Formaldehyde. Metal oxides.

11. TOXICOLOGICAL INFORMATION

Component Toxicology Information

Contains Bis(N-methyl acetamido)silane which liberates N-methylacetamide (NMA) during cure. NMA has been shown to cause birth defects in laboratory animals.

Special Hazard Information on Components

No known applicable information.

12. ECOLOGICAL INFORMATION

Environmental Fate and Distribution

DOW CORNING

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Material Safety Data Sheet

DOW CORNING(R) 888 SILICONE JOINT SEALANT

Complete information is not yet available.

Environmental Effects

Complete information is not yet available.

Fate and Effects in Waste Water Treatment Plants

Complete information is not yet available.

Ecotoxicity Classification Criteria

Hazard Parameters (LC50 or EC50)	High	Medium	Low
Acute Aquatic Toxicity (mg/L)	<=1	>1 and <=100	>100
Acute Terrestrial Toxicity	<=100	>100 and <= 2000	>2000

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993.

This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

13. DISPOSAL CONSIDERATIONS

RCRA Hazard Class (40 CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? No

State or local laws may impose additional regulatory requirements regarding disposal.Call (989) 496-6315, if additional information is required.

14. TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)

Not subject to DOT.

Ocean Shipment (IMDG)

Not subject to IMDG code.

Air Shipment (IATA)

Not subject to IATA regulations.

Call Dow Corning Transportation, (989) 496-8577, if additional information is required.

15. REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

DOW CORNING

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DOW CORNING(R) 888 SILICONE JOINT SEALANT

TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

EPA SARA Title III Chemical Listings

Section 302 Extremely Hazardous Substances (40 CFR 355):
None.

Section 304 CERCLA Hazardous Substances (40 CFR 302):

CAS Number	Wt %	Component Name
68-12-2	0.8	Dimethylformamide
1330-20-7	0.2	Xylene

Section 311/312 Hazard Class (40 CFR 370):

Acute: Yes
Chronic: Yes
Fire: No
Pressure: No
Reactive: No

Section 313 Toxic Chemicals (40 CFR 372):

CAS Number	Wt %	Component Name
68-12-2	0.8	Dimethylformamide

Note: Chemicals are listed under the 313 Toxic Chemicals section only if they meet or exceed a reporting threshold.

Supplemental State Compliance Information

California

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

None known.

Massachusetts

CAS Number	Wt %	Component Name
1317-65-3	40.0 - 70.0	Limestone

New Jersey

DOW CORNING

DOW CORNING CORPORATION
Material Safety Data Sheet

DOW CORNING(R) 888 SILICONE JOINT SEALANT

CAS Number	Wt %	Component Name
1317-65-3	40.0 - 70.0	Limestone
70131-67-8	40.0 - 70.0	Dimethyl siloxane, hydroxy-terminated
50791-87-2	1.0 - 5.0	Methylvinyl bis(n-methylacetamido) silane
68952-53-4	1.0 - 5.0	Dimethyl, methylethyl-N-hydroxyethamine siloxane

Pennsylvania

CAS Number	Wt %	Component Name
1317-65-3	40.0 - 70.0	Limestone
70131-67-8	40.0 - 70.0	Dimethyl siloxane, hydroxy-terminated

16. OTHER INFORMATION

Prepared by: Dow Corning Corporation

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

(R) indicates Registered Trademark

Texas Sterling Construction 2234
2234

EPAHO103001352

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **6/20/2007**

Dear **Pete Flores**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2234

Generator: Texas Sterling Construction (Fannin)
Address: 9460 Fannin
Houston, TX 77047

Waste Information

Name of Waste: Plant trash
TCEQ Waste Code #: CESQ3192
Container Type: roll off
Detailed Description of Process Generating Waste:
Plant trash from the closing of a work site
Color: varies **Odor:** none **pH:** na
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Texas Sterling Construction		
Address:	9460 Fannin		
City, State, Zip:	Houston, TX 77047		
Contact:	Dwayne Tamayo	Title:	
Phone No:	281-821-9091	Fax No:	281-821-2995
24/hr Phone:	281-330-7007		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	SIC Code:	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Texas Sterling Construction		
Address:	20810 Fernbush		
City, State, Zip:	Houston, TX 77073		
Contact:	Pete Flores	Title:	HSE
Phone No:	281-821-9091	Fax No:	281-821-2995

SECTION 3: General Description of the Waste

Name of Waste: Plant trash
Detailed Description of Process Generating Waste: Plant trash from the closing of a work site.

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: Varies Odor: None

Specific Gravity (water=1): 9-1.5 Density: 7-9 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☒ Other (explain)
Container Size: ____ ____ ____ Roll-off

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 1 Other: ____
Texas State Waste Code No: CESQ3192
Proper U.S. DOT Shipping Name: Non-RCRA, Non-DOT Regulated Plant Trash
Class: Na UN/NA: Na PG: Na RQ: Na

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200	Na	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
Namg/l	Namg/l	Namg/l	Namg/l	Namg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Broken Pallets	10-60	%
Trash(Paper, empty bag, soda cans, etc.)	50-90	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: A. Dwayne Tamayo **Date:** 6/20/07

Printed Name/Title: A. DWAYNE TAMAYO / PROJECT COORDINATOR

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Compliance Officer: [signature]	**Process Facility Information:** Class 2
Date: 6-20-07 Approved Rejected	Trans $69/hr-4 hr min Disposal $25/yd Liner $30 Fuel Surcharge 20% trans IS
Approval Number: 2234	

EPAHO103001355

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

2235 Trimas
DSI Transporters

Trimas - DSI Transporters
#2235

EPAHO103001357

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **6/20/2007**

Dear **Ronnie Martin**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2235

Generator: Trimac-DSI Transporters, Inc. (Deer Park)
Address: 2401 Battleground Road
Deer Park, TX 77536

Waste Information

Name of Waste: Non PCB containing transformers
TCEQ Waste Code #: Recycle
Container Type: pallet
Detailed Description of Process Generating Waste:
Used transformers from operations
Color: varies **Odor:** na **pH:** na
Physical State:
Incompatibilities:
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DC

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Trimac Transportation Services		
Address:	2401 Battleground Road		
City, State, Zip:	La Porte ,Texas 77571		
Contact:	Ronnie Martin	**Title:**	Washrack Manager
Phone No:	281-478-1000	**Fax No:**	(281) 930-8227
24/hr Phone:			
U.S. EPA I.D. No:	TXD078446820		
State I.D.	30578	**SIC Code:**	

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Non PCB Containing transformers
Detailed Description of Process Generating Waste: used transformers from operations

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: varies **Odor:** Na

Specific Gravity (water=1): NA **Density:** NA lbs/gal

Layers: ☐ Single-phase ☒ Multi-phase

Container Type:	☐ Drum	☐ Tote	☐ Truck	☒ Other (explain)
Container Size:				pallet

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 5 **Other:**
Texas State Waste Code No: Recyclable
Proper U.S. DOT Shipping Name: Non-RCRA/Non-DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
NA	NA	0mg/l	0mg/l	90-95%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

EPAHO103001359

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Metal	90-95	%
Transformer oil	0-5	%
		%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MES Analytical #7060122

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 6-18-07

Printed Name/Title: Ronnie Martin/Washrack Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 6-20-07 Approved Rejected

Approval Number: 2235

Additional Information: $4.25/lb, MUST WEIGH Transformers, pull oil out + recycle metal

2235 Trimas
DSI Transporters

Trimas - DSI Transporters
#2235

EPAHO10300136

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536
Phone: (281)-476-4534 Fax: (281)-476-4406

CES Environmental Services
4904 Griggs Rd
Houston, TX 77021

Phone: (713) 676-1460
Fax: (713) 676-1676

Attn: **Dana Carter**

- CERTIFICATE OF RESULTS -

MES Lab#: 7060122

Client Sample ID: Transformer Liquid
Extended ID: Trimac / Transformer PCB

Sample Collect Date: 6/6/2007 @ 4:35:00 PM **Sample Type:** Grab
Sample Receipt Date: 6/7/2007 @ 4:35:00 PM

Test Group / Method

PCB'S Method: SW-846 8082	MDL	**Result**	Units	Analyst: TFR Date / Time
Arochlor-1016	0.5	< 0.5	mg/kg	6/14/2007 / 11:41 AM
Arochlor-1221	0.5	< 0.5	mg/kg	6/14/2007 / 11:41 AM
Arochlor-1232	0.5	< 0.5	mg/kg	6/14/2007 / 11:41 AM
Arochlor-1242	0.5	< 0.5	mg/kg	6/14/2007 / 11:41 AM
Arochlor-1248	0.5	< 0.5	mg/kg	6/14/2007 / 11:41 AM
Arochlor-1254	0.5	< 0.5	mg/kg	6/14/2007 / 11:41 AM
Arochlor-1260	0.5	< 0.5	mg/kg	6/14/2007 / 11:41 AM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Holland D. Gilmore, Laboratory Director

Friday, June 15, 2007
Date

EPAHO103001363

7060122

MERCURY ENVIRONMENTAL SERVICES
QA/QC REPORT

ANALYTE	MB mg/kg	CCV %REC
PCB	< 0.5	88

SURROGATE SPIKE RECOVERY FOR PCBS	% REC
Tetrachloro-metaxylene	87.4

Key to QA Abbreviations

MS=Matrix Spike
MSD=Matrix Spike Duplicate
RPD=Relative Percent Deviation
MB=Method Blank
LCS=Laboratory Control Standard
CCV=Continuing Calibration Verification
CCB=Continuing Calibration Blank
%Rec=Percent Recovery

Signature: _____
Holland D. Gilmore / Laboratory Director

June 15, 2007

MES - CHAIN OF CUSTODY

1-800-771-4MES
(281) 476-4534
Mercury Environmental Services
6913 Hwy. 225 • Deer Park, TX 77536
Fax (281)-476-4406

1
COMPANY NAME: (BILL TO:) CES Environmental
COMPANY ADDRESS: 4901 Griggs Road
CITY Houston STATE TX ZIP 77021
CONTACT PERSON'S NAME: Dana Carter
CONTACT PERSON'S PHONE: 713-748-9804 FAX #: 713-676-1676

2
YOUR PROJECT NO.: Trimac | YOUR P.O. #: | YOUR PROJECT NAME: transformer PCB
PROJECT ADDRESS:

3

YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATRIX	4 PARAMETERS FOR ANALYSIS: PCB	NUMBER OF CONTAINERS	PRESERVATIONS
Transformer liquid	Grab	6/6	435p		X		

5 REMARKS
TURNAROUND TIME: Standard
DETECTION LIMITS SPECIAL LIMITS REQUIRED: Yes No
Please circle one, if Yes, please describe below or include separate sheet detailing requirements.

8°
on ice

6
PERSON TAKING SAMPLE SIGNATURE (s. - Print Name & S. - Sign.): Dana Carter / Dana Carter
RELINQUISHED BY: (Signature) Dana Carter — DATE 6/7/07 — TIME 435p — RECEIVED BY: (Signature) Janet Buck

7
RELINQUISHED BY: (Signature) — DATE — TIME — RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) — DATE — TIME — RECEIVED BY: (Signature)

METHOD OF PAYMENT | SHIPPED BY: (Signature) | COURIER (Signature) | RECEIVED FOR MES BY: (Signature) Janet Buck — DATE 6/7/07 — TIME 16:35

8
Sample Remainder Disposal
☐ Return Sample Remainder To Client Via _____
☐ I Request Lab To Dispose Of All Sample Remainders
(Signature) _____ (Date) _____

Form # MES - CCRI

WHITE & CANARY – Shipped with Sample PINK – Retained by Customer WHITE – Returned with Report

PAGE 03
MES -2814764406
06/15/2007 13:43
EPAHO103001365

2237 Grundfos CBS Inc / Paco Pumps
2237

EPAHO103001366

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **6/12/2007**

Dear **K**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2237

Generator: Grundfos CBS Inc/Paco Pumps
Address: 902 Koomey Rd.
Brookshire, TX 77029

Waste Information

Name of Waste: Part A Foam - MDI
TCEQ Waste Code #: CESQ2192
Container Type:
Detailed Description of Process Generating Waste:
Unused out of spec material.
Color: dark brown **Odor:** slightly musty **pH:** na
Physical State:
Incompatibilities: reacts with water slowly at room temp to give off carbon dioxide, reactgion is accelerated at higher temperatures
Safety Related Data/Special Handling:
standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676 JOY
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Grundfos CBS Inc/Paco Pumps		
Address:	902 Koomey Rd.		
City, State, Zip:	Brookshire, Tx. 77029		
Contact:	Ron Marshall	**Title:**	
Phone No:	281-994-2700	**Fax No:**	
24/hr Phone:			
U.S. EPA I.D. No:	TXCESQG		
State I.D.	N/A CES86	**SIC Code:**	N/A

SECTION 2: Billing Information – ☐ Same as Above

Company:	Select Environmental		
Address:	223 McCarty Dr		
City, State, Zip:	Houston, TX 77029		
Contact:	Kevin White	**Title:**	Sales Representative
Phone No:	281-960-3967	**Fax No:**	713-672-9425

SECTION 3: General Description of the Waste

Name of Waste: Part A Foam-MDI
Detailed Description of Process Generating Waste: Unsed out of spec material.

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: dark brown **Odor:** Slightly musty

Specific Gravity (water=1): 1.24 **Density:** 9-10 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☒ Tote ☐ Truck ☐ Other (explain)
Container Size: ____ 250 gal ____ ____

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: CESQG-2192
Proper U.S. DOT Shipping Name: Non-RCRA/Non DOT regulated waste
Class: 2 **UN/NA:** ____ **PG:** ____ **RQ:** ____

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
425 deg F	NA	N/Amg/l	N/Amg/l	N/A%

Oil&Grease	TOC	Zinc	Copper	Nickel
N/Amg/l	N/Amg/l	N/Amg/l	N/Amg/l	<37.5 mg/l

EPAHO103001368

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Polymeric MDI	~~90-100~~ 100	%
4,4'-Diphenylmethans Diisocyanate (4,4' MDI)	0.005-0.010	ppm

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE.

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS attached

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Reacts with water slowly at room temperature to give off carbon dioxide, reaction is accelerated at higher temperatures.

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: TCLP Metals are below regulatory limits
TCLP Volatiles: TCLP Volatiles are below regulatory limits
TCLP Semi-Volatiles: TCLP Semi-Volatiles are below regulatory limits
Reactivity: No reactive materials are present in the process
Corrosivity: pH is neutral befor shipment
Ignitability: No ignitable materials are present

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 6/11/07

Printed Name/Title: Kevin White, Sales Representative

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robbin Lampe

Date: 6-12-07 (Approved) Rejected

Approval Number: 2231

Process Facility Information: OL
Stabilization required. Do not mix with water, amines, alcohols, bases or acids before stabilization has been performed.
Pricing:
$500 disposal / tote + $70 / hr. trans + 18% FSC

EPAHO103001369

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☒ YES ☑ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☒ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☒ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001371

Resin Technology Company

A Division of the Henry Company

Material Safety Data Sheet

EMERGENCY CONTACTS:
Spills, Leaks, Fire or Exposure Call Chemtrec: (800) 424-9300
Medical Emergency Information: (800) 561-3636

SECTION 1: CHEMICAL PRODUCT AND COMPANY INDENTIFICATION

PRODUCT TRADE NAME(s):
RD-243-A, RD-289-A, RD-391-A, RD-422-A, RT-423-A, HIGHCAST-A, RT-1004-A, RT-2010-A, RT-2011-A, RT-2020-A, RT-2030-A, RT-2031-A, RT-2040-A, RT-2041-A, RT-2050-A, RT-5000-A, RT-5001-A, RT-5010-A, RT-5011-A, RT-5040-A, RT-5041-A, RT-5050-A, RT-5070-A, RT-5071-A, RT-5080-A, RT-5090-A, RT-3041-3.0-A, RT-3041-2.5-A, RT-4041-A, Component "A"

Product Use: Component of a polyurethane

Company:
Henry Company/RTC Division
2270 Castle Harbor Place, Ontario, CA 91761
Phone: (800) 235-1142 FAX: (909) 923-9617

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT(S)	% (w/w)	ACGIH TLV	CAS NO.
Polymeric Diphenylmethane Diisocyanate (*polymeric MDI*)	100	Not Listed	9016-87-9
CONTAINS: 4 , 4 '- Diphenylmethane Diisocyanate (4,4' MDI) (approx. 45%)	-	0.005 ppm	101-68-8
MDI isomers/oligomers	-	Not Listed	9016-87-9

SECTION 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Health Hazards: Irritating to eyes, respiratory system and skin. Inhalation at levels above the occupational exposure limit could cause respiratory sensitization. Risk of serious damage to respiratory system. The onset of the respiratory symptoms may be delayed for several hours after exposure. A hyper-reactive response to even minimal concentrations of MDI may develop in sensitized persons. Sensitized persons should not be exposed to any mixture containing unreacted MDI.

Physical Hazards: Reacts slowly with water to produce carbon dioxide which may rupture closed

containers. This reaction accelerates at higher temperatures.

Appearance: Dark brown liquid.

Odor: Slightly musty.

Read the entire MSDS for a more thorough evaluation of the hazards.

SECTION 4- FIRST AID MEASURES

General: In case of accident or if you feel unwell, seek medical advice IMMEDIATELY (show the label where possible).

Inhalation: Remove patient from exposure, keep warm and at rest. Obtain medical attention. Treatment is symptomatic for primary irritation or difficulty in breathing. If breathing is labored, oxygen should be administered by qualified personnel. Apply artificial respiration if breathing has ceased or shows signs of failing.

Skin Contact: Remove contaminated clothing. Wash affected areas thoroughly with soap and water. If irritation, redness, or a burning sensation develops and persists, obtain medical advice. Contaminated clothing should be thoroughly cleaned before reuse.

Eye Contact: Immediately flush eyes with running water for a minimum of 15 minutes. Hold eyelids open during flushing. If irritation persists, repeat flushing. Obtain medical attention IMMEDIATELY.

Ingestion: Do NOT induce vomiting. Provided the patient is conscious, wash out mouth with water then give 1 or 2 glasses of water to drink. Refer person to medical personnel for immediate attention.

Notes To Physicians: Symptomatic and supportive therapy as needed. Following severe exposure medical follow-up should be monitored for at least 48 hours.

SECTION 5 - FIRE FIGHTING MEASURES

Fire and Explosion Hazards:	Containers may burst under intense heat. Due to reaction with water, a hazardous build-up of pressure could result if contaminated containers are re-sealed.
Extinguishing Media:	Carbon dioxide, dry chemical, or appropriate foam. If water is used, very large quantities are required. Reaction between water and hot isocyanate may be vigorous. Contain run-off water with temporary barriers.
Fire Fighting Procedures:	As appropriate for surrounding materials/equipment.
Fire Fighting Protective Equipment:	Use self-contained breathing apparatus and full protective clothing (Bunker gear).
Flash Point:	425° F (218°C)
Flammable Limits (Lower):	Not available.
Flammable Limits (Upper):	Not available.
Auto Ignition Temperature:	240°C (464°F) (4,4'-Diphenylmethane Diisocyanate)
Decomposition Temperature:	Not available.
Rate of Burning:	Not available.

Explosive Power:	None.
Sensitivity to Mechanical Impact:	None.
Combustion Products:	Carbon monoxide, Carbon Dioxide, nitrogen oxides and some HCN.

SECTION 6 - ACCIDENTAL RELEASE MEASURES
For major spills call Chemtrec (800-424-9300).

Spills, Leaks, or Releases: Clean-up should only be performed by trained personnel. People dealing with major spillages should wear full protective clothing including full air supplied respirator. Evacuate the area. Prevent further leakage, spillage or entry into drains.

Contain and absorb large spillages onto an inert, non-flammable adsorbent carrier (such as earth or sand). Shovel into open-top drums or plastic bags for further decontamination, if necessary. Wash the spillage area clean with liquid decontaminant. Test atmosphere for MDI. Neutralize small spillages with decontaminant. Remove and dispose of residues. Notify applicable government authorities if release is reportable. The CERCLA RQ for MDI is 5,000 lbs. (**see CERCLA in Section 15**)

Preparation of Decontamination Solution: Prepare a decontamination solution of 0.2-0.5% liquid detergent and 3-8% concentrated ammonium hydroxide in water (5-10% sodium carbonate may be substituted for the ammonium hydroxide). Follow the precautions on the supplier's material safety data sheets when preparing and using solution.

Use of Decontamination Solution: Allow deactivated material to stand for at least 30 minutes before shoveling into drums. Do not tighten the bungs. Mixing with wet earth is also effective, but slower.

SECTION 7 - HANDLING AND STORAGE
Handling: Avoid personal contact with the product or reaction mixture. Use only with adequate ventilation to ensure that the occupational exposure limit is not exceeded. The efficiency of the ventilation system must be monitored regularly because of the possibility of blockage. Avoid breathing aerosols, mists and vapors. When the product is sprayed or heated, an approved MSHA/NIOSH positive-pressure, supplied-air respirator may be required.

Storage Requirements: Keep containers properly sealed and when stored indoors, in a well ventilated area. Keep contents away from moisture. Due to reaction with water, producing CO_2-gas, a hazardous build-up of pressure could result if contaminated containers are re-sealed. Do not reseal contaminated containers!! Uncontaminated containers, free of moisture, may be resealed only after placing under a nitrogen blanket. Do not store in containers made of copper, copper alloys or galvanized surfaces.

Storage Temperature: Ideal storage temperature is 16-38°C (60-100°F).

Keep stocks of decontaminant (See Section 6) readily available.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION
PREVENTIVE MEASURES: Conditions of use, adequacy of engineering or other control measures,

Resin Technology Company

A Division of the Henry Company

Material Safety Data Sheet

EMERGENCY CONTACTS:
Spills, Leaks, Fire or Exposure Call Chemtrec: (800) 424-9300
Medical Emergency Information: (800) 561-3636

SECTION 1: CHEMICAL PRODUCT AND COMPANY INDENTIFICATION

PRODUCT TRADE NAME(s):
RD-243-A, RD-289-A, RD-391-A, RD-422-A, RT-423-A, HIGHCAST-A, RT-1004-A, RT-2010-A, RT-2011-A, RT-2020-A, RT-2030-A, RT-2031-A, RT-2040-A, RT-2041-A, RT-2050-A, RT-5000-A, RT-5001-A, RT-5010-A, RT-5011-A, RT-5040-A, RT-5041-A, RT-5050-A, RT-5070-A, RT-5071-A, RT-5080-A, RT-5090-A, RT-3041-3.0-A, RT-3041-2.5-A, RT-4041-A, Component "A"

Product Use: Component of a polyurethane

Company:
Henry Company/RTC Division
2270 Castle Harbor Place, Ontario, CA 91761
Phone: (800) 235-1142 FAX: (909) 923-9617

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT(S)	% (w/w)	ACGIH TLV	CAS NO.
Polymeric Diphenylmethane Diisocyanate (*polymeric MDI*)	100	Not Listed	9016-87-9
CONTAINS: 4 , 4 '- Diphenylmethane Diisocyanate (4,4' MDI) (approx. 45%)	-	0.005 ppm	101-68-8
MDI isomers/oligomers	-	Not Listed	9016-87-9

SECTION 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Health Hazards: Irritating to eyes, respiratory system and skin. Inhalation at levels above the occupational exposure limit could cause respiratory sensitization. Risk of serious damage to respiratory system. The onset of the respiratory symptoms may be delayed for several hours after exposure. A hyper-reactive response to even minimal concentrations of MDI may develop in sensitized persons. Sensitized persons should not be exposed to any mixture containing unreacted MDI.

Physical Hazards: Reacts slowly with water to produce carbon dioxide which may rupture closed

Vapor Pressure (mm Hg at 20°C):	Approx. 4×10^{-6}
Vapor Density (Air = 1):	8.5 approx.
Boiling Point:	Not applicable.
Melting Point:	Not available.
Solubility (Water):	(Reacts with water)
Solubility (Other):	Soluble in most organic solvents.
Specific Gravity:	1.24 approx. (at 25°C)
Evaporation Rate:	Not available.

SECTION 10 - STABILITY AND REACTIVITY

Hazardous Decomposition Products:
Highly unlikely under normal industrial use. **See Section 5.**

Chemical Stability: Stable at room temperature.

Conditions to Avoid: Avoid high temperatures. Avoid freezing.

Incompatibility with other Substances: This product will react with any materials containing active hydrogens such as water, alcohol, amines, bases and acids. The reaction with water is very slow under 50 °C (122 °F) but is accelerated at higher temperatures.

Hazardous Polymerization: Polymerization may occur at elevated temperatures in the presence of alkalies, tertiary amines and metal compounds.

SECTION 11- TOXICOLOGICAL INFORMATION

Polymeric MDI:

- Oral LD50 (rat) > 5,000 mg/kg
- Dermal LD50 (rabbit)>5,000 mg/kg
- Inhalation LC50 (rat) = 490 mg/m^3/4 hours (respirable aerosol)

POTENTIAL HEALTH EFFECTS:

Inhalation: This product is a respiratory irritant and potential respiratory sensitizer. Inhalation of vapor or aerosol at levels above the occupational exposure limit could cause respiratory sensitization and lung injury. Symptoms may include irritation to the eyes, nose, throat and lungs, possibly combined with dryness of the throat, tightness of chest and difficulty in breathing. The onset of the respiratory symptoms may be delayed for several hours after exposure. A hyper-reactive response to even minimal concentrations of MDI may develop in sensitized persons. In a single evaluation of 5 men occupationally exposed to MDI and hydrocarbon solvent vapors under conditions where adequate ventilation or other safety precautions were not used, nueropsychologic findings were attributed to MDI.

Skin Contact: Moderate irritant. Repeated and/or prolonged contact may cause skin sensitization. There is limited evidence from animal studies that skin contact may play a role in respiratory sensitization. These results emphasize the need for protective clothing including gloves to be worn at all times when handling these chemicals or in maintenance work.

Eye Contact: The aerosol, vapor or liquid will irritate human eyes following contact.

Ingestion: Ingestion may cause irritation of the gastrointestinal tract. Based on the acute oral LD50, this product is considered practically non-toxic by ingestion.

Chronic Effects:A study was conducted where groups of rats were exposed for 6 hours/day, 5 days/week for a lifetime to atmospheres of respirable polymeric MDI aerosol either at concentrations of 0, 0.2, 1 or 6 mg/m^3. No adverse effects were obvserved at 0.2 mg/m^3 concentrations. At the 1 mg/m^3 concentration minimal nasal and lung irritant effects were seen. Only at the top concentration (6.0 mg/m^3) there was an increased incidence of a benign tumor of the lung (adenoma) and one malignant tumor (adenocarcinoma). Overall, the tumor incidence, both benign and malignant, and the number of animals with tumors were not different. The increased incidence of lung tumors is associated with prolonged respiratory irritation and the concurrent accumulation of yellow material in the lung. In the absence of prolonged exposure to high concentrations leading to chronic irritation and lung damage, it is highly unlikely that tumor formation will occur.

There are reports that excessive chronic exposure to diisocyanates may result in permanent decrease in lung function.

Carcinogenicity: The ingredients of this product are not classified as carcinogenic by ACGIH or IARC, not regulated as carcinogens by OSHA, and not listed as carcinogens by NTP.

Mutagenicity: There is no substantial evidence of mutagenic potential.

Reproductive Effects: No adverse reproductive effects are anticipated.

Teratogenicity and Fetotoxicity: No birth defects were seen in two independent animal (rat) studies. Fetotoxicity was observed at doses that were extremely toxic (including lethal) to the mother. Fetotoxicity was not observed at doses that were not maternally toxic. The doses used in these studies were maximal, respirable concentrations well in excess of the defined occupational limits.

SECTION 12 - ECOLOGICAL INFORMATION

Environmental Fate and Distribution: it is unlikely that significant environmental exposure in the air or water will arise, based on consideration of the production and use of the substance.

Persistence and Degradation: Immiscible with water, but will react with water to produce inert and non-biodegradable solids.

Toxicity: Polymeric MDI.

- LC50 (Zebra Fish) >1000 mg/l(At the highest level tested of 1000 mg/l there were no deaths).
- EC50 (Daphnia magna) (24 hour) >1000 mg/l
- EC50 (E. Coli) >100 mg/l

SECTION 13 - DISPOSAL CONSIDERATIONS

The generation of waste should be avoided or minimized wherever possible.

Disposal should be in accordance with local, state, provincial or national regulations. This material is not a hazardous waste under RCRA 40 CFR 261. Small quantities should be treated with a decontaminant solution (**See Section 6**). The treated waste is not a hazardous material under RCRA 40 CFR 261. Chemical waste, even small quantities, should never be poured down drains, sewers or waterways.

Resin Technology Company

A Division of the Henry Company

Material Safety Data Sheet

EMERGENCY CONTACTS:
Spills, Leaks, Fire or Exposure Call Chemtrec: (800) 424-9300
Medical Emergency Information: (800) 561-3636

SECTION 1: CHEMICAL PRODUCT AND COMPANY INDENTIFICATION

PRODUCT TRADE NAME(s):
RD-243-A, RD-289-A, RD-391-A, RD-422-A, RT-423-A, HIGHCAST-A, RT-1004-A, RT-2010-A, RT-2011-A, RT-2020-A, RT-2030-A, RT-2031-A, RT-2040-A, RT-2041-A, RT-2050-A, RT-5000-A, RT-5001-A, RT-5010-A, RT-5011-A, RT-5040-A, RT-5041-A, RT-5050-A, RT-5070-A, RT-5071-A, RT-5080-A, RT-5090-A, RT-3041-3.0-A, RT-3041-2.5-A, RT-4041-A, Component "A"

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Henry Company/RTC Division
2270 Castle Harbor Place, Ontario, CA 91761
Phone: (800) 235-1142 FAX: (909) 923-9617

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Physical Hazards: Reacts slowly with water to produce carbon dioxide which may rupture closed

FOR YOUR PROTECTION: The information and recommendations in this publication are, to the best of our knowledge, reliable. The toxicity and risk characteristics of products made by Resin Technology Company will necessarily differ from the toxicity and risk characteristics that occur when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors. Resin Technology Company MAKES NO WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Prepared By: "Polyurethanes Applied Toxicology/Regulatory Services" (609) 423-8484

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Polyurea Product Guide | Primers Product Guide
Polyurethane Foams Product Guide for OEM Applications
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Milstead 2238

EPAHO10300138I

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/23/2008**

Dear **James Wilson**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2238

Expiration Date 8/24/2009

Generator: Milstead Environmental
Address: 29707 W. Hawthorne
Spring, TX 77386

Waste Information

Name of Waste: Water contaminated w/ultramarine blue (dye)
TCEQ Waste Code #: SPIL2192
Container Type:
Detailed Description of Process Generating Waste:
Spill cleanup
Color: blue **Odor:** odorless **pH:** 7-9
Physical State:
Incompatibilities: n/a
Safety Related Data/Special Handling:
standard

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.
4904 Griggs Road, Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit Number: 30948
U.S. EPA ID Number: TXD008950461 ISWR Number: 30900

SECTION 1: Generator Information

Company: Milstead Environmental Services @ various manifested locations for emergency response
Address: 29707 W. Hawthorne
City: Spring **State:** TX **Zip:** 77386
Contact: Sandy Tennery **Title:**
Phone Number: 281-367-3535 **Fax Number:**
24/hr Phone Number:
US EPA ID No: na
State ID No: na **SIC Code:** na

SECTION 2: Billing Information - ☑ **Same as Above**

Company:
Address:
City: **State:** **Zip:**
Contact: **Title:**
Phone Number: **Fax Number:**

SECTION 3: General Description of the Waste

Name of Waste: water contaminated w/ultramarine blue (dye)
Detailed Description of Process Generating Waste: spent water used to test pipes for leaks

Physical State: ☑ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: light purple **Odor:** none

Specific Gravity (water=1): 1 **Density:** 8.34 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☑ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☑ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☑ No

Answer "Yes" if your waste contains benzene **AND** if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☑ **Single-phase** ☐ **Multi-phase**

Container Type: ☐ **Drum** ☐ **Tote** ☑ **Truck** ☐ **Other (explain)**

Frequency: ☐ **Weekly** ☑ **Monthly** ☐ **Yearly** ☐ **One-Time**
Quantity: 1000-5000gal

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ☐ Yes ☑ No
If "Yes", then please fill out the UHC Form

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009 ☐ D010 ☐ D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☑ No
If "Yes", then please list ALL applicable codes: _____

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☑ No
If "Yes", then please list ALL applicable codes: _____

Texas State Waste Code Number: SPIL2192

Proper US DOT Shipping Name: Non-RCRA, Non-DOT regulated (ultramarine blue contaminated water)
Class: na **UN/NA:** na **PG :** na **RQ:** na

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
na	neutral	0 mg/l	0 mg/l	0 %
Oil & Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
0 mg/l	0 mg/l	0 mg/l	0 mg/l	0 mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
water	90-95	%
ultramarine blue	5-10	%

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
WATER	90	%
~~MSDS~~ Ultra marine (Blue dye)	10	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
STANDARD

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
N/A

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	X
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 8/22/07

Printed Name/Title: SANDY TENNERY, AGENT

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____ Additional Information: .40/gal

Date: 8-24-07 Approved Rejected Newport - Forward

Approval Number: 2238 TL

Aug 22 07 12:19p Milstead Environmental 2814194492 p.3

EPAHO103001385

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. MSDS

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

na

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge:

TCLP Metals:	x
TCLP Volatiles:	x
TCLP Semi-Volatiles:	x
Reactivity:	x
Corrosivity:	x
Ignitability:	x

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The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of compostion properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 5/20/2008

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: _____ ☐ Approved ☐ Rejected

Approval Number: _____

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory : Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory : Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory : Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

May 20, 2008

From: Milstead Environmental
29707 W. Hawthorne
Spring, TX 77386

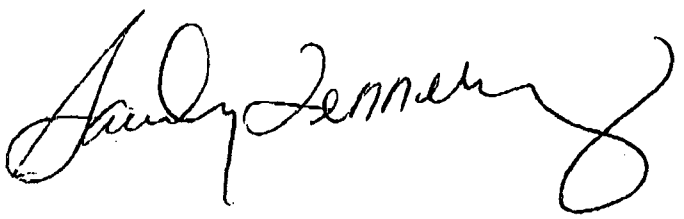
To: CES Environmental
4904 Griggs Rd.
Houston, TX 77021

Please add the following information to profile #2238.

1) Generator : Klad Manufacturing Company
403 S Loop W
Houston, TX

Regards-

Sandy Tennery
Milstead Environmental Services



1-7-0266
RK Phillips Assoc

nubiola
inorganic pigments

MATERIAL SAFETY DATA SHEET

Supersedes: February, 15, 2004
Date of Issue: March, 15, 2004

MSDS Nº: DC0101

ULTRAMARINE BLUE

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Identification:

Name: **NUBIOLA INC.**
Address: 6369 Peachtree Street
Norcross, GA 30071
Tel. Number: 770-338-4990

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT:

In the continental U.S., call: **770-338-4990**
For additional non-emergency information, call: **770-277-8819**

Product Name: **ULTRAMARINE BLUE**

Synonyms: No information available
Chemical formula: Not available

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Percent	CAS Number	RTECS Number
Sodium Aluminium Sulphosilicate	100	57455-37-5	---

SECTION 3 – HAZARDS IDENTIFICATION

CAUTION: May be harmful if swallowed or inhaled

Replaces version dated: September 15, 2003

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SECTION 3 – HAZARDS IDENTIFICATION (CONTINUED)

Potential Health Effects

1. **Skin:** May cause skin irritation. May cause an allergic reaction in certain individuals.
2. **Eyes:** May cause eyes irritation.
3. **Inhalation:** May be harmful if inhaled.
4. **Ingestion:** May cause gastrointestinal tract irritation with nausea, vomiting and diarrhoea.
5. **Chronic information:** Prolonged or repeated exposure may cause severe irritation and dermatitis. Repeated inhalation may cause chronic bronchitis.

SECTION 4 – FIRST AID MEASURES

SEEK IMMEDIATE MEDICAL ATTENTION FOR ALL CASES OF OVEREXPOSURE

Skin: Immediately wash skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and thoroughly clean before reuse. Seek medical attention.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Seek medical attention.

Inhalation: Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by a physician.

Note to Physician: Treat symptomatically and supportively.

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EPAHO103001391

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MATERIAL SAFETY DATA SHEET

Supersedes: February, 15, 2004
Date of Issue: March, 15, 2004

MSDS Nº: DC0101

ULTRAMARINE BLUE

SECTION 5 – FIRE FIGHTING MEASURES

	Ultramarine Blue
Flammability Properties:	***Non combustible. Not considered to be a fire hazard.***
Flash Point / Method:	No information available.
Flammability Limits (in air % by volume)	No information available.
LEL:	No information available.
UEL:	No information available.
Auto ignition Temperature:	No information available.
Hazardous Combustion Products:	Sulphur dioxide gas may be released
Extinguishing Media:	Water, dry chemical foam, or alcohol-resistant foam.
Firefighting instructions:	As in any fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

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EPAHO103001392

SECTION 6 – ACCIDENTAL RELEASE MEASURES

General Information: Wear appropriate personal protective equipment as specified in Section 8.

Spills / Leaks: Take up and containerize any spills for reclamation or disposal. US CERCLA Regulations require reporting spills and releases to soil, water, and air in excess of reportable quantities.

SECTION 7 – HANDLING AND STORAGE PROCEDURES

Handling: Avoid breathing dust. Avoid contact with skin or eyes. Wash thoroughly after handling. Keep container tightly closed. Wear appropriate personal protective equipment as specified in Section 8.

Storage: Store in a tightly closed container in a cool, dry location away from incompatible substances.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Respiratory Protection: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements for European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Skin Protection: Wear appropriate protective clothing and gloves to prevent skin exposure.

Eye Protection: Wear appropriate protective eyeglasses or chemical safety goggles to prevent eye exposure.

To be continued

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EPAHO103001393

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MATERIAL SAFETY DATA SHEET

Supersedes: February, 15, 2004
Date of Issue: March, 15, 2004

MSDS Nº: DC0101

ULTRAMARINE BLUE

Exposure Limits: Ultramarine Blue		
ACGIH	**NIOSH**	**OSHA Final PELs**
Ceiling Value < 10 mg/m^3 (8 hours) TWA < 5 mg/m^3 (8 hours)		

SECTION 9 – PHYSICAL / CHEMICAL PROPERTIES

Physical state	Solid
Appearance	Blue
Odor	Odorless
Ph	7-9 @ 100 g/l solution
S Loss	400 ºC
Melting Point	> 1000 ° C
Vapor Pressure (mm Hg)	Not applicable
Vapor Density (Air=1)	Not applicable
Solubility in Water	Insoluble
Specific Gravity/Density	2.35 (water = 1)

Replaces version dated: September 15, 2003

Aug 22 07 12:22p Milstead Environmental 2814194492 p.10

EPAHO103001394

nubiola
inorganic pigments

MATERIAL SAFETY DATA SHEET

Supersedes: February, 15, 2004 MSDS Nº: DC0101
Date of Issue: March, 15, 2004

ULTRAMARINE BLUE

SECTION 10 – STABILITY AND REACTIVITY DATA

Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Above 400ºC sulphur dioxide gas is released.

Incompatibility: Hydrogen sulphide may be released in contact with acids.

Hazardous Decomposition Products: Sulphur dioxide, hydrogen sulphide

Hazardous Polymerization: None

SECTION 11 – TOXICOLOGICAL INFORMATION

LD_{50} **(oral)** > 10 g/kg (rats)
Chronic / Carcinogenicity: no human carcinogen
Teratology: no teratogenic
Reproduction: no toxic for reproduction
Mutagenicity: no mutagenic
Other Studies: no information available

SECTION 12 – ECOLOGICAL INFORMATION

Environmental Fate: This material is not expected to biodegrade when released into the soil. This material is not expected to significantly bioaccumulate.

LC_{50} (fish) >32000 mg/kg

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of containers and contents in accordance with all local, state, and Federal requirements.

Replaces version dated: September 15, 2003

Aug 22 07 12:22p Milstead Environmental 2814194492 p.11

EPAHO103001395

SECTION 14 – TRANSPORTATION INFORMATION

D.O.T

Proper Shipping Name: Not applicable.
Hazard Class/I.D. No./Packing Group: Not applicable.
Label: Not applicable.
Additional Information: Not applicable.

I.M.O./I.M.D.G.

Proper Shipping Name: Not applicable.
Hazard Class/I.D. No./Packing Group: Not applicable.
Label: Not applicable.
Additional Information: Not applicable.

I.C.A.O./I.A.TA.

Proper Shipping Name: Not applicable.
Hazard Class/I. D. No. /Packing Group: Not applicable.
Label: Not applicable.
Additional Information: Not applicable.

Aug 22 07 12:22p Milstead Environmental 2814194492 p.12

EPAHO103001396

SECTION 15 – REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA Section 8 (b): CAS # 57455-37-5 is listed on TSCA inventory.

SARA title III Section 302 Extremely Hazardous Substances (EHS): Since Ultramarine Blues are not EHS and no Threshold Planning Quantity is established, its presence in quantities at or above TPQ does not require any Emergency Planning Notification under 40 CFR Part 355.

SARA title III Section 304 CERCLA Hazardous Substances: Releases in quantities equal to or above their Reportable Quantity are not subject to any Emergency Notification, as no reportable quantity is established under 40 CFR Part 302.

SARA title III Sections 311 / 312: No reporting (Tier I or Tier II) shall be submitted by the facility under 40 CFR Part 370.

Physical Hazards

Fire: None
Sudden Release of Pressure: None
Reactivity: None

Health Hazards

Immediate (Acute): None
Delayed (Chronic): None

SARA title III Section 313 Toxic Chemicals: No reporting for routine annual toxic chemicals release shall be submitted under 40 CFR Part 372.

To be continued

Aug 22 07 12:23p Milstead Environmental 2814194492 p.13

EPAHO103001397

FDA

Ultramarine Blue is cleared in 21 CFR:

- Part 73 under § 73.50 (Color Additives Approved for Use in Human Food)(Salt intended for animal feed)
- Part 73 under § 73.2725 (Color Additives Approved for Use in Cosmetics)(Externally applied cosmetics including eye area use)
- Part 178 under §178.3297 (Colorants for Polymers)
- Part 177 under § 177.2600 (Colorants in Rubber Articles intended for repeated Use)

State Regulations

Ultramarine Blues do not appear on the following state Right to Know lists:

California Proposition 65
New Jersey RTK Hazardous Substance List
Pennsylvania Hazardous Substances List
Florida Toxic Substance List
Massachusetts Hazardous Substance List
Michigan Critical Materials Register
Minnesota Hazardous Substance List

Others

Canadian Environmental Protection Act Domestic Substances List **(DSL)**
Australian Inventory of Chemical Substances **(AICS)**
Japan Hygienic Olefin and Styrene Plastic Association **(JHOSPA)**
CONEG- Developed Model Toxics in Packaging Legislation

European Directives

Directive 94/62/EEC: EU Directive on Packaging and Packaging Waste; comparable to US CONEG Legislation
Resolution AP 89 (I): use of colorants in plastic materials and articles that may come into contact with foodstuffs.
Directive 2001/59/EC (last amendment of Dir. 67/548/EEC): Ultramarine Blues are not listed in Annex I (Dangerous Substances)

Aug 22 07 12:23p Milstead Environmental 2814194492 p.14

EPAHO103001398

nubiola
inorganic pigments

MATERIAL SAFETY DATA SHEET

Supersedes: February, 15, 2004 MSDS Nº: DC0101
Date of Issue: March, 15, 2004

ULTRAMARINE BLUE

SECTION 16 – OTHER INFORMATION

Not all the grades of Ultramarine Blues are recommended for cosmetic or food contact applications. Users are asked to contact our technical service for further information.

To the best of our knowledge, the information contained herein is accurate. However, neither Nubiola, Inc. nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The possibility exists that the EU will not recognize this MSDS due to the fact that several components of the MSDS are reflective of ANSI Z-400.1-1998. Although ILO (International Labor Organization) has adopted ANSI Z-400.1-1998, ultimate disposition lies with the competent authority.

Replaces version dated: September 15, 2003

Aug 22 07 12:24p Millstead Environmental 2814194492 p.15

EPAHO103001399

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **8/24/2007**

Dear **James Wilson**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2238

Generator: Phillips Associates
Address: 5306 Hwy 146
Seabrook, TX

Waste Information

Name of Waste: Water contaminated w/ultramarine blue (dye)
TCEQ Waste Code #: SPIL2192
Container Type:
Detailed Description of Process Generating Waste:
Spill cleanup
Color: blue **Odor:** odorless **pH:** 7-9
Physical State:
Incompatibilities: n/a
Safety Related Data/Special Handling:
standard

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

1-7-0264

DB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: ~~POLY ONE C/O RK~~ PHILLIPS ASSOCIATES
Address: 5306 Hwy 146 So
City, State, Zip: Seabrook Texas
Contact: Mark Phillips Title: Owner
Phone No: 281-723-5518 Fax No: N/A
24/hr Phone: same
U.S. EPA I.D. No: TXCESQG
State I.D. CESQG SIC Code: N/A

SECTION 2: Billing Information – ☐ Same as Above

Company: MILSTEAD ENVIRONMENTAL
Address: 29707 W HAWTHORNE DR
City, State, Zip: SPRING, TEXAS 77386
Contact: SANDY TENNERY Title: AGENT
Phone No: 2813673535 X 149 Fax No: 2814194492

SECTION 3: General Description of the Waste

Name of Waste: WATER CONTAMINATED W/UTRAMARINE BLUE (DYE)
Detailed Description of Process Generating Waste: SPILL CLEANUP.

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: BLUE Odor: ODORLESS

Specific Gravity (water=1): N/A Density: N/A lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)
Container Size: ____ ____ 700G ____

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 1 Other: SPILL
Texas State Waste Code No: SPIL 3192
Proper U.S. DOT Shipping Name: NON DOT REGULATED MATERIAL (WATER CONTAMINATED W/ULTRAMARINE BLUE)
Class: N/A UN/NA: N/A PG: N/A RQ: N/A

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
NA	7-9	0 mg/l	0 mg/l	<5%

Oil&Grease	TOC	Zinc	Copper	Nickel
<1500 mg/l	NA mg/l	NA mg/l	NA mg/l	NA mg/l

Aug 24 07 12:11p Milstead Environmental 2814194492 p.2

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
WATER	90	%
~~MSDS~~ Ultra marine (Blue dye)	10	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
STANDARD

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
N/A

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 8/22/07

Printed Name/Title: SANDY TENNERY, AGENT

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 8-24-07 Approved Rejected

Approval Number: 2238

Additional Information: .40/gal

Newark - Forward

TL

Aug 22 07 12:19p Milstead Environmental 2814194492 p.3

EPAHO103001402

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☒ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☒ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

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EPAHO103001403

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☒ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

Aug 22 07 12:20p Milstead Environmental 2814194492 p.5

EPAHO103001404

1-7-0266
RK Phillips Assoc

nubiola
inorganic pigments

MATERIAL SAFETY DATA SHEET

Supersedes: February, 15, 2004
Date of Issue: March, 15, 2004

MSDS Nº: DC0101

ULTRAMARINE BLUE

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Identification:

Name: **NUBIOLA INC.**
Address: 6369 Peachtree Street
Norcross, GA 30071
Tel. Number: 770-338-4990

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT:

In the continental U.S., call: **770-338-4990**
For additional non-emergency information, call: **770-277-8819**

Product Name: **ULTRAMARINE BLUE**

Synonyms: No information available
Chemical formula: Not available

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Percent	CAS Number	RTECS Number
Sodium Aluminium Sulphosilicate	100	57455-37-5	---

SECTION 3 – HAZARDS IDENTIFICATION

CAUTION: May be harmful if swallowed or inhaled

Replaces version dated: September 15, 2003

Aug 22 07 12:20p Milstead Environmental 2814194492 p.6

EPAHO103001405

SECTION 3 – HAZARDS IDENTIFICATION (CONTINUED)

Potential Health Effects

1. **Skin:** May cause skin irritation. May cause an allergic reaction in certain individuals.
2. **Eyes:** May cause eyes irritation.
3. **Inhalation:** May be harmful if inhaled.
4. **Ingestion:** May cause gastrointestinal tract irritation with nausea, vomiting and diarrhoea.
5. **Chronic information:** Prolonged or repeated exposure may cause severe irritation and dermatitis. Repeated inhalation may cause chronic bronchitis.

SECTION 4 – FIRST AID MEASURES

SEEK IMMEDIATE MEDICAL ATTENTION FOR ALL CASES OF OVEREXPOSURE

Skin: Immediately wash skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes and thoroughly clean before reuse. Seek medical attention.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Seek medical attention.

Inhalation: Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Do not induce vomiting unless directed to do so by a physician.

Note to Physician: Treat symptomatically and supportively.

Aug 22 07 12:21p Milstead Environmental 2814194492 p.7

EPAHO103001406

SECTION 5 – FIRE FIGHTING MEASURES

	Ultramarine Blue
Flammability Properties:	***Non combustible. Not considered to be a fire hazard.***
Flash Point / Method:	No information available.
Flammability Limits (in air % by volume)	No information available.
LEL:	No information available.
UEL:	No information available.
Auto ignition Temperature:	No information available.
Hazardous Combustion Products:	Sulphur dioxide gas may be released
Extinguishing Media:	Water, dry chemical foam, or alcohol-resistant foam.
Firefighting instructions:	As in any fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Aug 22 07 12:21p Milstead Environmental 2814194492 p.8

EPAHO103001407

SECTION 6 – ACCIDENTAL RELEASE MEASURES

General Information: Wear appropriate personal protective equipment as specified in Section 8.

Spills / Leaks: Take up and containerize any spills for reclamation or disposal. US CERCLA Regulations require reporting spills and releases to soil, water, and air in excess of reportable quantities.

SECTION 7 – HANDLING AND STORAGE PROCEDURES

Handling: Avoid breathing dust. Avoid contact with skin or eyes. Wash thoroughly after handling. Keep container tightly closed. Wear appropriate personal protective equipment as specified in Section 8.

Storage: Store in a tightly closed container in a cool, dry location away from incompatible substances.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Respiratory Protection: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements for European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Skin Protection: Wear appropriate protective clothing and gloves to prevent skin exposure.

Eye Protection: Wear appropriate protective eyeglasses or chemical safety goggles to prevent eye exposure.

To be continued

Aug 22 07 12:21p Milstead Environmental 2814194492 p.9

EPAHO103001408

Exposure Limits: Ultramarine Blue		
ACGIH	**NIOSH**	**OSHA Final PELs**
Ceiling Value < 10 mg/m^3 (8 hours) TWA < 5 mg/m^3 (8 hours)		

SECTION 9 – PHYSICAL / CHEMICAL PROPERTIES

Physical state	Solid
Appearance	Blue
Odor	Odorless
Ph	7-9 @ 100 g/l solution
S Loss	400 ºC
Melting Point	> 1000 º C
Vapor Pressure (mm Hg)	Not applicable
Vapor Density (Air=1)	Not applicable
Solubility in Water	Insoluble
Specific Gravity/Density	2.35 (water = 1)

Aug 22 07 12:22p Millstead Environmental 2814194492 p.10

EPAHO103001409

SECTION 10 – STABILITY AND REACTIVITY DATA

Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Above 400°C sulphur dioxide gas is released.

Incompatibility: Hydrogen sulphide may be released in contact with acids.

Hazardous Decomposition Products: Sulphur dioxide, hydrogen sulphide

Hazardous Polymerization: None

SECTION 11 – TOXICOLOGICAL INFORMATION

LD_{50} **(oral)** > 10 g/kg (rats)
Chronic / Carcinogenicity: no human carcinogen
Teratology: no teratogenic
Reproduction: no toxic for reproduction
Mutagenicity: no mutagenic
Other Studies: no information available

SECTION 12 – ECOLOGICAL INFORMATION

Environmental Fate: This material is not expected to biodegrade when released into the soil. This material is not expected to significantly bioaccumulate.

LC_{50} (fish) >32000 mg/kg

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of containers and contents in accordance with all local, state, and Federal requirements.

Aug 22 07 12:22p Milstead Environmental 2814194492 p.11

EPAHO103001410

SECTION 14 – TRANSPORTATION INFORMATION

D.O.T

Proper Shipping Name: Not applicable.
Hazard Class/I.D. No./Packing Group: Not applicable.
Label: Not applicable.
Additional Information: Not applicable.

I.M.O./I.M.D.G.

Proper Shipping Name: Not applicable.
Hazard Class/I.D. No./Packing Group: Not applicable.
Label: Not applicable.
Additional Information: Not applicable.

I.C.A.O./I.A.TA.

Proper Shipping Name: Not applicable.
Hazard Class/I. D. No. /Packing Group: Not applicable.
Label: Not applicable.
Additional Information: Not applicable.

Aug 22 07 12:22p Milstead Environmental 2814194492 p.12

EPAHO103001411

SECTION 15 – REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS

TSCA Section 8 (b): CAS # 57455-37-5 is listed on TSCA inventory.

SARA title III Section 302 Extremely Hazardous Substances (EHS): Since Ultramarine Blues are not EHS and no Threshold Planning Quantity is established, its presence in quantities at or above TPQ does not require any Emergency Planning Notification under 40 CFR Part 355.

SARA title III Section 304 CERCLA Hazardous Substances: Releases in quantities equal to or above their Reportable Quantity are not subject to any Emergency Notification, as no reportable quantity is established under 40 CFR Part 302.

SARA title III Sections 311 / 312: No reporting (Tier I or Tier II) shall be submitted by the facility under 40 CFR Part 370.

Physical Hazards

Fire: None
Sudden Release of Pressure: None
Reactivity: None

Health Hazards

Immediate (Acute): None
Delayed (Chronic): None

SARA title III Section 313 Toxic Chemicals: No reporting for routine annual toxic chemicals release shall be submitted under 40 CFR Part 372.

To be continued

Aug 22 07 12:23p Milstead Environmental 2814194492 p.13

EPAHO103001412

FDA

Ultramarine Blue is cleared in 21 CFR:

- Part 73 under § 73.50 (Color Additives Approved for Use in Human Food)(Salt intended for animal feed)
- Part 73 under § 73.2725 (Color Additives Approved for Use in Cosmetics)(Externally applied cosmetics including eye area use)
- Part 178 under §178.3297 (Colorants for Polymers)
- Part 177 under § 177.2600 (Colorants in Rubber Articles intended for repeated Use)

State Regulations

Ultramarine Blues do not appear on the following state Right to Know lists:

California Proposition 65
New Jersey RTK Hazardous Substance List
Pennsylvania Hazardous Substances List
Florida Toxic Substance List
Massachusetts Hazardous Substance List
Michigan Critical Materials Register
Minnesota Hazardous Substance List

Others

Canadian Environmental Protection Act Domestic Substances List **(DSL)**
Australian Inventory of Chemical Substances **(AICS)**
Japan Hygienic Olefin and Styrene Plastic Association **(JHOSPA)**
CONEG- Developed Model Toxics in Packaging Legislation

European Directives

Directive 94/62/EEC: EU Directive on Packaging and Packaging Waste; comparable to US CONEG Legislation
Resolution AP 89 (I): use of colorants in plastic materials and articles that may come into contact with foodstuffs.
Directive 2001/59/EC (last amendment of Dir. 67/548/EEC): Ultramarine Blues are not listed in Annex I (Dangerous Substances)

Aug 22 07 12:23p Milstead Environmental 2814194492 p.14

EPAHO103001413

SECTION 16 – OTHER INFORMATION

Not all the grades of Ultramarine Blues are recommended for cosmetic or food contact applications. Users are asked to contact our technical service for further information.

To the best of our knowledge, the information contained herein is accurate. However, neither Nubiola, Inc. nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The possibility exists that the EU will not recognize this MSDS due to the fact that several components of the MSDS are reflective of ANSI Z-400.1-1998. Although ILO (International Labor Organization) has adopted ANSI Z-400.1-1998, ultimate disposition lies with the competent authority.

Aug 22 07 12:24p Milstead Environmental 2814194492 p.15

EPAHO103001414

Economy Polymers 2239
2239

EPAHO103001415

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **6/25/2007**

Dear **Zac or Dave**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2239

Generator: Economy Polymers
Address: 435 E Anderson
Houston, TX 77047

Waste Information

Name of Waste: BA-2
TCEQ Waste Code #: CESQ1191
Container Type:
Detailed Description of Process Generating Waste:
Out of spec material
Color: clear **Odor:** mild **pH:** 8
Physical State:
Incompatibilities: na
Safety Related Data/Special Handling:
na

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

Attn. [illegible]
6pgp

DB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Economy Polymers
Address: 435 E. Anderson
City, State, Zip: Houston, TX 77047
Contact: Manny Chowdhory Title:
Phone No: 713-723-8416 Fax No: 713-723-1845
24/hr Phone:
U.S. EPA I.D. No: TXCESQG
State I.D. CESQG SIC Code: na

SECTION 2: Billing Information – ☐ Same as Above

Company: CYG Services
Address: 10707 Honea Egypt Rd
City, State, Zip: Montgomery, TX 77316
Contact: Traci Fisher Title: Office mgr
Phone No: 936-483-3662 Fax No: 936-483-3874

SECTION 3: General Description of the Waste

Name of Waste: BA-2
Detailed Description of Process Generating Waste: Out of ~~OFF~~ Spec Material

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Clear Odor: Mild

Specific Gravity (water=1): 1.20 Density: 10 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☑ Yearly
Number of Units (containers): 2 Other:
Texas State Waste Code No: ~~[illegible]~~ CESQ1191
Proper U.S. DOT Shipping Name: N/A Not Regulated
Class: Ø UN/NA: Ø PG: Ø RQ: Ø

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
7200°F	8.00	— mg/l	— mg/l	— %

Oil&Grease	TOC	Zinc	Copper	Nickel
— mg/l	— mg/l	— mg/l	— mg/l	— mg/l

EPAHO103001417

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	10-30	%
Tri-Isopropal Amine Hydrochloride	70-90	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
NA

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
NA

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:
TCLP Volatiles:
TCLP Semi-Volatiles:
Reactivity:
Corrosivity:
Ignitability:

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willfu omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 6/19/07

Printed Name/Title: Tim McHugh

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert C Theyard

Date: 6-25-07 (Approved) Rejected

Approval Number: 2239

Additional Information: Disposal $65/dm

Must dump and close Box immediately

IL

EPAHO103001418

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001419

Attn Levi 10 pgs

ECONOMY MUD PRODUCTS COMPANY

(b) (4)

[redacted]

(b) (4)

[redacted]

Soltex - Vertex Processing 2240
2240

EPAHO103001422

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **6/26/2007**

Dear **Kenn Young**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2240

Generator: Soltex-Vertex Processing
Address: 6655 West Bay Road
Baytown, TX 77520

Waste Information

Name of Waste: Recyclable hydrocarbons
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Rinse water used to clean-up spill
Color: brown **Odor:** hydrocarbon **pH:** na
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Soltex		
Address:	6655 West Bay Rd.		
City, State, Zip:	Baytown TX 77520		
Contact:	Kenn Young	Title:	
Phone No:	281-543-4155	Fax No:	
24/hr Phone:			
U.S. EPA I.D. No:	NA		
State I.D.	NA	SIC Code:	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Soltex		
Address:	3707 FM 1960 West		
City, State, Zip:	Houston Tx 77068		
Contact:		Title:	
Phone No:		Fax No:	

SECTION 3: General Description of the Waste

Name of Waste: Recyclable Hydrocarbons
Detailed Description of Process Generating Waste: Rinse water used to clean-up spill

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: brown Odor: hydrocarbon

Specific Gravity (water=1): 1 Density: 8.34 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☐	Drum	☐	Tote	☒	Truck	☐ Other (explain)
Container Size:						2000g	

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Year
Number of Units (containers): 1 Other:
Texas State Waste Code No: recycle
Proper U.S. DOT Shipping Name: non-dot regulated
Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point ~~>150~~ >140	pH 3-11	Reactive Sulfides n/amg/l	Reactive Cyanides n/amg/l	Solids n/a%
Oil&Grease n/amg/l	TOC n/amg/l	Zinc n/amg/l	Copper n/amg/l	Nickel n/amg/l

EPAHO103001424

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptab	Units or %
water	98-99	%
thixocal 7800	1-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Kenn Young **Date:** 6-26-07

Printed Name/Title: Kenn Young - Ops. Mgr.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information
Compliance Officer: Barbara Mangold Date: 6-26-07 (Approved) Rejected Approval Number: 2240	$69/Hr Trans + 0.18/gal + FSC

TOTAL P.02

EPAHO103001425

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001426

SOLTEX
SYNTHETIC OILS & LUBRICANTS
OF TEXAS, INC.

SOLTEX,INC.

3707 FM 1960 West, Suite 560
Houston, TX 77068
281-587-0900 Fax: 281-587-1998
www.soltexinc.com

ThixoCal 7600

February 16, 2007

1. Identification of substance and company.

Trade name: **ThixoCal™ 7600**

Chemical name: modified oil soluble calcium sulfonate, overbased

Company: Soltex, Inc. (Synthetic Oils & Lubricants of Texas, Inc.)
3707 FM 1960 West, Suite 560
Houston, TX 77068
USA

Phone number: 281-587-0900 or 800-275-8580

Emergency phone: 800-424-9300 (CHEMTREC - in USA and Canada)

2. Composition.

Chemical	CAS RN
One or More Oil Soluble Calcium Sulfonates	Trade Secrets
Mineral Spirits	64742-88-7
Calcium Carbonate	471-34-1

3. Hazards Information.

Hazardous Ingredients:
Mineral Spirits (hydrotreated light petroleum distillate) CAS RN: 64742-88-7

Summary of Risks:
Mineral Spirits: Millions of industrial workers in chemical process and allied industries have been exposed to mineral spirits with minimal serious health effects, aside from the drying, defatting (stripping away of your skin's protective fats and emolients), and irritant skin effects. However, overexposure can depress the central nervous system (CNS) with these symptoms: headache, dizziness, drowsiness, intoxication with euphoria, and possibly unconsciousness. Prolonged or repeated skin contact can cause dermatitis due to this mineral spirits' defatting effect or by sensitization.

EU Risk phrases

Symbols:	Xn	Harmful
R phrases:	R10	Flammable
	R65	Harmful may cause lung damage if swallowed
	R38	Irritating to skin

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R36	Irritating to eyes
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Canadian WHIMS:

Class B Division 3 Combustible Liquid

HMIS and NFPA HAZARD INDEX		HMIS and NFPA RATINGS	
Hazardous Materials Identification System	4 - Severe 3 - Serious 2 - Moderate 1 - Slight 0 - Minimal	Health Flammability Reactivity	1 2 0

4. **First aid measures.**

Immediate treatment:

Eye contact:
May cause eye irritation. Flush with large amounts of water for at least 15 minutes. Call a physician.

Skin contact:
Wash skin thoroughly with soap and water after handling. Prolonged or repeated contact may cause dermatitis (skin irritation).

If hot material contacts skin, immediately cool before attempting removal. Cool with water or ice. Apply topical dressing. Severe blistered burns should be treated by a physician.

Inhalation:
Remove to fresh air. If breathing is difficult, give oxygen and call a physician.

Ingestion:
Contact a physician.

NOTE TO PHYSICIANS

Routes of entry: Eyes, skin, ingestion, inhalation of mist.
Target organs: Eyes, skin, respiratory system., central nervous system
Mineral Spirits: Aspiration of even a few milliliters of mineral spirits can be fatal! The resulting diffused chemical irritation of the lungs can progress to fatal pulmonary edema after aspiring liquid mineral spirits. To prevent their aspiration of freshly vomited solvent, carefully monitor persons who swallow mineral spirits. Consider intubation in treating any significant ingestion.

5. **Fire fighting measures.**

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Special hazards or procedures:

This product contains Mineral Spirits (Flash point (ASTM D-92): 105°F (41°C)). It is not exceedingly volatile, but will easily burn. Vapors may travel to an ignition source and flash back. Oxides of carbon (CO and CO_2) and sulfur (SO_2) will be given off while burning. This product will float upon water, so water spray is not a suitable extinguishing agent as it may cause fire to spread. See Extinguishing Media.

Protective equipment:
As in any fire, firefighters must be equipped to prevent breathing of vapors or products of combustion. Wear an approved self-contained breathing apparatus and protective clothing.

Extinguishing media:
Dry chemical, water fog, CO_2, foam, or sand/earth. Closed containers may be cooled with water.

6. Accidental release measures.

Procedures for spill clean-up:
Shut off leak and dike up large spills. Eliminate heat and ignition sources, provide optimum explosion-proof ventilation. Absorb with an inert material such as sand, soil or vermiculite. Sweep up absorbent and dispose according to regulatory requirements.

7. Handling and storage.

Handling:
Keep drums tightly closed to prevent contamination. Avoid skin and eye contact. Wear recommended personal protection equipment. Discard or wash contaminated clothing before reuse.
ATTENTION: Never use pressure to empty drums.

Storage:
Maximum storage temperature: below flash point of 105°F (41°C).

8. Exposure control/personal protection.

Ventilation required:
Use additional ventilation if needed to control vapor concentrations particularly if a mist is generated or fumes from hot material are present. Maintain solvent below exposure limits in Section 11. Respiratory protection is required when levels exceed limits.

Respiratory protection:
None required if area adequately ventilated. Use appropriate respiratory protection if used in confined areas or when levels exceed limits. If used in an application where a mist may be generated, observe a TWA/PEL of 5 mg/m^3 (OSHA, ACGIH) for a mineral oil mist. Use a respirator with dual organic vapor/mist and particulates cartridge if vapor concentration exceeds permissible exposure limit.

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Skin protection:
Rubber or plastic solvent resistant gloves and aprons.

Eye protection:
Wear chemical safety goggles and/or a face shield. Contact lenses should not be worn.

9. **Physical and chemical properties.**	**Typical Values**
Physical state at 25 °C:	Viscous liquid
Color:	Tan
Odor:	Slight, kerosene like
Changes in physical state at 1 bar:	No data available/none expected
Vapor pressure at 20 °C (mm Hg):	>2, based upon solvent
Vapor density (air = 1):	>4, based upon solvent
Viscosity at 40 °C (SUS):	>100
Solubility in H_2O at 25 °C:	negligible
pH (1%):	No data available
Flash point (ASTM D-92):	105°F (41°C)
Autoignition temperature:	No data available
Flammability limits in air:	Lower: 0.7 Upper: 6, based upon solvent
Volatile (by weight %)	<50%

10. Stability and reactivity.

This product is stable and not subject to hazardous polymerization.

Hazardous decomposition products:

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OF TEXAS, INC.

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Oxides of carbon (carbon monoxide carbon dioxide), oxides of hydrogen (water), oxides of sulfur (sulfur dioxide), and oxides of calcium are all formed from burning.

Incompatible materials:
Strong oxidizers such as hydrogen peroxide, oxidizing chlorine and bromine compounds (e.g. chlorine bleach), and chromic acid.

Conditions to avoid:
Oxidizing agents; skin and eye contact.

11. Toxicological information.

Acute toxicity:
May cause eye and skin irritation. The handling procedures and safety precautions in this MSDS should be followed to minimize employee exposure.

mineral oil mist: TWA/PEL of 5 mg/m^3 (OSHA, ACGIH)

mineral spirits: Irritation, redness of skin and eyes; narcotic effects like dizziness, slurred speech, or drunkenness. Ingestion may cause nausea, vomiting, diarrhea, and abdominal pain. After ingestion, the primary concern is aspiration into the lungs. Signs of aspiration pneumonitis include: fever, shortness of breath, increased rate of respiration, and rales (an abnormal rattling sound in the throat). Inhaling this material may cause arrhythmia.

mineral spirits:
OSHA PEL: TWA-air: 500 ppm, 2900 mg/m 3
ACGIH TLV, 1989-90: TLV-TWA: 100 ppm, 525 mg/m 3
NIOSH REL, 1987: 10-hr TWA: 350 mg/m 3 15-min Ceiling: 1800 mg/m 3
Toxicity Data†: Cat, inhalation, LC Lo : 10 g/m 3 /2.5 hr
† See NIOSH, *RTECS*, for additional data with references to irritative effects.

Chronic toxicity for mineral spirits:
None reported in humans.
Carcinogenicity: Neither the NTP, IARC, nor OSHA lists mineral spirits as a carcinogen.

12. Ecological information.

No data available.

13. Disposal considerations.

A hazardous waste (ignitable D001) if disposed of as is, by the definitions of the U.S. EPA. Dispose of properly complying with appropriate laws and regulations.

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www.soltexinc.com

14. Transportation information.

US DOT Ground:
Regulated for transport when shipped in bulk (greater than 118.9 gallons) containers:
Proper shipping Name Combustible Liquid, n.o.s. contains Mineral Spirits
Hazard Class 3 Combustible Liquid, PGIII
ID Number: NA1993
Or if shipped in any size container at temperatures greater than its' flash point (105°F):
Proper shipping Name: Elevated Temperature, Liquid, Flammable, n.o.s.
Hazard Class: 3
ID Number: UN3256, PGIII
US DOT Other Than Ground, Canadian TDG:
This product is not regulated when shipped in containers up to 454 liters. This product is classed as flammable liquid when shipped in containers over 454 liters and will require TDG documentation.
Proper shipping Name for regulated quantities:
Petroleum Products, n.o.s. contains Mineral Spirits
TRANSPORTATION OF DANGEROUS GOODS CLASSIFICATION:
CLASS: 3.3, UN1268, PGIII.

15. Regulatory information.

EU labeling:

Symbols:	Xn	Harmful
R phrases:	R10	Flammable
	R65	Harmful, may cause lung damage if swallowed
	R36	Irritating to eyes
	R38	Irritating to skin
	R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
S phrases :	2	Keep out of reach of children
	36/37/39	'wear suitable clothing protective /wear suitable gloves/wear eye/face protection'
	24/25	'avoid contact with skin/ avoid contact with eyes'
	26	'in case contact of with eyes rinse with plenty of water and seek medical advice'
	28 (soap and water)	'after contact with skin, wash immediately with plenty of "soap and water"'
	43 (never use water)	In case of fire, never use water
	EU labeling:	Continued
	61	Avoid release to the environment
	62	Do not induce vomiting: seek medical advice and show this label

Canadian WHIMS:
Class B Division 3 Combustible Liquid

US OSHA Designations:

Shell Global 2241
2241

EPAHQ1030001433

7E
8-4-09
LAB
T-34

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **6/26/2007**

Dear **Juan Mendez**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2241

Generator: Shell Global
Address: 780 Clinton Drive
Galena Park, TX 77547

Waste Information

Name of Waste: Empty containers
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Empty containers from 1 gal to 350 gal that formerly stored various chemicals
Color: varies **Odor:** none **pH:** na
Physical State:
Incompatibilities: n/a
Safety Related Data/Special Handling:
none

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

JOY

SECTION 1: Generator Information

Company:	Shell Lubricants		
Address:	780 Clinton Drive (P.O. Box 4427, Houston, TX 77210)		
City, State, Zip:	Galena Park, TX 77547		
Contact:	Juan Mendez	**Title:**	Environmental Technician
Phone No:	713-277-3886	**Fax No:**	713-277-3937
24/hr Phone:	713-546-8505		
U.S. EPA I.D. No:	TXD150364289		
State I.D.	39781	**SIC Code:**	N/A

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Empty Containers
Detailed Description of Process Generating Waste: Empty containers from 1 gal to 350 gal that formerly stored various chemicals

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: varies **Odor:** none

Specific Gravity (water=1): 2 **Density:** 15 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☒	**Drum**	☒	**Tote**	☐ **Truck**	☐	**Other (explain)**
Container Size:		varies		varies			

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 10 **Other:** as requested
Texas State Waste Code No: Recycable
Proper U.S. DOT Shipping Name: non DOT Regulated Material
Class: N/A **UN/NA:** N/A **PG:** N/A **RQ:** N/A

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
N/A	N/A	N/Amg/l	N/Amg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
N/Amg/l	N/Amg/l	N/Amg/l	N/Amg/l	N/Amg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Empty metal containers	0-100	%
Empty poly containers	0-100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
None

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
N/A

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: N/A
TCLP Volatiles: N/A
TCLP Semi-Volatiles: N/A
Reactivity: N/A
Corrosivity: N/A
Ignitability: N/A

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** June 25, 2007

Printed Name/Title: Juan Mendez

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 6-26-07 Approved Rejected

Approval Number: 2241

Additional Information: Pricing: $125/cu.yd bag of empty pails
$15/drum - 55 gal
$80/empty tote
recycle if possible - otherwise shred & dispose

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001438

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001439

2213 Lubrizol – Deer Park
2213

EPAHO103001440

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/29/2007**

Dear **Frank Hejtmanek**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2213

Generator: Lubrizol-Deer Park
Address: 41 Tidal Rd. (Attn: Frank Hejtmanek)
Deer Park, TX 77536

Waste Information

Name of Waste: S-9 Seal pot waters with low alcohol concentrations
TCEQ Waste Code #: 00671142
Container Type:
Detailed Description of Process Generating Waste:
Removal of alcohol vapors from process vents
Color: amber to clear **Odor:** slight alcohol **pH:** 5.2-9.5
Physical State:
Incompatibilities: na
Safety Related Data/Special Handling:
none

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Lubrizol Corporation		
Address:	41 Tidal Road PO Box 158		
City, State, Zip:	Deer Park Texas 77536-0158		
Contact:	Frank Hejtmanek	**Title:**	Environmental
Phone No:	281-479-2851 Ext. 7843	**Fax No:**	832-260-7847
24/hr Phone:	832-260-7843		
U.S. EPA I.D. No:	TXDO41067638		
State I.D.	30325	**SIC Code:**	2869

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: S-9 Seal Pot Waters with Low Alcohol Concentrations
Detailed Description of Process Generating Waste: Removal of Alcohol vapors from Process Vents

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: amber to clear **Odor:** slight alcohol

Specific Gravity (water=1): 1 **Density:** 8.3 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☐ Drum	☒ Tote	☒ Truck	☐ Other (explain)
Container Size:	____	____	5000 G	____

Frequency: ☒ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 2 **Other:** ____
Texas State Waste Code No: 0067-114-2
Proper U.S. DOT Shipping Name: Non- RCRA Non DOT Regulated Material
Class: na **UN/NA:** na **PG:** na **RQ:** na

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>150	5.2 - 9.5	NDmg/l	NDmg/l	.05%

Oil&Grease	TOC	Zinc	Copper	Nickel
0mg/l	8500mg/l	0mg/l	0mg/l	0mg/l

EPAHO103001442

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	90-98	%
Methanol	0-8	%
Isobutanol	0-2	%
Decyl Alcohol	0-2	%
Ethanol	0-2	%
Ethylene Glycol	0-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
none

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Analitical

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
NA

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ____
TCLP Volatiles: ____
TCLP Semi-Volatiles: ____
Reactivity: ____
Corrosivity: ____
Ignitability: ____

SECTION 9: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Frank Hejtmanek **Date:** 05/29/2007

Printed Name/Title: Frank Hejtmanek

CES USE ONLY (DO NOT WRITE IN THIS SPACE)
Compliance Officer: [signature]
Date: 5-29-07 Approved Rejected
Approval Number: 2213

Process Facility Information:
Put through R/O or New Park
IL

EPAHO103001443

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001444

e-Lab Analytical, Inc.

Date: *May 22, 2007*

CLIENT: Lubrizol Corporation
Work Order: 0705335
Project: TCLP Analysis
Lab ID: 0705335-01

Client Sample ID: Q-6-1720
Collection Date: 5/15/2007 9:00:00 AM
Matrix: LIQUID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
TCLP MERCURY			**SW7470**		Prep Date: **5/18/2007**	Analyst: **JCJ**
Mercury	ND		0.000200	mg/L	1	5/18/2007 4:03:31 PM
TCLP METALS, ICP			**SW1311/6020**		Prep Date: **5/18/2007**	Analyst: **SA**
Arsenic	ND		0.0500	mg/L	10	5/18/2007 6:53:00 PM
Barium	**0.0635**		**0.0500**	**mg/L**	10	5/18/2007 6:53:00 PM
Cadmium	ND		0.0500	mg/L	10	5/18/2007 6:53:00 PM
Chromium	ND		0.0500	mg/L	10	5/18/2007 6:53:00 PM
Lead	ND		0.0500	mg/L	10	5/18/2007 6:53:00 PM
Selenium	ND		0.0500	mg/L	10	5/18/2007 6:53:00 PM
Silver	ND		0.0500	mg/L	10	5/18/2007 6:53:00 PM
TCLP SEMIVOLATILES			**SW1311/8270**		Prep Date: **5/21/2007**	Analyst: **ACN**
2,4,5-Trichlorophenol	ND		5.0	µg/L	1	5/21/2007 4:28:00 PM
2,4,6-Trichlorophenol	ND		5.0	µg/L	1	5/21/2007 4:28:00 PM
2,4-Dinitrotoluene	ND		5.0	µg/L	1	5/21/2007 4:28:00 PM
Cresols, Total	ND		30	µg/L	1	5/21/2007 4:28:00 PM
Hexachlorobenzene	ND		5.0	µg/L	1	5/21/2007 4:28:00 PM
Hexachlorobutadiene	ND		5.0	µg/L	1	5/21/2007 4:28:00 PM
Hexachloroethane	ND		5.0	µg/L	1	5/21/2007 4:28:00 PM
Nitrobenzene	ND		5.0	µg/L	1	5/21/2007 4:28:00 PM
Pentachlorophenol	ND		5.0	µg/L	1	5/21/2007 4:28:00 PM
Pyridine	ND		5.0	µg/L	1	5/21/2007 4:28:00 PM
Surr: 2,4,6-Tribromophenol	*79.3*		*42-124*	*%REC*	1	5/21/2007 4:28:00 PM
Surr: 2-Fluorobiphenyl	*69.8*		*48-120*	*%REC*	1	5/21/2007 4:28:00 PM
Surr: 2-Fluorophenol	*72.0*		*20-120*	*%REC*	1	5/21/2007 4:28:00 PM
Surr: 4-Terphenyl-d14	*70.2*		*51-135*	*%REC*	1	5/21/2007 4:28:00 PM
Surr: Nitrobenzene-d5	*69.8*		*41-120*	*%REC*	1	5/21/2007 4:28:00 PM
Surr: Phenol-d6	*57.9*		*20-120*	*%REC*	1	5/21/2007 4:28:00 PM
TCLP VOLATILES			**SW1311/8260B**		Prep Date: **5/17/2007**	Analyst: **PC**
1,1-Dichloroethene	ND		100	µg/L	20	5/18/2007 8:15:00 PM
1,2-Dichloroethane	ND		100	µg/L	20	5/18/2007 8:15:00 PM
1,4-Dichlorobenzene	ND		100	µg/L	20	5/18/2007 8:15:00 PM
2-Butanone	**6,500**		**200**	**µg/L**	20	5/18/2007 8:15:00 PM
Benzene	ND		100	µg/L	20	5/18/2007 8:15:00 PM
Carbon tetrachloride	ND		100	µg/L	20	5/18/2007 8:15:00 PM
Chlorobenzene	ND		100	µg/L	20	5/18/2007 8:15:00 PM
Chloroform	ND		100	µg/L	20	5/18/2007 8:15:00 PM
Tetrachloroethene	ND		100	µg/L	20	5/18/2007 8:15:00 PM
Trichloroethene	ND		100	µg/L	20	5/18/2007 8:15:00 PM
Vinyl chloride	ND		100	µg/L	20	5/18/2007 8:15:00 PM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

EPAHO103001445

e-Lab Analytical, Inc.

Date: *May 22, 2007*

CLIENT: Lubrizol Corporation
Work Order: 0705335
Project: TCLP Analysis
Lab ID: 0705335-01

Client Sample ID: Q-6-1720
Collection Date: 5/15/2007 9:00:00 AM
Matrix: LIQUID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 1,2-Dichloroethane-d4	*98.9*		*70-125*	*%REC*	20	5/18/2007 8:15:00 PM
Surr: 4-Bromofluorobenzene	*99.1*		*72-125*	*%REC*	20	5/18/2007 8:15:00 PM
Surr: Dibromofluoromethane	*105*		*71-125*	*%REC*	20	5/18/2007 8:15:00 PM
Surr: Toluene-d8	*106*		*75-125*	*%REC*	20	5/18/2007 8:15:00 PM
CYANIDE, REACTIVE			**SW-846**			Analyst: **MAG**
Reactive Cyanide	ND		40.0	mg/Kg	1	5/21/2007
SULFIDE, REACTIVE			**SW-846**			Analyst: **MAG**
Reactive Sulfide	ND		40.0	mg/Kg	1	5/21/2007
FLASHPOINT			**SW1010**			Analyst: **MAM**
Ignitability	**>160**		**50.0**	**°F**	1	5/18/2007
PH			**E150.1**			Analyst: **MAM**
pH	**5.20**	H	**0.100**	**pH units**	1	5/17/2007

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
P - Dual Column results percent difference > 40%
E - Value above quantitation range
H - Analyzed outside of Hold Time

EPAHO103001446

Enterprize
2214

2214

EPAHO103001447

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/25/2007**

Dear **Mike Tomerlin**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2214

Generator: Enterprise Products Operating, L.P. (Morgan Point Facility)
Address: 1200 North Broadway
LaPorte, TX 77571

Waste Information

Name of Waste: Universal waste
TCEQ Waste Code #: n/a
Container Type: boxes/pallets
Detailed Description of Process Generating Waste:
Universal waste generated from daily operations
Color: varies **Odor:** none **pH:** na
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DC

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company:	Enterprise Products Operating, L.P. (Morgans Point Facilty)		
Address:	1200 North Broadway		
City, State, Zip:	Laporte, TX 77571-3031		
Contact:	Stephen Craig	**Title:**	Environmental Scientist
Phone No:	281-385-4396	**Fax No:**	281-385-4532
24/hr Phone:	713-320-4591		
U.S. EPA I.D. No:	TXD008084238		
State I.D.	30282 UNIV WASTE	**SIC Code:**	na

SECTION 2: Billing Information – ☐ Same as Above

Company:	Enterprise Products Operating, (Morgans Point Facility)		
Address:	PO Box 573		
City, State, Zip:	Mont Belvieu, TX 77580-0573		
Contact:	Accounts Payable	**Title:**	
Phone No:	281-385-4200	**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Universal Waste
Detailed Description of Process Generating Waste: Universal waste generated from daily operations

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: varies **Odor:** none

Specific Gravity (water=1): NA **Density:** NA lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☒ Other (explain) boxes/pallets
Container Size: ____ ____ ____

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 10 **Other:** ____
Texas State Waste Code No: N/A
Proper U.S. DOT Shipping Name: Varies per material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
NA	NA	NAmg/l	NAmg/l	~~NA%~~ 100

Oil&Grease	TOC	Zinc	Copper	Nickel
NAmg/l	NAmg/l	NAmg/l	NAmg/l	NAmg/l

EPAHO103001449

SECTION 4: Physical and Chemical Data

COMPONENT/ANALYTE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Non PCB Ballasts	0-100	%
Non PCB Capacitors	0-100	%
Non PCB Transformers	0-100	%
Light Bulbs (flourescent/incandescent/nid)	0-100	%
Batteries (lithium/lead acid/nickel cadmium/alkaline)	0-100	%
Computer monitors/cpu	0-100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 5/29/07

Printed Name/Title: Stephen Craig

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 6-1-07 (Approved) Rejected

Approval Number: 2214

Process Facility Information: UNIV

Upon receipt count all bulbs + size, Separate out and weigh all batteries separately (by type), separate and weigh capacitors, transformers, and ballasts separately. be sure to reject any pcb containing materials. Be sure to document all on Bill of lading

EPAHO103001450

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001451

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001452

BW Services
2215

2215

EPAHO103001453

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/25/2007**

Dear **Brandon Dougles**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2215

Generator: BW Services
Address: 1100 Wayne Drive
Angleton, TX 77515

Waste Information

Name of Waste: Unused asphalt
TCEQ Waste Code #: 00114091
Container Type:
Detailed Description of Process Generating Waste:
Unused asphalt at room temperature cleaned from rail cars
Color: brown to black **Odor:** petroleum **pH:** na
Physical State:
Incompatibilities: oxidizers, acids, and halogens
Safety Related Data/Special Handling:
level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

DB

SECTION 1: Generator Information

Company:	BW Services		
Address:	1100 Wayne Drive		
City, State, Zip:	Angelton, TX 77515		
Contact:	Brandon	Title:	Manager
Phone No:	979-848-8800	Fax No:	979-848-9990
24/hr Phone:	979-848-8800		
U.S. EPA I.D. No:	TXD086467800		
State I.D.	30207	SIC Code:	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		Title:	
Phone No:		Fax No:	

SECTION 3: General Description of the Waste

Name of Waste: Unused Asphalt
Detailed Description of Process Generating Waste: Unused asphalt at room temperature cleaned from rail cars.

Physical State: ☐ Liquid ☒ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: Brown to Black Odor: petroleum

Specific Gravity (water=1): 1-1.2 Density: 9 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 G

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 12 Other: ____
Texas State Waste Code No: 00114091
Proper U.S. DOT Shipping Name: Non-RCRA, Non-DOT Regulated Waste Asphalt (At Room Temperature)
Class: Na UN/NA: Na PG: Na RQ: Na

Flash Point >200	pH NA	Reactive Sulfides 0mg/l	Reactive Cyanides 0mg/l	Solids 100%
Oil&Grease Namg/l	TOC Namg/l	Zinc Namg/l	Copper Namg/l	Nickel Namg/l

MAY-05-2004 01:36 From: To:713 676 1676 P.6/9
MAY-29-2007 11:30 CES Environmental Svcs. 7137488664 P.06

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Unused Asphalt	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS Sheets

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers, acids and Hologens

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Brandon White **Date:** 05/04/07

Printed Name/Title: Brandon White

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Kathleen Mangan

Date: 6-1-07 Approved Rejected

Approval Number: 2215

Process Facility Information: OS

$50/ton - Shred Solids
$67/MT Trans

MAY-05-2004 01:36 From: To:713 676 1676 P.7/9
MAY-29-2007 11:30 CES Environmental Svcs. 7137488664 P.07

EPAHO103001456

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

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EPAHO103001457

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001458

SGAX 1007

OK

MATERIAL SAFETY DATA SHEET

Asphalt

VALERO MARKETING & SUPPLY COMPANY
and Affiliates
P.O. Box 696000
San Antonio, TX 78269-6000

Emergency Phone Numbers
24 Hour Emergency: 866-565-5220
Chemtrec Emergency: 800-424-9300

General Assistance
General Assistance: 210-345-4593

BRAND NAMES Valero, Diamond Shamrock, Shamrock, Ultramar Beacon, Total

Section 1. Chemical Product and Company Identification

Common / Trade name : Asphalt

Synonym : PBA/PG Grade Paving Asphalt, AR/AC Paving Grade Asphalt, AC Grade Petroleum Asphalt, Asphalt Cement, PEN Grade Asphalt, AS20, Emulsion Base Stock (E.B.S.)-Asphalt, Roofing Flux, Roofing Saturant, Solvent Deasphalted Bottoms Petroleum Asphalt, Propane Deasphalted Bottoms Petroleum Asphalt, Vacuum Tower Bottoms Petroleum Asphalt, Steam Refined Asphalt, Oxidized Petroleum Asphalt, Built Up Roofing Asphalt (BURA) - Type I, II, III, & IV; ASTM D-312 Roofing Asphalt - Type I, II, III, & IV; Coating Asphalt, Damp Roofing ASTM D 449-89 - Type I, II, III, & IV

SYNONYMS/COMMON NAMES: This Material Safety Data Sheet applies to the listed products and synonym descriptions for Hazard Communication purposes only. Technical specifications vary greatly depending on the product and are not reflected in this document. Consult specification sheets for technical information. This product contains ingredients that are considered to be hazardous as defined by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Material uses : PAVING AND ROAD-COATING; ROOFING; SEALING AND JOINT FILLING; SPECIAL PAINTS; ADHESIVE IN ELECTRICAL LAMINATES AND HOT-MELT COMPOSITIONS; DILUENT IN LOW-GRADE RUBBER PRODUCTS; FLUID LOSS CONTROL IN HYDRAULIC FRACTURING OF OIL WELLS; MEDIUM FOR RADIOACTIVE WASTE DISPOSAL; PIPELINE AND UNDERGROUND CABLE COATING; RUST-PREVENTIVE HOT-DIP COATINGS; BASE FOR SYNTHETIC TURF; WATER-RETAINING BARRIER FOR SANDY SOIL.

MSDS# : 208

CAS # : 8052-42-4

Section 2. Composition, Information on Ingredients

Name	CAS number	Concentration (%)
Asphalt	8052-42-4	0 - 100
Asphalt (oxidized)	64742-93-4	0 - 100
Vacuum Tower Bottoms	64741-56-6	0 - 100
Distillates, petroleum residues vacuum	68955-27-1	0 - 15
Polycyclic Aromatic Hydrocarbons	130498-29-2	<0.1
Hydrogen Sulfide	7783-06-4	<0.1

Continued on next page

Section 3. Hazards Identification

Danger! Product May Contain or Release Hydrogen Sulfide. H2S is a highly toxic, highly flammable gas which can be fatal if inhaled at certain concentrations.

CAUTION: This product is normally shipped very hot (above 300°F). Contact causes burns and skin irritation. Do not mix hot asphalt with water. May cause irritation to eyes, skin and respiratory system. Avoid liquid, mist and vapor contact. Harmful or fatal if swallowed. Aspiration hazard, can enter lungs and cause damage. May cause irritation or be harmful if inhaled or absorbed through the skin. Avoid prolonged or repeated skin contact. Contains polycyclic aromatic compounds which have been shown to cause anemia, disorders of the liver, bone marrow and lymphoid tissues in rats following dermal application. Product is stored and shipped hot so thermal burns are a risk. Vapors may explode at temperatures near flashpoint. AVOID CONTACT WITH SKIN!

Physical state : Liquid. DARK BROWN TO BLACK LIQUID WITH A STRONG PETROLEUM ODOR AT NORMAL USE TEMPERATURES ABOVE 350F. SEMI-SOLID A 70F.

Emergency overview : Warning!

CAUSES SKIN IRRITATION.
CAUSES DAMAGE TO THE FOLLOWING ORGANS: RESPIRATORY TRACT, SKIN, EYE, LENS OR CORNEA.
POSSIBLE CANCER HAZARD
CONTAINS MATERIAL WHICH MAY CAUSE CANCER BASED ON ANIMAL DATA.
Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Risk of cancer depends on duration and level of exposure.

Routes of entry : Dermal contact. Eye contact. Inhalation Ingestion.

Potential acute health effects

Eyes : This product is normally stored and shipped hot (300 F to 375 F) and thermal burns are a risk. At ambient temperature, may cause severe irritation, redness, tearing, blurred vision and conjunctivitis.

Skin : This product is normally stored and shipped hot (300° F to 375° F) and thermal burns are a risk. Prolonged or repeated contact may cause moderate irritation, defatting (cracking), redness, itching, inflammation, dermatitis and possible secondary infection. Possible cancer hazard based on skin painting studies in laboratory animals. High pressure skin injections are SERIOUS MEDICAL EMERGENCIES. Injury may not appear serious at first. Within a few hours, tissues will become swollen, discolored and extremely painful. See Notes to Physician section.

Inhalation : Nasal and respiratory tract irritation, central nervous system effects including excitation, euphoria, contracted eye pupils, dizziness, drowsiness, blurred vision, fatigue, nausea, headache, loss of reflexes, tremors, convulsions, seizures, loss of consciousness, coma, respiratory arrest and sudden death could occur as a result of long term and/or high concentration exposure to vapors. May also cause anemia and irregular heart rhythm.

Ingestion : This product may be harmful or fatal if swallowed. This product may cause nausea, vomiting, diarrhea and restlessness. DO NOT INDUCE VOMITING. Aspiration into the lungs can cause severe chemical pneumonitis or pulmonary edema/hemorrhage, which can be fatal. May cause gastrointestinal disturbances. Symptoms may include irritation, depression, vomiting and diarrhea. May cause harmful central nervous system effects, similar to those listed under "inhalation".

Medical conditions aggravated by overexposure: : Preexisting eye, skin, heart and respiratory disorders may be aggravated by exposure to this product. Skin contact may aggravate existing dermatitis.

Over-exposure signs/symptoms : Nasal and respiratory tract irritation, central nervous system effects including excitation, euphoria, contracted eye pupils, dizziness, drowsiness, blurred vision, fatigue, nausea, headache, loss of reflexes, tremors, convulsions, seizures, loss of consciousness, coma, respiratory arrest or sudden death could occur as a result of long term and/or high concentration exposure to vapors. May also cause anemia and irregular heart rhythm.

See toxicological Information (section 11)

Continued on next page

Section 4. First Aid Measures

Eye contact : Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if pain or redness continues.

Skin contact : Immediately contact physician for thermal burns. In case of skin contact with hot product, immediately immerse or drench the affected area in water to assist cooling. Get medical attention. Remove contaminated clothing promptly and launder before reuse. Contaminated leather goods should be discarded. If irritation persists or symptoms described in the MSDS develop, seek medical attention. High pressure skin injections are SERIOUS MEDICAL EMERGENCIES. Get immediate medical attention.

Inhalation : Remove to fresh air. If breathing is difficult, ensure clear airway and administer oxygen. If not breathing, apply artificial respiration or cardiopulmonary resuscitation. Keep person warm, quiet and get medical attention.

Ingestion : Never give anything by mouth to an unconscious person. DO NOT induce vomiting. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis which can be fatal. Give vegetable oil or charcoal slurry to retard absorption. If spontaneous vomiting occurs, keep head below hips to prevent aspiration of liquid into lungs and monitor for breathing difficulty. SEEK IMMEDIATE MEDICAL ATTENTION. Keep person warm and quiet.

Notes to physician : In case of ingestion, gastric lavage with activated charcoal can be used promptly to prevent absorption. Consideration should be given to the use of an intratracheal tube, to prevent aspiration. Irregular heart beat may occur, use of adrenalin is not advisable. Individuals intoxicated by the product should be hospitalized immediately, with acute and continuing attention to neurological and cardiopulmonary function. Positive pressure ventilation may be necessary. After the initial episode, individuals should be followed for changes in blood variables and the delayed appearance of pulmonary edema and chemical pneumonitis. Such patients should be followed for several days or weeks for delayed effects, including bone marrow toxicity, hepatic and renal impairment. Individuals with chronic pulmonary disease will be more seriously impaired, and recovery from inhalation exposure may be complicated. In case of skin injection, prompt debridement of the wound is necessary to minimize necrosis and tissue loss.

Section 5. Fire Fighting Measures

Flammability of the product : May ignite at temperatures near flashpoint.

Auto-ignition temperature : >315.6°C (600.1°F)

Flash point : Closed cup: >176.7°C (350.1°F).

Flammable limits : Lower: 0.9% Upper: 7%

Products of combustion : Combustion may produce carbon monoxide, carbon dioxide and reactive hydrocarbons (aldehydes, aromatics, etc.) compounds, nitrogen oxides, sulfur oxides, particulate matter, and hydrogen sulfide.

Fire fighting media and instructions : When heated above its flash point, this material will release flammable vapors which, if exposed to a source of ignition, can burn in the open or be explosive in confined spaces. Mists or sprays may be flammable at temperatures below the normal flash point. Dry chemical, halon carbon dioxide are the preferred extinguishing media. Foam and water fog are effective but can cause frothing. Big fires, such as tank fires, should be fought with caution. If the burning liquid is 200F or hotter, the use of water, water spray, or foam can cause frothing and even sudden boilover of the tank, endangering the lives of personnel such as firefighters. If possible, pump the contents from the tank and keep adjoining structures cool with water. Water can be used to cool fire-exposed containers, structures and to protect personnel If a leak or spill has not ignited, ventilate area and use water spray to disperse gas or vapor and to protect personnel attempting to stop a leak. Use water to flush spills away from sources of ignition. Do not flush down public sewers.

Continued on next page

Special protective equipment for fire-fighters : Dangerous when exposed to heat or flame. Vapors may form flammable or explosive mixtures at elevated temperatures. Vapor or gas may spread to distant ignition sources (pilot lights, welding equipment, electrical equipment, etc.) and flash back. Vapors may accumulate in low areas. Vapors may concentrate in confined areas. Flowing product can be ignited by self generated static electricity. Use adequate bonding and grounding to prevent static buildup. Runoff to sewer may cause fire or explosion hazard. Containers may explode in heat of fire. Irritating or toxic substances may be emitted upon thermal decomposition. For fires involving this material, do not enter any enclosed or confined space without proper protective equipment, which may include NIOSH approved self-contained breathing apparatus with full face mask. Clothing,rags or similar organic material contaminated with this product and stored in a closed space may udergo spontaneous combustion. Transfer to and from commonly bonded and grounded containers.

Special remarks on fire hazards : No additional remark.

Special remarks on explosion hazards : No additional remark.

Section 6. Accidental Release Measures

Personal precautions : Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Tanks, vessels or other confined spaces which have contained product should be freed of vapors before entering. The container should be checked to ensure a safe atmosphere before entry. Empty containers may contain toxic,flammable/combustible or explosive residues or vapors. Do not cut, grind, drill, weld or reuse empty containers that contained this product. Do not transfer this product to another container unless the container receiving the product is labeled with proper DOT shipping name, hazard class and other information that describes the product and its hazards.

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. If facility or operation has an "oil or hazardous substance contingency plan", activate its procedures. Stay upwind and away from spill. Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not enter or stay in area unless monitoring indicates that it is safe to do so. Isolate hazard area and restrict entry to emergency crew. Review Fire and Explosion Hazard Data before proceeding with clean up. Keep all sources of ignition (flames, smoking, flares, etc.) away from release. Contain spill in smallest possible area. Recover as much product as possible (e.g., by vacuuming). Stop leak if it can be done without risk. Use water spray to disperse vapors. Spilled material may be absorbed by an appropriate absorbent, and then handled in accordance with environmental regulations. Prevent spilled material from entering sewers, storm drains, other unauthorized treatment or drainage systems and natural waterways. Contact fire authorities and appropriate federal, state and local agencies. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines, contact the National Response Center at 800-424- 8802. For highway or railway spills, contact Chemtrec at 800-424-9300.

Methods for cleaning up : If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

Section 7. Handling and Storage

Handling : Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Use only in well ventilated locations. Keep away from spark and flames. In case of fire, use water spray, foam, dry chemical or carbon dioxide as described in the Fire and Explosion Hazard Data section of the MSDS. Do not pressurize, cut, weld, braze, solder, drill on or near this container. "Empty" container contains residue (liquid and/or vapor) and may explode in heat of a fire.

Keep out of reach of children. Failure to use caution may cause serious injury or illness.

Continued on next page

Storage : Material is normally stored in closed tanks at 250-375F. Keep away from sources of ignition and incompatible materials. Use non-sparking tools and explosion proof equipment. Ground lines, containers, and other equipment used during product transfer to reduce the possibility of a static induced spark. Use good personal hygiene practices. After handling this product, wash hands before eating, drinking, smoking or using toilet facilities.

Section 8. Exposure Controls, Personal Protection

Engineering controls : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal protection

Eyes : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Keep away from eyes. Eye contact can be avoided by wearing safety glasses or chemical splash goggles.

Skin : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Keep away from skin. Skin contact can be minimized by wearing protective gloves such as neoprene, nitrile-butadiene rubber, etc. and, where necessary, impervious clothing and boots. Leather goods contaminated with this product should be discarded. A source of clean water should be available in the work area for flushing eyes and skin. Flame Retardant Clothing is recommended.

Respiratory : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workplace exposure limits for product or components are exceeded, NIOSH approved equipment should be worn. Proper respirator selection should be determined by adequately trained personnel, based on the contaminants, the degree of potential exposure and published respiratory protection factors. This equipment should be available for nonroutine and emergency use.

Hands : Chemical-resistant, impervious gloves or gauntlets complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Personal protective equipment (Pictograms) : Consult your Supervisor or S.O.P. for special handling directions.

Personal protection in case of a large spill : Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Component	Exposure limits
Asphalt	**ACGIH TLV (United States, 3/2004). Notes: Substance identified by other sources as a suspected or confirmed human carcinogen. Inhalable fraction. See Appendix C, paragraph A. Inhalable Particulate Mass TLVs (IPM-TLVs) for those materials that are hazardous when deposited anywhere in the respiratory tract. 2000 Adoption. Refers to Appendix A -- Carcinogens.** TWA: 0.5 mg/m³ 8 hour(s). Form: Fume **NIOSH REL (United States, 6/2001). Notes: See Appendix A - NIOSH Potential Occupational Carcinogen** CEIL: 5 mg/m³ 15 minute(s). Form: Fume
Hydrogen Sulfide	**ACGIH TLV (United States, 9/2004).** TWA: 10 ppm 8 hour(s). Form: All forms

Continued on next page

	STEL: 15 ppm 15 minute(s). Form: All forms **NIOSH REL (United States, 6/2001).** CEIL: 10 ppm 10 minute(s). Form: All forms **OSHA PEL Z2 (United States, 6/2002).** CEIL: 20 ppm Form: All forms AMP: 50 ppm 10 minute(s). Form: All forms
Polycyclic Aromatic Hydrocarbons	**OSHA PEL (United States, 6/1993).** TWA: 0.2 mg/m^3 8 hour(s). Form: Benzene soluble **ACGIH TLV (United States, 3/2004).** TWA: 0.2 mg/m^3 8 hour(s). Form: Benzene soluble

Consult local authorities for acceptable exposure limits.

Section 9. Physical and Chemical Properties

Physical state	: Liquid. DARK BROWN TO BLACK LIQUID WITH A STRONG PETROLEUM ODOR AT NORMAL USE TEMPERATURES ABOVE 350F. SEMI-SOLID A 70F.
Color	: BLACK, BROWN
Odor	: Strong Petroleum Odor
Boiling point	: 371.1 to 593.4°C (700 to 1100.1°F)
Melting/freezing point	: >57.2°C (135°F)
Specific gravity	: 1 to 1.2 (Water = 1)
Vapor pressure	: <0.01 kPa (<0.1 mm Hg) (at 20°C)
Vapor density	: >1.6 (Air = 1)
Solubility	: Insoluble in cold water.

Section 10. Stability and Reactivity Data

Stability and reactivity	: The product is stable.
Incompatibility with various substances	: Reactive with oxidizing agents, acids, alkalis, halogens
Hazardous decomposition products	: Combustion may produce carbon monoxide, carbon dioxide and reactive hydrocarbons (aldehydes, aromatics, etc.) compounds, nitrogen oxides, sulfur oxides, particulate matter, and hydrogen sulfide.
Hazardous polymerization	: Will not occur.

Section 11. Toxicological Information

Toxicity data

ASPHALTcontains polycyclic aromatic hydrocarbons, which are potentially carcinogenic. Skin painting studies in laboratory animals with petroleum residua have produced severe irritation and systemic toxicity, including cancers. The residuum contains polycyclic aromatic compounds which have been shown to cause anemia, disorders of the liver, bone marrow and lymphoid tissues in rats following dermal application. While rodent studies are exquisitely sensitive to chemical carcinogens of this type, there is no clear evidence that these chemicals are carcinogenic to man. As a minimum, it has been demonstrated in early studies that application of these materials to human skin produces a fairly rapid local reaction and inflammation. Animal inhalation studies have not yielded sufficient evidence of asphalt-induced lung cancer, and only limited investigations of the metabolic changes caused by petroleum asphalt fumes have been done. Fumes from heated petroleum roofing asphalt did not produce cancers in the lungs of rats and guinea pigs inhaling such fumes for two years. Similarly, a roofing petroleum asphalt proved noncarcinogenic to the skin of mice and rabbits.

HYDROGEN SULFIDE can affect the body if it is inhaled or if it comes into contact with the eyes, skin, nose or throat. It can also affect the body if it is swallowed. It is colorless and has the odor of rotten eggs. However, its odor cannot be used as an indication of its presence since one of the first effects of H2S exposure is the loss of the sense of smell. Inhalation of high concentrations of hydrogen sulfide, 1000 to 2000 ppm, may cause coma after a single breath and may be rapidly fatal, convulsions can also occur. Hydrogen sulfide gas is a rapidly acting systemic poison which causes respiratory paralysis with consequent asphyxia at high concentrations (500 to 1000 ppm). A case of polyneuritis and encephalopathy from one day's exposure to a concentration insufficient to cause loss of consciousness has been reported. It irritates the eyes and respiratory tract at lower concentrations (50 to 500 ppm). Pulmonary edema and bronchial pneumonia may follow prolonged exposure at concentrations exceeding 250 ppm. Exposure to concentrations of hydrogen sulfide around 50 ppm for one hour may produce rhinitis, pharyngitis, bronchitis, pneumonitis, acute conjunctivitis with pain, lacrimation and photophobia, in severe form this may progress to keratoconjunctivitis and vesiculation of the corneal epithelium. In lower concentrations, hydrogen sulfide may cause headache, fatigue, irritability, insomnia, and gastrointestinal disturbances, as well as central nervous system disturbances, causing excitation and dizziness. Repeated exposure to hydrogen sulfide results in increased susceptibility so that eye irritation, cough and systemic effects may result from concentrations previously tolerated without any effect.

Continued on next page

Chronic effects on humans : **CARCINOGENIC EFFECTS**: Classified + (Possible.) by NIOSH [Asphalt]. Classified A4 (Not classifiable for human or animal.) by ACGIH, 3 (Not classifiable for human.) by IARC [Asphalt]. Classified 3 (Not classifiable for human.) by IARC [Asphalt (oxidized)]. Classified 2 (Suspected for human.) by European Union [Distillates, petroleum residues vacuum]. Classified 2B (Possible for human.) by IARC [Naphthalene]. Classified A4 (Not classifiable for human or animal.) by ACGIH [Naphthalene]. Classified A2 (Suspected for human.) by ACGIH, 2A (Probable for human.) by IARC, 2 (Reasonably Anticipated To Be Human Carcinogens.) by NTP [Polycyclic Aromatic Hydrocarbons].
Causes damage to the following organs: upper respiratory tract, skin, eye, lens or cornea.

Other toxic effects on humans : No specific information is available in our database regarding the other toxic effects of this material for humans.

Specific effects

Carcinogenic effects : Contains material which may cause cancer based on animal data. Risk of cancer depends on duration and level of exposure.

Target organs : Causes damage to the following organs: upper respiratory tract, skin, eyes, eye, lens or cornea.

Section 12. Ecological Information

Ecotoxicity data

Ingredient name	Species	Period	Result
Polycyclic Aromatic Hydrocarbons	Daphnia pulex (LC50)	96 hour(s)	0.005 mg/l

BOD and COD : N/A

Biodegradable/OECD : N/A

Mobility : N/A

Products of degradation : N/A

Toxicity of the products of biodegradation : N/A

Section 13. Disposal Considerations

Waste disposal : The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Consult your local or regional authorities.

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional information
DOT Classification	UN 3257	Elevated Temperature Liquid, n.o.s. Not regulated by DOT if at room temperature and in containers of 119 gallons of less.	9	III		**Limited quantity** Yes. **Packaging instruction** Passenger Aircraft Quantity limitation: Forbidden.

Continued on next page

						Cargo Aircraft Quantity limitation: Forbidden. **Special provisions** **IB1, T3, TP3, TP29**
TDG Classification	Not available.	Not available.	Not available	Not available.		Not available.

Section 15. Regulatory Information

United States

U.S. Federal regulations : TSCA 8(b) inventory: Asphalt

SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: Asphalt
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Asphalt: Fire hazard, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: No products were found.
Clean air act (CAA) 112 accidental release prevention: No products were found.
Clean air act (CAA) 112 regulated flammable substances: No products were found.
Clean air act (CAA) 112 regulated toxic substances: No products were found.

State regulations : Connecticut carcinogen reporting list.: Benzene
Connecticut hazardous material survey.: Benzene; Toluene; Naphthalene
Illinois toxic substances disclosure to employee act: Benzene; Toluene; Naphthalene
Illinois chemical safety act: Distillates, petroleum residues vacuum
Rhode Island RTK hazardous substances: Distillates, petroleum residues vacuum; Benzene; Toluene; Naphthalene
Pennsylvania RTK: Asphalt (generic environmental hazard)
Florida: Distillates, petroleum residues vacuum; Benzene; Toluene; Naphthalene
Minnesota: Asphalt; Distillates, petroleum residues vacuum
Michigan critical material: Benzene; Toluene
Massachusetts RTK: Asphalt
New Jersey: Asphalt
Louisiana RTK reporting list: Distillates, petroleum residues vacuum
WARNING: This product contains chemical(s) known to the state of California to cause cancer, birth defects or other reproductive harm: Benzene; Toluene; Naphthalene; Polycyclic Aromatic Hydrocarbons
WARNING: This product contains chemical(s) known to the state of California to cause reproductive harm (male): Benzene
California prop. 65 (no significant risk level): Benzene; Polycyclic Aromatic Hydrocarbons
California prop. 65 (acceptable daily intake level): Benzene; Toluene
WARNING: This product contains chemical(s) known to the state of California to cause birth defects or other reproductive harm.: Benzene; Toluene
WARNING: This product contains chemical(s) known to the state of California to cause cancer.: Benzene; Naphthalene; Polycyclic Aromatic Hydrocarbons

Canada

WHMIS (Canada) : Not controlled under WHMIS (Canada)
CEPA DSL: Asphalt

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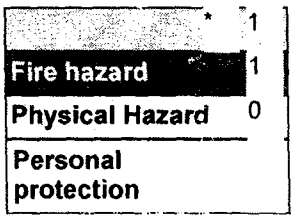
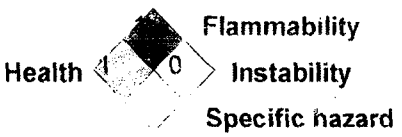
Section 16. Other Information

Label Requirements : CAUSES SKIN IRRITATION.
CAUSES DAMAGE TO THE FOLLOWING ORGANS: RESPIRATORY TRACT, SKIN, EYE, LENS OR CORNEA.
POSSIBLE CANCER HAZARD
CONTAINS MATERIAL WHICH MAY CAUSE CANCER BASED ON ANIMAL DATA.

Hazardous Material Information System (U.S.A.) :



National Fire Protection Association (U.S.A.) :



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Version : **1**

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Definitions of Material Safety Data Sheet Terminology

GOVERNMENT AGENCIES AND PRIVATE ASSOCIATIONS

ACGIH - American Conference of Governmental Industrial Hygienists, (private association)
DOT - United States Department of Transportation
EPA - United States Environmental Protection Agency
IARC - International Agency for Research on Cancer, (private association)
NFPA - National Fire Protection Association, (private association)
MSHA - Mine Safety and Health Administration, U.S. Department of Labor
NIOSH - National Institute of Occupational Safety and Health, U.S. Department of Health and Human Services
NTP - National Toxicology Program, (private association)
OSHA - Occupational Safety and Health Administration, U.S. Department of Labor
WHMIS - Workplace Hazardous Material Information System
CSA - Canadian Standards Association

HAZARD AND EXPOSURE INFORMATION

Continued on next page

MM

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

Waste Profile Re-Certification Form

CES Waste Approval #: **HOU-2215**

Customer: **BW Services**

Waste Generator: **BW Services**

Waste Stream Name: **Unused asphalt**

Expiration Date: **5/25/2009**

As per our waste analysis plan, CES Environmental Services, Inc. requires recertification of all approved waste profiles on an annual basis. The purpose of this form is to confirm that no changes have been made in the generation process of the aforementioned waste stream and that the waste stream remains classified as non-hazardous as per 40 CFR 261.3.

Generator hereby certifies that the components in the aforementioned waste stream and the process generating this waste stream remain the same as when issued the aforementioned CES Waste Approval Number: (Check Appropriate Box)

☑ No changes, please recertify.

☐ Please send new profile as waste stream has changed.

BW Services
Customer Name

CKeith
Signature

Admin Asst
Company / Title

July 6 2009
Date

☑ Analysis is NOT required for recertification.

☐ The following analysis is required for recertification. Please sumbit results of the following tests.

- TCLP Metals
- TCLP Volatiles
- TCLP Semi-volatiles
- Reactivity
- Corrosivity
- Ignitability

BW Services
2216

2216

EPAHO103001469

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/25/2007**

Dear **Brandon Dougles**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2216

Generator: BW Services
Address: 1100 Wayne Drive
Angleton, TX 77515

Waste Information

Name of Waste: Unused Magnesium Chloride
TCEQ Waste Code #: 00062191
Container Type:
Detailed Description of Process Generating Waste:
Unused magnesium chloride cleaned from rail cars
Color: white **Odor:** odorless **pH:** na
Physical State:
Incompatibilities: mildly corrosive to metals
Safety Related Data/Special Handling:
level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DO

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	BW Services		
Address:	1100 Wayne Drive		
City, State, Zip:	Angelton, TX 77515		
Contact:	Brandon	Title:	Manager
Phone No:	979-848-8800	Fax No:	979-848-9990
24/hr Phone:	979-848-8800		
U.S. EPA I.D. No:	TXD086467800		
State I.D.	30207	SIC Code:	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		Title:	
Phone No:		Fax No:	

SECTION 3: General Description of the Waste

Name of Waste: Unused Magnesium Chloride
Detailed Description of Process Generating Waste: Unused magnesium Chloride cleaned from rail cars.

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: White Odor: odorless

Specific Gravity (water=1): 1-1.3 Density: 9.5 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 G

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 1 Other:
Texas State Waste Code No: 00062191
Proper U.S. DOT Shipping Name: Non-RCRA, Non-DOT Regulated Waste Liquids
Class: Na UN/NA: Na PG: Na RQ: Na

Flash Point ≥200	pH NA	Reactive Sulfides 0mg/l	Reactive Cyanides 0mg/l	Solids 100%
Oil&Grease Namg/l	TOC Namg/l	Zinc Namg/l	Copper Namg/l	Nickel Namg/l

MAY-05-2004 01:36 From: CES Environmental Svcs. To:713 676 1676 P.2/9
MAY-29-2007 11:30 7137488664 P.02

EPAHO103001471

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Unused Magnesium Chloride Brine	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS Sheets

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Mildly Corrosive to Metals

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Brandon White **Date:** 05/04/07

Printed Name/Title: Brandon White

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	**Process Facility Information:**
Compliance Officer: Robert Phanga Date: 6-1-07 Approved Rejected Approval Number: 2216	$55/hr $67/hr Trans 1L

MAY-05-2004 01:36 From: CES Environmental Svcs. To:713 676 1676 P.3/9
MAY-29-2007 11:30 7137488664 P.03

EPAHO103001472

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

MAY-05-2004 01:36 From: CES Environmental Svcs. To:713 676 1676 P.4/9
MAY-29-2007 11:30 7137488664 P.04

EPAHO103001473

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

MAY-05-2004 01:36 From: CES Environmental Svcs. To:713 676 1676 P.5/9
MAY-29-2007 11:30 7137488664 P.05

EPAHO103001474

RTLX 219
RELX 2492

REILLY WENDOVER

MATERIAL SAFETY DATA SHEET

COMPANY/PLANT	ISSUE DATE	ID NUMBER
REILLY WENDOVER Box 580 Wendover, Utah 84083	4/27/88	BBC-3

TRADE NAME (Common Name or Synonym)	EMERGENCY PHONE NUMBER
Dus-Top,™ Dus-Top II,™ Dus-Top III,™	(801) 359-0681 or (317) 247-8141

CHEMICAL NAME	FORMULA	DOT ID NUMBER
Magnesium Chloride Brine	$MGC1_2$	NA

I. INGREDIENTS

NOTE: Dust from this product is considered "nuisance" dust. Average grade of commerce >98%

Ingredient	%	CAS #	In-House Recommended Occupational Exposure Limits*
Magnesium Chloride	28-34	7778-80-5	Not Established
Calcium Chloride (in DUS-TOP III™ only)	4-5	10043-52-4	

*No federal agency limits established.

II. PHYSICAL & REACTIVITY DATA

Melting Point: -13°F	Boiling Point: 244.6°	Vapor Pressure (mm/Hg): NA	Acidity/ Alkalinity: pH = 7

Specific Gravity (H_2O = 1): 1.30 @68°F Solubility in water: Miscible

Appearance and Odor: White, odorless liquid

Stability: Stable Hazardous Polymerization: Will Not Occur

Incompatibility/Conditions to Avoid: Mildly corrosive to metals.

Hazardous Decomposition Products: If evaporated to dryness and heated to minimum of 500°C, hydrogen chloride (HC1) vapors could be liberated

The information in this MSDS was obtained from sources which we believe are reliable. However the information is provided with out any representation or warranty express or implied regarding the accuracy or correctness.

The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.

EPAHO103001475

2217 Enterprise — Morgan's
2217

EPAHO103001476

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/25/2007**

Dear **Mike Tomerlin**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2217

Generator: Enterprise Products Operating, L.P. (Morgan Point Facility)
Address: 1200 North Broadway
LaPorte, TX 77571

Waste Information

Name of Waste: Used oil
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Used oil from machine operations
Color: dark **Odor:** hydrocarbon **pH:** neutral
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DC

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company:	Enterprise Products Operating, L.P. (Morgans Point Facilty)		
Address:	1200 North Broadway		
City, State, Zip:	Laporte, TX 77571-3031		
Contact:	Stephen J. Craig	**Title:**	Environmental Scientist
Phone No:	281-385-4396	**Fax No:**	281-385-4532
24/hr Phone:	713-320-4591		
U.S. EPA I.D. No:	TXD008084238		
State I.D.	30282	**SIC Code:**	na

SECTION 2: Billing Information – ☐ Same as Above

Company:	Enterprise Products Operating		
Address:	PO Box 573		
City, State, Zip:	Mont Belvieu, TX 77580-0573		
Contact:	Accounts Payable	**Title:**	
Phone No:	281-385-4200	**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Used Oil
Detailed Description of Process Generating Waste: Used oil from machine operations

Physical State: ☒ **Liquid** ☒ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: dark **Odor:** hydrocarbon

Specific Gravity (water=1): 1-1.2 **Density:** 8.3-8.6 lbs/gal

Layers: ☐ **Single-phase** ☒ **Multi-phase**

Container Type: ☐ **Drum** ☐ **Tote** ☒ **Truck** ☐ **Other (explain)**
Container Size: ____ ____ 5000 gal ____

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 2 **Other:** ____
Texas State Waste Code No: Recyclable Material
Proper U.S. DOT Shipping Name: Non RCRA Non DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point >140	**pH** neutral	**Reactive Sulfides** NAmg/l	**Reactive Cyanides** NAmg/l	**Solids** 0-25%
Oil&Grease >1000mg/l	**TOC** >100mg/l	**Zinc** NAmg/l	**Copper** NAmg/l	**Nickel** NAmg/l

EPAHO103001478

SECTION 4: Physical and Chemical Data

COMPONENTS/TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Used oil	0-20	%
Solids	0-25	%
Water	0-65	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
~~none~~ Chlor-D-Test upon arrival

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** May 29, 2007

Printed Name/Title: Stephen J. Craig

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information:
Compliance Officer: [signature]	$.25/gallon REC
Date: 6-1-07 Approved Rejected	$70/hour
Approval Number: 2217	

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001480

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001481

2218

GATX
#2218

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/28/2007**

Dear **Ricardo Salias**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2218

Generator: GATX (Hearne)
Address: 1401 W. Brown St.
Hearne, TX 77859

Waste Information

Name of Waste: Recyclable alcohols
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Removal of heels from railcars prior to cleaning
Color: clear to brown **Odor:** sweet **pH:** 3-11
Physical State:
Incompatibilities: none known
Safety Related Data/Special Handling:
Standard PPE required

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company:	GATX		
Address:	PO Box 969		
City, State, Zip:	Hearne, TX 77859		
Contact:	Ricardo Salias	**Title:**	Manager
Phone No:	979-279-7053	**Fax No:**	979-279-5664
24/hr Phone:	979-279-7053		
U.S. EPA I.D. No:	N/A		
State I.D.	N/A	**SIC Code:**	N/A

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Recyclable Alcohols
Detailed Description of Process Generating Waste: Removal of heels from railcars prior to cleaning

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: Clear to Brown **Odor:** Sweet

Specific Gravity (water=1): 1 **Density:** 8.34 lbs/gal

Layers: ☒ **Single-phase** ☐ **Multi-phase**

Container Type:	☒	**Drum**	☐ **Tote**	☐	**Truck**	☐	**Other (explain)**
Container Size:		55					

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 5 **Other:**
Texas State Waste Code No: Recycle
Proper U.S. DOT Shipping Name: Flammable liquids, n.o.s. (methanol, ethanol),
Class: 3 **UN/NA:** UN1993 **PG:** PG II **RQ:** N/A

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
100-130	3-11	0mg/l	0mg/l	0%

Oil&Grease	TOC	Zinc	Copper	Nickel
N/Amg/l	N/Amg/l	N/Amg/l	N/Amg/l	N/Amg/l

EPAHO103001484

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Ethanol	0-100	%
Methanol	0-100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE Required

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None Known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: N/A **Date:** June 4, 2007

Printed Name/Title: N/A-per Matt Bowman

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 6-4-07 Approved Rejected

Approval Number: 2218

Additional Information: Check for blending into CES Fuels. $75 ldm

EPAHO103001485

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001486

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001487

2219 Gulf Coast Oil & Gas
2219

EPAHO103001488

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/29/2007**

Dear **Gaylon Hale**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2219

Generator: Gulf Coast Oil and Gas
Address: 1204 Hays
Houston, TX 77009

Waste Information

Name of Waste: Non-hazardous TPH contaminated soil
TCEQ Waste Code #: CESQ3191
Container Type:
Detailed Description of Process Generating Waste:
TPH contaminated soil from a hydraulic oil spill from a forklift
Color: black to brown **Odor:** slight oil **pH:** na
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com 2219
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

DB

SECTION 1: Generator Information

Company:	Gulf Coast Oil and Gas		
Address:	1204 Haya		
City, State, Zip:	Houston, TX 77009		
Contact:	Gaylon Hale	Title:	President
Phone No:	713-236-1158	Fax No:	713-236-8594
24/hr Phone:	713-236-1158		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	SIC Code:	Na

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		Title:	
Phone No:		Fax No:	

SECTION 3: General Description of the Waste

Name of Waste: Non-Hazardous TPH Contaminated Soil
Detailed Description of Process Generating Waste: TPH contaminated soil from a hydrolic oil spill from a forklift.

Physical State: ☐ Liquid ☒ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: Black to Brown Odor: Slight Oil

Specific Gravity (water=1): 1-1.5 Density: 8-10 lbs/gal

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55&30 ____ ____ ____

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 1-9 Other: ____
Texas State Waste Code No: CESQ3191
Proper U.S. DOT Shipping Name: Non-RCRA, Non-DOT Regulated Waste Solids
Class: Na UN/NA: Na PG: Na RQ: Na

Flash Point >160	pH Na	Reactive Sulfides 0mg/l	Reactive Cyanides 0mg/l	Solids 90-100%
Oil&Grease >1500mg/l	TOC Namg/l	Zinc Namg/l	Copper Namg/l	Nickel Namg/l

EPAHO103001490

SECTION 4: Physical and Chemical Data

The waste consists of the following materials	Ranges are acceptable	or %
Soil/Grass/Rock	98-99	%
Hydrolic Oil	1-2	%
Water	0-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
TCLP Analysis

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ____
TCLP Volatiles: X -Benzene was performed- No other volatiles could be present or are stored on site
TCLP Semi-Volatiles: X -No semi-volatiles could be present or are stored on site-
Reactivity: ____
Corrosivity: ____
Ignitability:

TOX- No hazardous halogenated continents could be present or are stored on site.

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Gaylon B. Hale **Date:** 06/01/07

Printed Name/Title: Gaylon Hale

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information:
Compliance Officer: Barbara Blanchard	$45/dm 55 gal
Date: 6-4-07 (Approved) Rejected	$35/dm 30 gal 15
Approval Number: 2219	Trans $250 P/U

EPAHO103001491

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001492

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 6.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001493

LABORATORY TEST RESULTS

Job ID : 89884

Date 5/17/2007

Client Name: Gulf Coast Oil & Gas Industries, Inc. Attn: Gaylon Hale

Project ID: Clean Up/Leak Soil Sample #01/Gulf Coast Oil & Gas

Client Sample ID: #01 Soil Sample / Leak
Date Collected: 05/08/07
Time Collected: 14:15
Other Information:

Job Sample ID: 89884.01
Sample Matrix Soil

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 1010	Ignitability (Flash Point)								
	Ignitability	>150	°F	1				05/14/07 10:00	KS
SW-846 6010C	TCLP Metals								
	Arsenic	BRL	mg/L	1	0.1	5.0		05/11/07 16:14	SC
	Barium	0.643	mg/L	1	0.1	100.0		05/11/07 16:14	SC
	Cadmium	0.124	mg/L	1	0.1	1.0		05/11/07 16:14	SC
	Chromium	BRL	mg/L	1	0.1	5.0		05/11/07 16:14	SC
	Lead	BRL	mg/L	1	0.1	5.0		05/11/07 16:14	SC
	Selenium	BRL	mg/L	1	0.500	1.0		05/11/07 16:14	SC
	Silver	BRL	mg/L	1	0.1	5.0		05/11/07 16:14	SC
SW-846 7.3	Reactivity								
	Reactive Cyanide	BRL	mg/Kg	1	25			05/09/07 14:30	KS
SW-846 7.3	Reactivity								
	Reactive Sulfide	BRL	mg/Kg	1	25			05/09/07 15:00	KS
SW-846 7470A	TCLP Metals, Mercury								
	Mercury	BRL	mg/L	1	0.002	0.2		05/11/07 12:20	RB
SW-846 8021B	Purgeable Aromatics								
	Benzene	BRL	mg/Kg	1	0.01			05/10/07 01:21	SS
	Toluene	BRL	mg/Kg	1	0.01			05/10/07 01:21	SS
	Ethylbenzene	BRL	mg/Kg	1	0.01			05/10/07 01:21	SS
	Xylenes	BRL	mg/Kg	1	0.03			05/10/07 01:21	SS
	Trifluorotoluene(surr)	104	%	1	75-125			05/10/07 01:21	SS
SW-846 9020B	Total Organic Halogen								
	TOX	7.64	mg/Kg	1	1			05/11/07 11:11	SS
SW-846 9045D	Corrosivity, pH								
	pH	7.27	s.u.	1				05/10/07 15:00	KS
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12	BRL	mg/Kg	1	11.4			05/10/07 01:25	HK
	>C12-C28	653	mg/Kg	1	13.3			05/10/07 01:25	HK
	>C28-C35	1255	mg/Kg	1	26.8			05/10/07 01:25	HK
	Total C6-C35	1908	mg/Kg	1				05/10/07 01:25	HK
	Chlorooctadecane(surr)	N/A	%	1	50-149		S5	05/10/07 01:25	HK

EPAHO103001494

QUALITY CONTROL CERTIFICATE

Job ID : 89884 **Date :** 5/17/2007

Analysis : Reactivity **Method :** SW-846 7.3 **Reporting Units :** mg/Kg

QC Batch ID : Qb07050939 **Created Date :** 05/09/07 **Created By :** Ksudha

Samples in This QC Batch : 89884.01

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Reactive Cyanide		BRL	mg/Kg	1	25		

QC Type: Duplicate

QC Sample ID: 89714.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Reactive Cyanide	BRL	BRL	mg/Kg		20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Reactive Cyanide	0.5	0.25	50	0.5	0.26	52	3.92	20	40-120	

Refer to the Definition page for terms.

EPAHO103001495

QUALITY CONTROL CERTIFICATE

Job ID : 89884 **Date :** 5/17/2007

Analysis : Reactivity **Method :** SW-846 7.3 **Reporting Units :** mg/Kg

QC Batch ID : Qb07050940 **Created Date :** 05/09/07 **Created By :** Ksudha

Samples in This QC Batch : 89884.01

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Reactive Sulfide		BRL	mg/Kg	1	25		

QC Type: Duplicate

QC Sample ID: 89714.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Reactive Sulfide	BRL	BRL	mg/Kg		20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Reactive Sulfide	900	860	95.6	900	820	91.1	4.76	20	40-120	

Refer to the Definition page for terms.

EPAHO103001496

QUALITY CONTROL CERTIFICATE

Job ID : 89884 **Date :** 5/17/2007

Analysis : Total Petroleum Hydrocarbons **Method :** TX 1005 **Reporting Units :** mg/Kg

QC Batch ID : Qb07051011 **Created Date :** 05/09/07 **Created By :** Hkhuc

Samples in This QC Batch : 89884.01

Sample Preparation : PB07051004 **Prep Method :** TX 1005 **Prep Date :** 05/09/07 **Prep By :** Hkhuc

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
C6-C12		BRL	mg/Kg	1	11.4		
>C12-C28		BRL	mg/Kg	1	13.3		
>C28-C35		BRL	mg/Kg	1	26.8		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12	500	525	105	500	537	107	2.26	25	70-130	
>C12-C28	500	605	121	500	615	123	1.64	25	70-130	
>C28-C35	500	549	110	500	608	122	10.2	25	70-130	

QC Type: MS and MSD
QC Sample ID: 89882.02

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
C6-C12	BRL	500	481	96.2	500	500	100	3.87	25	70-130	
>C12-C28	BRL	500	557	111	500	576	115	3.35	25	70-130	
>C28-C35	BRL	500	464	92.8	500	525	105	12.3	25	70-130	

Refer to the Definition page for terms.

EPAHO103001497

QUALITY CONTROL CERTIFICATE

Job ID : 89884 **Date :** 5/17/2007

Analysis : Purgeable Aromatics **Method :** SW-846 8021B **Reporting Units :** mg/Kg

QC Batch ID : Qb07051012 **Created Date :** 05/09/07 **Created By :** Ssrinivasan

Samples in This QC Batch : 89884.01

Sample Preparation : PB07051008 **Prep Method :** SW-846 5035A **Prep Date :** 05/09/07 **Prep By :** Ssrinivasan

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Benzene	71-43-2	BRL	mg/Kg	1	0.01		
Toluene	108-88-3	BRL	mg/Kg	1	0.01		
Ethylbenzene	100-41-4	BRL	mg/Kg	1	0.01		
Xylenes		BRL	mg/Kg	1	0.03		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Benzene	0.1	0.107	107	0.1	0.104	104	2.84	20	80-120	
Toluene	0.1	0.101	101	0.1	0.099	99	2	20	80-120	
Ethylbenzene	0.1	0.107	107	0.1	0.105	105	1.88	20	80-120	
Xylenes	0.300	0.333	111	0.300	0.325	108	2.43	20	80-120	

QC Type: MS and MSD
QC Sample ID: 89882.03

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Benzene	0.004	0.1	0.109	105						75-125	
Toluene	BRL	0.1	0.099	99						75-125	
Ethylbenzene	BRL	0.1	0.102	102						75-125	
Xylenes	BRL	0.300	0.311	104						75-125	

Refer to the Definition page for terms.

EPAHO103001498

QUALITY CONTROL CERTIFICATE

Job ID : 89884 **Date :** 5/17/2007

Analysis : TCLP Metals **Method :** SW-846 6010C **Reporting Units :** mg/L

QC Batch ID : Qb07051105 **Created Date :** 05/11/07 **Created By :** Scuello

Samples in This QC Batch : 89884.01

Digestion :	PB07051101	**Prep Method :** SW-846 3010A		**Prep Date :**	05/11/07	**Prep By :**	Scuello
TCLP Prep :	PB07050921	**Prep Method :** SW-846 1311		**Prep Date :**	05/09/07	**Prep By :**	Ksudha

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Arsenic	7440-38-2	BRL	mg/L	1	0.1		
Barium	7440-39-3	BRL	mg/L	1	0.1		
Cadmium	7440-43-9	BRL	mg/L	1	0.1		
Chromium	7440-47-3	BRL	mg/L	1	0.1		
Lead	7439-92-1	BRL	mg/L	1	0.1		
Selenium	7782-49-2	BRL	mg/L	1	0.5		
Silver	7440-22-4	BRL	mg/L	1	0.1		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic	1	1.07	107	1	1.06	106	0.93	20	80-120	
Barium	1	0.879	87.9	1	0.878	87.8	0.11	20	80-120	
Cadmium	1	0.973	97.3	1	0.972	97.2	0.10	20	80-120	
Chromium	1	0.922	92.2	1	0.921	92.1	0.10	20	80-120	
Lead	1	0.915	91.5	1	0.914	91.4	0.10	20	80-120	
Selenium	1	1.09	109	1	1.08	108	0.92	20	80-120	
Silver	1	1.00	100	1	0.988	98.8	1.21	20	80-120	

QC Type: MS and MSD
QC Sample ID: 89027.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	0.193	2	2.31	106	2	2.42	111	4.65	30	45-138	
Barium	2.48	2	3.90	71	2	4.12	82	5.49	25	39-135	
Cadmium	BRL	2	1.85	92.5	2	2.03	102	9.28	25	56-125	
Chromium	BRL	2	1.77	88.5	2	1.92	96	8.13	25	52-125	
Lead	0.260	2	2.08	91	2	2.14	94	2.84	25	55-125	
Selenium	BRL	2	2.17	109	2	2.29	115	5.38	25	18-137	
Silver	BRL	2	1.85	92.5	2	2.06	103	10.7	25	26-148	

Refer to the Definition page for terms.

EPAHO103001499

QUALITY CONTROL CERTIFICATE

Job ID : 89884 **Date :** 5/17/2007

Analysis : TCLP Metals, Mercury **Method :** SW-846 7470A **Reporting Units :** mg/L

QC Batch ID : Qb07051117 **Created Date :** 05/11/07 **Created By :** Rbairamadgi

Samples in This QC Batch : 89884.01

Digestion :	PB07051110	**Prep Method :**	SW-846 7470A	**Prep Date :**	05/11/07	**Prep By :**	Rbairamadgi
TCLP Prep :	PB07050921	**Prep Method :**	SW-846 1311	**Prep Date :**	05/09/07	**Prep By :**	Ksudha

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Mercury	7439-97-6	BRL	mg/L	1	0.002		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Mercury	0.005	0.0052	104						71-143	

QC Type: MS and MSD
QC Sample ID: 89909.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Mercury	BRL	0.005	0.0051	102	0.005	0.0051	102	0	35	61-175	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 89884 **Date :** 5/17/2007

Analysis : Ignitability (Flash Point) **Method :** SW-846 1010 **Reporting Units :** °F

QC Batch ID : Qb07051434 **Created Date :** 05/14/07 **Created By :** Ksudha

Samples in This QC Batch : 89884.01

QC Type: Duplicate

QC Sample ID: 89884.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Ignitability	>150	>150	°F		20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Ignitability	83	85	102	83	84	101	1.18	20	75-125	

Refer to the Definition page for terms.

EPAHO103001501

QUALITY CONTROL CERTIFICATE

Job ID : 89884 **Date :** 5/17/2007

Analysis : Total Organic Halogen **Method :** SW-846 9020B **Reporting Units :** mg/Kg

QC Batch ID : Qb07051607 **Created Date :** 05/11/07 **Created By :** Ssrinivasan

Samples in This QC Batch : 89884.01

Sample Preparation : PB07051604 **Prep Method :** SW-846 9020B **Prep Date :** 05/11/07 **Prep By :** Ssrinivasan

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
TOX		BRL	mg/Kg	1	1		

QC Type: Duplicate

QC Sample ID: 89884.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
TOX	8.81	7.64	mg/Kg	14.2	25		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
TOX	70	60.53	86.5	70	67.77	96.8	11.3	30	70-130	

Refer to the Definition page for terms.

EPAHO103001502

QUALITY CONTROL CERTIFICATE

Job ID : 89884 **Date :** 5/17/2007

Analysis : Corrosivity, pH **Method :** SW-846 9045D **Reporting Units :** s.u.

QC Batch ID : Qb07051612 **Created Date :** 05/10/07 **Created By :** Ksudha

Samples in This QC Batch : 89884.01

QC Type: Duplicate

QC Sample ID: 89884.01

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
pH	7.28	7.27	s.u.	0.13	20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
pH	4	3.98	99.5						90-110	

Refer to the Definition page for terms.

EPAHO103001503

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

Job ID : 89884

Date: 5/17/2007

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight		

Qualifier Definition

S5	Target compounds caused elevation of baseline. Surrogate not calculated

EPAHO103001504

A & B Labs

Chain of Custody

Page _____ of _____

10100 East Fwy. (I-10), Ste. 100
Houston, TX 77029
713-453-6060
713-453-6091 Fax
ablabs.com

A&B JOB ID 89884

5. Project # Cleanup/Leak Soil Sample #01

1. REPORT TO:
Company: Gulf Coast oil & gas
Address: 1204 Hays
Houston, TX 77009
Contact: Gaylon Hale
Phone: 713-236-1158
Fax: ❑ 713-236-8594
E-mail: ❑

2. INVOICE TO:
Company: Same
Address:
Contact:
Phone:
Fax: ❑
E-mail: ❑

3. **PO#**

4. **Turnaround Time (Business Days)**
❑ Same Day* ❑ Need by
❑ 1 Day*
❑ 2 Days*
❑ 3 Days*
☒ 7 Days * Surcharge applies

6. Project Name / Location
Gulf Coast oil & gas

7. Special Instructions (PLEASE PRINT)
❑ TRRP Limits only ❑ TRRP Rpt. Package ❑ See Attached

8. Sampler's Name & Company (PLEASE PRINT) Sampler's Signature & Date
(Nader Salim & Gaylon Hale) (05-08-07)

LAB USE ONLY	Item	9. Sample ID and Description	10. Sampling Date	Time	11. Comp.	Grab	12. Matrix Water	Soil	Sludge	Oil	Air	Other	13. No. of Containers	14. Containers*	15. Preservatives**	16. Analyses/Methods TCLP(S) - TPH - BTEX	RCI - TOX	17. REMARKS
01	1	#01 Soil Sample/Leak	05-08-2007	2:15pm				X						X	X			
	2																	
	3																	
	4																	
	5																	
	6																	
	7																	
	8																	
	9																	
	10																	

	18. RELINQUISHED BY	DATE	TIME	19. RECEIVED BY	DATE	TIME
1	William Dent	5/9/07	0:39	Lemon L. Sobek	5/9/07	10:25
2	Lemon L. Sobek	5/9/07	1250	Room Same	5/9/07	12:50
3						

20. KNOWN HAZARDS / COMMENTS

*Containers. VOA - 40 ml vial 4 oz/8 oz - glass wide mouth A/G - Amber/Glass 1 Liter P/O - Plastic/other _____

**Preservatives: C - Cool H - HCl N - HNO_3 S - H_2SO_4 OH - NaOH T - $Na_2S_2O_3$ X - Other _____

METHOD OF SHIPMENT

BILL OF LADING / TRACKING #

LAB USE ONLY SAMPLING _____ RENTAL _____ P/U _____

A&B cannot accept verbal changes
Please FAX written changes to 713-453-6091
Samples will be disposed of after 30 days
A & B reserves the right to return samples

EPAHO1030015O5

Sample Condition Checklist

Date : **05/09/07**

A&B JobID : **89884**	Date Received : **05/09/2007**	Time Received : **12:50 PM**
Client Name : **Gulf Coast Oil & Gas Industries, Inc.**		
Temperature : **20°C**	Sample pH : **N/A**	

	Check Points	Yes	No
1.	**Cooler seal present and signed.**	X	
2.	**Sample(s) in a cooler.**	X	
3.	**If yes, ice in cooler.**		X
4.	**Sample(s) received with chain-of-custody.**	X	
5.	**C-O-C signed and dated.**	X	
6.	**Sample(s) received with signed sample custody seal.**		X
7.	**Sample containers arrived intact. (If no comment).**	X	
8.	**Matrix :** **Water** ☐ **Soil** ☑ **Liquid** ☐ **Sludge** ☐ **Solid** ☐ **Cassette** ☐ **Tube** ☐ **Bulk** ☐ **Badge** ☐ **Food** ☐ **Other** ☐		
9.	**Sample were received in appropriate container(s).**	X	
10.	**All samples were logged or labeled.**	X	
11.	**Sample ID labels match C-O-C ID's**	X	
12.	**Bottle count on C-O-C matches bottles found.**	X	
13.	**Sample volume is sufficient for analyses requested.**	X	
14.	**Samples were received within the hold time.**	X	
15.	**VOA vials completely filled.**	N/A	
16.	**Sample accepted.**	X	

Comments : Include actions taken to resolve discrepancies/problem:

Received by : Rgamez

Check in by/date : Rgamez / 5/9/2007

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Shell Global 2220
#2220

EPAHO103001507

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/28/2007**

Dear **Juan Mendez**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2220

Generator: Shell Global
Address: 780 Clinton Drive
Galena Park, TX 77547

Waste Information

Name of Waste: Base oil with dye
TCEQ Waste Code #: n/a
Container Type:
Detailed Description of Process Generating Waste:
Line flush base oil w/purple dye
Color: dark brown / purple **Odor:** hydrocarbon **pH:** 7-11
Physical State:
Incompatibilities: Oxidizers
Safety Related Data/Special Handling:
Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

Joy

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 39048
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company:	Shell Lubricants		
Address:	780 Clinton Drive (P.O. Box 4427, Houston, TX 77210)		
City, State, Zip:	Galena Park, TX 77547		
Contact:	Brenda Clark, P.E., DEE, CHMM, REM	**Title:**	Regional & Environmental Engineer
Phone No:	713-546-6923	**Fax No:**	713-546-8505
24/hr Phone:	713-546-8505		
U.S. EPA I.D. No:	N/A		
State I.D.	39781	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Base Oil with Dye
Detailed Description of Process Generating Waste: Line flush Base Oil w/purple dye

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: Dark Brown/Purple **Odor:** Hydrocarbon

Specific Gravity (water=1): .89 **Density:** 7.5 lbs/gal

Layers: ☒ **Single-phase** ☐ **Multi-phase**

Container Type:	☐	**Drum**	☐	**Tote**	☒	**Truck**	☐ **Other (explain)**
Container Size:		6000					

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 3 **Other:** as requested
Texas State Waste Code No: N/A
Proper U.S. DOT Shipping Name: NonRCRA/non DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** N/A

Flash Point >150	**pH** 7-11	**Reactive Sulfides** <20mg/l	**Reactive Cyanides** <20mg/l	**Solids** 0-50%
Oil&Grease N/Amg/l	**TOC** N/Amg/l	**Zinc** N/Amg/l	**Copper** N/Amg/l	**Nickel** N/Amg/l

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SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Unused Line flush base oil	~~100~~ 90-100	%
Purple Dye	0-10	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
____ Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	TCLP Metals are below regulatory limits
TCLP Volatiles:	TCLP Volatiles are below regulatory limits
TCLP Semi-Volatiles:	TCLP Semi-Volatiles are below regulatory limits
Reactivity:	No reactive materials are introduced into the process
Corrosivity:	pH is nuetral
Ignitability:	No ignitable materials are introduced into the process

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: N/A **Date:** June 1, 2007

Printed Name/Title: no signature required

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Flanagan

Date: 6-11-07 Approved Rejected

Approval Number: 2220

Additional Information: Recycle

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

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(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

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Material Safety Data Sheet

24-Hour Emergency Telephone Numbers

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

CES Hydraulic Oil

Product Number(s):

N/A

Company Identification

CES Environmental Services, Inc.
4904 Griggs Road
Houston, TX 77021
Phone: 713-676-1460
Fax: 713-676-1676

SECTION 2 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS	CAS NUMBER	AMOUNT
Non-hazardous additive blend in refined oil	Mixture	100 %weight

SECTION 3 HAZARDS IDENTIFICATION

****

EMERGENCY OVERVIEW

Pale yellow liquid.

****

IMMEDIATE HEALTH EFFECTS

Eye: Not expected to cause prolonged or significant eye irritation.

Skin: Contact with the skin is not expected to cause prolonged or significant irritation. Not expected to be harmful to internal organs if absorbed through the skin. High-Pressure Equipment Information: Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention at once should an accident like this occur. The initial wound at the injection site may not appear to be serious at

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first; but, if left untreated, could result in disfigurement or amputation of the affected part.
Ingestion: Not expected to be harmful if swallowed.
Inhalation: Not expected to be harmful if inhaled. Contains a petroleum-based mineral oil. May cause respiratory irritation or other pulmonary effects following prolonged or repeated inhalation of oil mist at airborne levels above the recommended mineral oil mist exposure limit. Symptoms of respiratory irritation may include coughing and difficulty breathing.

SECTION 4 FIRST AID MEASURES

Eye: No specific first aid measures are required. As a precaution, remove contact lenses, if worn, and flush eyes with water.
Skin: No specific first aid measures are required. As a precaution, remove clothing and shoes if contaminated. To remove the material from skin, use soap and water. Discard contaminated clothing and shoes or thoroughly clean before reuse.
Ingestion: No specific first aid measures are required. Do not induce vomiting. As a precaution, get medical advice.
Inhalation: No specific first aid measures are required. If exposed to excessive levels of material in the air, move the exposed person to fresh air. Get medical attention if coughing or respiratory discomfort occurs.
Note to Physicians: In an accident involving high-pressure equipment, this product may be injected under the skin. Such an accident may result in a small, sometimes bloodless, puncture wound. However, because of its driving force, material injected into a fingertip can be deposited into the palm of the hand. Within 24 hours, there is usually a great deal of swelling, discoloration, and intense throbbing pain. Immediate treatment at a surgical emergency center is recommended.

SECTION 5 FIRE FIGHTING MEASURES

Leaks/ruptures in high pressure system using materials of this type can create a fire hazard when in the vicinity of ignition sources (eg. open flame, pilot lights, sparks, or electric arcs).

FIRE CLASSIFICATION:
OSHA Classification (29 CFR 1910.1200): Not classified by OSHA as flammable or combustible.

NFPA RATINGS: Health: 0 Flammability: 1 Reactivity: 0

FLAMMABLE PROPERTIES:
Flashpoint: (Cleveland Open Cup) 338 °F (170 °C) (Min)
Autoignition: NDA
Flammability (Explosive) Limits (% by volume in air): Lower: NA Upper: NA

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:
Fire Fighting Instructions: This material will burn although it is not easily ignited. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.
Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids,

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liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.
Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.
Reporting: Report spills to local authorities and/or the U.S. Coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

SECTION 7 HANDLING AND STORAGE

Precautionary Measures: DO NOT USE IN HIGH PRESSURE SYSTEMS in the vicinity of flames, sparks and hot surfaces. Use only in well ventilated areas. Keep container closed.
General Handling Information: Avoid contaminating soil or releasing this material into sewage and drainage systems and bodies of water.
Static Hazard: Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary but may not, by themselves, be sufficient. Review all operations which have the potential of generating an accumulation of electrostatic charge and/or a flammable atmosphere (including tank and container filling, splash filling, tank cleaning, sampling, gauging, switch loading, filtering, mixing, agitation, and vacuum truck operations) and use appropriate mitigating procedures. For more information, refer to OSHA Standard 29 CFR 1910.106, 'Flammable and Combustible Liquids', National Fire Protection Association (NFPA 77, 'Recommended Practice on Static Electricity', and/or the American Petroleum Institute (API) Recommended Practice 2003, 'Protection Against Ignitions Arising Out of Static, Lightning, and Stray Currents'.
Container Warnings: Container is not designed to contain pressure. Do not use pressure to empty container or it may rupture with explosive force. Empty containers retain product residue (solid, liquid, and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. They may explode and cause injury or death. Empty containers should be completely drained, properly closed, and promptly returned to a drum reconditioner or disposed of properly.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

GENERAL CONSIDERATIONS:
Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a

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limited time or under certain circumstances.

ENGINEERING CONTROLS:
Use in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT
Eye/Face Protection: No special eye protection is normally required. Where splashing is possible, wear safety glasses with side shields as a good safety practice.
Skin Protection: No special protective clothing is normally required. Where splashing is possible, select protective clothing depending on operations conducted, physical requirements and other substances. Suggested materials for protective gloves include: 4H (PE/EVAL), Nitrile Rubber, Silver Shield, Viton.
Respiratory Protection: No respiratory protection is normally required.
If user operations generate an oil mist, determine if airborne concentrations are below the occupational exposure limit for mineral oil mist. If not, wear an approved respirator that provides adequate protection from the measured concentrations of this material. For air-purifying respirators use a particulate cartridge.
Use a positive pressure air-supplying respirator in circumstances where air-purifying respirators may not provide adequate protection.

Occupational Exposure Limits:

Component	Limit	TWA	STEL	Ceiling	Notation
Non-hazardous additive blend in refined oil	ACGIH_TLV	5 mg/m3	10 mg/m3		
Non-hazardous additive blend in refined oil	OSHA_PEL	5 mg/m3			

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Attention: the data below are typical values and do not constitute a specification.

Appearance and Odor: Pale yellow liquid.
pH: NA
Vapor Pressure: <0.01 mmHg @ 100 °F
Vapor Density (Air = 1): >1
Boiling Point: >600 °F (>315 C)
Solubility: Soluble in hydrocarbon solvents; insoluble in water.
Freezing Point: NA
Melting Point: NA
Specific Gravity: 0.86 - 0.9 @ 15.6 °C / 15.6 °C
Viscosity: 28.8 cSt - 61.2 cSt @ 40 °C (Min)

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Incompatibility With Other Materials: May react with strong oxidizing agents, such as chlorates, nitrates,

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peroxides, etc.
Hazardous Decomposition Products: None known (None expected)
Hazardous Polymerization: Hazardous polymerization will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

IMMEDIATE HEALTH EFFECTS
Eye Irritation: The eye irritation hazard is based on evaluation of data for similar materials or product components.
Skin Irritation: The skin irritation hazard is based on evaluation of data for similar materials or product components.
Skin Sensitization: No product toxicology data available.
Acute Dermal Toxicity: The acute dermal toxicity hazard is based on evaluation of data for similar materials or product components.
Acute Oral Toxicity: The acute oral toxicity hazard is based on evaluation of data for similar materials or product components.
Acute Inhalation Toxicity: The acute inhalation toxicity hazard is based on evaluation of data for similar materials or product components.

ADDITIONAL TOXICOLOGY INFORMATION:
This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydrotreating. None of the oils requires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

SECTION 12 ECOLOGICAL INFORMATION

ECOTOXICITY
The 48 hour(s) EC50 for water flea (Daphnia magna) is >1000 mg/l.
The 96 hour(s) LC50 for rainbow trout (Oncorhynchus mykiss) is >1000 mg/l.
This material is not expected to be harmful to aquatic organisms.

ENVIRONMENTAL FATE
This material is not expected to be readily biodegradable.

SECTION 13 DISPOSAL CONSIDERATIONS

Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

SECTION 14 TRANSPORT INFORMATION

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The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode-specific or quantity-specific shipping requirements.

DOT Shipping Name: NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION UNDER 49 CFR
DOT Hazard Class: NOT APPLICABLE
DOT Identification Number: NOT APPLICABLE
DOT Packing Group: NOT APPLICABLE
Additional Information: NOT HAZARDOUS BY U.S. DOT. ADR/RID HAZARD CLASS NOT APPLICABLE.

SECTION 15 REGULATORY INFORMATION

SARA 311/312 CATEGORIES:

1.	Immediate (Acute) Health Effects:	NO
2.	Delayed (Chronic) Health Effects:	NO
3.	Fire Hazard:	NO
4.	Sudden Release of Pressure Hazard:	NO
5.	Reactivity Hazard:	NO

REGULATORY LISTS SEARCHED:

4_I1=IARC Group 1	15=SARA Section 313
4_I2A=IARC Group 2A	16=CA Proposition 65
4_I2B=IARC Group 2B	17=MA RTK
05=NTP Carcinogen	18=NJ RTK
06=OSHA Carcinogen	19=DOT Marine Pollutant
09=TSCA 12(b)	20=PA RTK

CHEMICAL INVENTORIES:
CANADA: All the components of this material are on the Canadian DSL or have been notified under the New Substance Notification Regulations, but have not yet been published in the Canada Gazette.
EUROPEAN UNION: All the components of this material are in compliance with the EU Seventh Amendment Directive 92/32/EEC.
JAPAN: All the components of this product are on the Existing & New Chemical Substances (ENCS) inventory in Japan, or have an exemption from listing.
KOREA: All the components of this product are on the Existing Chemicals List (ECL) in Korea.
PHILIPPINES: All the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).
UNITED STATES: All of the components of this material are on the Toxic Substances Control Act (TSCA) Chemical Inventory.

NEW JERSEY RTK CLASSIFICATION:
Under the New Jersey Right-to-Know Act L. 1983 Chapter 315 N.J.S.A. 34:5A-1 et. seq., the product is to be identified as follows:

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PETROLEUM OIL (Hydraulic oil)
WHMIS CLASSIFICATION:
This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

SECTION 16 OTHER INFORMATION

NFPA RATINGS:	Health: 0	Flammability: 1	Reactivity: 0
HMIS RATINGS:	Health: 1	Flammability: 1	Reactivity: 0

(0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme, PPE:- Personal Protection Equipment Index recommendation, *- Chronic Effect Indicator). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association (for HMIS ratings).

REVISION STATEMENT: Changes have been made throughout this Material Safety Data Sheet. Please read the entire document.

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value		TWA - Time Weighted Average	
STEL - Short-term Exposure Limit		PEL - Permissible Exposure Limit	
		CAS - Chemical Abstract Service Number	
NDA - No Data Available		NA - Not Applicable	
<= - Less Than or Equal To		>= - Greater Than or Equal To	

Prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and the ANSI MSDS Standard (Z400.1).

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

EPAHO103001519

2221 Hitemco - Lozano
2221

EPAHO102001500

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/28/2007**

Dear **John Winne**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2221

Generator: Hitemco Southwest-Lozano
Address: 6421 Lozano
Houston, TX 77041

Waste Information

Name of Waste: Sand blast grit
TCEQ Waste Code #: CESQ4902
Container Type:
Detailed Description of Process Generating Waste:
Grit blasting of steel components
Color: brown **Odor:** none **pH:** na
Physical State:
Incompatibilities: HF acid
Safety Related Data/Special Handling:
Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Hitemco Southwest		
Address:	6421 Lozano		
City, State, Zip:	Houston, TX 77041		
Contact:	John Winne	**Title:**	Sr. Developmental Engineer
Phone No:	713-466-9655	**Fax No:**	713-466-1762
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Sand Blast Grit
Detailed Description of Process Generating Waste: Grit blasting of steel components

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: brown Odor: none

Specific Gravity (water=1): 1.6 Density: 14 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☒ Tote ☐ Truck ☐ Other (explain)
Container Size: 1 yd

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 1 **Other:**
Texas State Waste Code No: CESQ4902
Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
None	NA	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
<1500mg/l	<1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Sand Blast Grit with metal fines and rust	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Analysis

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
HF Acid

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ____
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ Date: 5/24/07

Printed Name/Title: Jothe Wilcox / Director of Operations

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Naylor

Date: 6-4-07 Approved Rejected

Approval Number: 2221

Additional Information: _____

15

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536
Phone: (281)-476-4534 Fax: (281)-476-4406

CES Environmental Services
4904 Griggs Rd
Houston, TX 77021

Phone (713) 676-1460
Fax: (281) 676-1676

Attn: **Gary Brauckman**

- CERTIFICATE OF RESULTS -

MES Lab#: 5090505
Client Sample ID: Blasting Grit Lozano
Extended ID: Hitemco

Sample Collect Date: 9/8/2005 @ 2:30:00 PM **Sample Type:** Grab
Sample Receipt Date: 9/14/2005 @ 1:35:00 PM

Test Group / Method

TCLP Metals (11) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: DCW Date / Time
Antimony	0.032	1	< 0.032	mg/L	9/15/2005 / 8:39 PM
Arsenic	0.014	5	< 0.014	mg/L	9/15/2005 / 8:39 PM
Barium	0.0005	100	**1.52**	**mg/L**	9/15/2005 / 8:39 PM
Beryllium	0.0005	0.08	**0.0005**	**mg/L**	9/15/2005 / 8:39 PM
Cadmium	0.002	1	< 0.002	mg/L	9/15/2005 / 8:39 PM
Chromium	0.002	5	**0.040**	**mg/L**	9/15/2005 / 8:39 PM
Lead	0.005	5	< 0.005	mg/L	9/15/2005 / 8:39 PM
Nickel	0.003	70	**1.42**	**mg/L**	9/15/2005 / 8:39 PM
Selenium	0.024	1	< 0.024	mg/L	9/15/2005 / 8:39 PM
Silver	0.002	5	< 0.002	mg/L	9/15/2005 / 8:39 PM
Vanadium	0.002		< 0.002	mg/L	9/15/2005 / 8:41 PM

TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: DCW Date / Time
Mercury	0.0002	0.2	< 0.0002	mg/L	9/16/2005 / 3:11 PM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Holland D. Gilmore, Laboratory Director

Friday, September 16, 2005
Date

EPAHO103001526

MES - CHAIN OF CUSTODY

1-800-771-4MES
(281) 476-4534
Fax (281)-476-4406

Mercury Environmental Services
6913 Hwy. 225 • Deer Park, TX 77536

1

COMPANY NAME: (BILL TO:) CES Environmental

COMPANY ADDRESS: 4704 Griggs

CITY LP STATE TX ZIP 77021

CONTACT PERSON'S NAME: Gary Brauchmann

CONTACT PERSON'S PHONE: 713 417-3777 FAX #: 713 676-1676

2

YOUR PROJECT NO.:	YOUR P.O. #:	YOUR PROJECT NAME:
Hitemco	VOC Grp	Hitemco Satsuma

PROJECT ADDRESS: Cozad

3

YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATRIX
Blasting Grit Satsuma	2	7-8-05	1:00	Soil
" " Cozad		7-8-05	2:30	Soil

4 PARAMETERS FOR ANALYSIS

TCLP VOCs

NUMBER OF CONTAINERS | PRESERVATIONS

5 REMARKS

TURNAROUND TIME Standard

DETECTION LIMITS SPECIAL LIMITS REQUIRED

Yes No

Please circle one, if Yes, please describe below or include separate sheet detailing requirements.

ODEC SC

6

PERSON TAKING SAMPLE SIGNATURE (a. - Print Name & b. - Sign.):

a. Gary Brauchmann b.

7

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
	7-14-05	1:35	

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

METHOD OF PAYMENT	SHIPPED BY: (Signature)	COURIER (Signature)	RECEIVED FOR MES,BY: (Signature)	DATE	TIME
				7/11	1335

8

Sample Remainder Disposal

☐ Return Sample Remainder To Client Via _____

☐ I Request Lab To Dispose Of All Sample Remainders

(Signature) _____ (Date) _____

Form # MES - CCRI

WHITE & CANARY – Shipped with Sample **PINK – Retained by Customer** **WHITE – Returned with Report**

EPAHO103001527

2222

Rohmax USA
2222

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/28/2007**

Dear **David Willis**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2222

Generator: RohMax USA, Inc.-Houston
Address: 1700 Tidal Road
Deer Park, TX 77536

Waste Information

Name of Waste: Viscoplex 6-850
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Off spec Viscoplex
Color: yellow **Odor:** ester-like **pH:** 3-11
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Ronmax
Address: 1700 Tiagi Road
City, State, Zip: Deer Park, TX 77536
Contact: David Willis Title:
Phone No: 281-228-8156 Fax No: 713-705-9447
24/hr Phone:
U.S. EPA I.D. No: TXR000015869
State I.D. 84595 SIC Code: NA

SECTION 2: Billing Information – ☐ Same as Above

Company: Select Environmental
Address: 223 McCarty
City, State, Zip: Houston, TX 77029
Contact: Ron Kohler Title:
Phone No: 713-675-7370 Fax No: 713-672-4530

SECTION 3: General Description of the Waste

Name of Waste: Viscoplex 1-850
Detailed Description of Process Generating Waste: Off Spec viscoplex

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: yellow Odor: ester-like

Specific Gravity (water=1): .908g/cm³ Density: 7.5 lbs/gal

Layers: ☐ Single-phase ☑ Multi-phase

Container Type: ☐ Drum ☐ Tote ☒ Truck ☐ Other (explain)
Container Size: ____ ____ 5500 ____

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 2 Other: ____
Texas State Waste Code No: Recycle
Proper U.S. DOT Shipping Name: Non DOT regulated material
Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
7200	3-11	NA mg/l	NA mg/l	0-2 %

Oil&Grease	TOC	Zinc	Copper	Nickel
NA mg/l	NA mg/l	NA mg/l	NA mg/l	NA mg/l

EPAHO103001530

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
acrylic copolymer	30 - 60	%
neutral oil	40 - 70	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

— Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

— MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

— Oxidezers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ✓
TCLP Volatiles: ✓
TCLP Semi-Volatiles: ✓
Reactivity: ✓
Corrosivity: ✓
Ignitability: ✓

SECTION 9: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: N/A - product **Date:** 6/1/07

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information:
Compliance Officer: [signature] Date: 6-4-07 Approved Rejected Approval Number: 2222	ces to pay $1.45/gal Run inbound report Product

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☑ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001532

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001533

1.3#/gal.

1. Chemical Product and Company Identification

VISCOPLEX® 6-850

RohMax USA, LP
723 Electronic Drive
Horsham, PA 19044-2228

Telephone No.	215-706-0843
Toll Free No.	1-888-876-4629
Regulatory Specialist	215-706-5840
Spill, Leak, Fire, Exposure or Accident	
CHEMTREC®	1-800-424-9300
Outside USA	703-527-3887
Collect calls accepted	
CANUTEC	613-996-6666 (RohMax Canada, Inc.)

RohMax Additives GmbH
Kirschenallee
D-64293 Darmstadt

Telephone no.	+49 6151/18-09
Emergency Tel.	+49 6151/18-4342
	+33 3 88 73 60 00 (RohMax France)

Product Use: Viscosity index improver

2. Composition/Information on Ingredients

This material is classified as hazardous under OSHA regulations.

Ingredients	CAS Reg. No.	Weight %
acrylic copolymer	trade secret	30 - 60
neutral oil	64742-55-8	40 - 70

NJTSR # RX000394

See Section 8, Exposure Controls/Personal Protection

3. Hazards Identification

Emergency Overview

Color:	yellow
Appearance:	viscous
Odor:	ester-like

MAY CAUSE EYE AND SKIN IRRITATION

Primary Routes of Exposure
Skin contact
Eye contact

Potential Health Effects

Eye contact
May cause eye irritation.

Skin contact
May cause skin irritation.

Potential Environmental Effects
See SECTION 12, Ecological Information

4. First Aid Measures

First Aid Procedures

Inhalation
Move subject to fresh air.

Eye contact
Flush eyes with plenty of water for at least 15 minutes. Consult a physician if irritation persists.

Skin contact
Wash off immediately with soap and water. Remove contaminated clothing and shoes. Obtain medical attention if irritation develops. Wash clothing before reuse.

Ingestion
Get immediate medical attention. Only induce vomiting if directed by a physician. Never give anything by mouth to an unconscious person.

Note to Physician
Product is soluble in medical white oil (BP) and/or paraffin oil.

5. Fire-Fighting Measures

Flash point	> 120 °C	(ASTM D 3278)
	> 248 °F	(ASTM D 3278)
Ignition temperature	not available	
Spontaneous ignition	not available	
Lower explosion limit	not available	
Upper explosion limit	not available	
OSHA Flammability Classification	none	

Unusual Hazards
Combustion generates toxic fumes of the following: carbon oxides

Extinguishing Media
Use the following extinguishing media when fighting fires involving this material:
water spray (fog), CO2, dry chemicals, and/or extinguishing agents appropriate for the surrounding fire

Fire Fighting Procedures
Wear self-contained breathing apparatus (pressure-demand MSHA/NIOSH approved or equivalent). Wear full protective gear.

6. Accidental Release Measures

Personal Protection

Wear a MSHA/NIOSH approved (or equivalent) half-mask, air-purifying respirator. Wear compatible, chemically resistant gloves. Wear protective clothing, including splash proof goggles and rubber overshoes. Take off immediately all contaminated clothing.

For further Information see SECTION 8, Exposure Controls/Personal Protection.

Procedures

Floor may be slippery; use care to avoid falling. Contain spills immediately with inert materials (e.g. sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal. CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. Handling and Storage

Handling

Keep container tightly closed. Wash thoroughly after handling. Avoid formation of oil mist. Ensure the area is well ventilated.

Storage

Keep container tightly closed and store in a well ventilated area. Do not store at temperatures above 100 °C / 212 °F. Low temperature storage can cause handling problems. Viscosity of material will increase.

8. Exposure Controls/Personal Protection

Exposure Limit Information

OIL MIST, MINERAL - see Remark/s

Occupational Exposure Values			Remark(s):
ACGIH TLV-TWA		5 mg/m3	(mist)
ACGIH TLV-STEL		10 mg/m3	(mist)
OSHA PEL-TWA		5 mg/m3	CAS No. 8012-95-1
OSHA PEL-STEL			not established
OEL-TWA (Alberta)		5 mg/m3	CAS No. 8012-95-1
OEL-STEL (Alberta)		10 mg/m3	CAS No. 8012-95-1
OEL-TWA (British Columbia)		290 mg/m3	CAS No. 8052-41-3
OEL-STEL (British Columbia)		580 mg/m3	CAS No. 8052-41-3
OEL-TWA (Ontario)		5 mg/m3	CAS No. 8012-95-1
OEL-STEL (Ontario)		10 mg/m3	CAS No. 8012-95-1
OEL-TWA (Quebec)		5 mg/m3	CAS No. 8012-95-1
OEL-STEL (Quebec)		10 mg/m3	CAS No. 8012-95-1
OEL-TWA (Mexico)		5 mg/m3	CAS No. 8012-95-1
OEL-STEL (Mexico)		10 mg/m3	CAS No. 8012-95-1

Engineering Controls (Ventilation)
None required under normal operating conditions.

Personal Protective Equipment (PPE)

Respiratory protection

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Where misting may occur, wear a MSHA/NIOSH approved (or equivalent) half mask, dust/mist air purifying respirator.

Eye Protection
Use safety glasses (ANSI Z87.1 or approved equivalent).

Skin Protection
Use chemically resistant apron or other impervious clothing to avoid prolonged or repeated skin contact.

Hand Protection
The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection:
nitrile rubber gloves
Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

Other Protective Equipment
Facilities storing or utilizing this material should be equipped with an eyewash facility.

9. Physical and Chemical Properties

Appearance	yellow
Physical state	viscous
Odor	ester-like
Flash point	> 120 °C (ASTM D 3278)
	> 248 °F (ASTM D 3278)
pH-value	not applicable
Viscosity (kinematic)	1,175 mm2/s at 100 °C / 212 °F (ASTM D445)
Specific gravity (water = 1)	0.908 g/cm3 at 15 °C / 59 °F
Vapor density (air = 1)	> 1 at 20 °C / 68 °F
Vapor pressure	< 1 hPa (= mbar) at 20 °C / 68 °F
Pourpoint	not available
Boiling Temperature	not available
Solubility in water	virtually insoluble
Evaporation rate	not available
Odor threshold	not available
Further information	none

See Section 5, Fire Fighting Measures

10. Stability and Reactivity

Stability
No decomposition when used as directed.

Conditions To Avoid
This material is considered stable under specified conditions of storage, shipment and/or use.

Incompatibility With Other Materials
Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products
methacrylates (in case of thermal decomposition), When overheated: oil vapours

Hazardous Polymerization
Product will not undergo polymerization.

11. Toxicological Information

Acute Oral Toxicity

LD50 rat (analogy)	> 2,000 mg/kg

Acute Dermal Toxicity

LD50 rabbit (analogy)	> 2,000 mg/kg

Irritant Effect on the Skin
If contact with skin is prolonged and/or frequent, irritations cannot be excluded. The product has a degreasing effect on skin.

Irritant Effect on the Eyes
Contact with the eyes may cause irritation.

Further Information on Toxicology
There are no toxicological data available for the product as such.
Avoid contact with the skin and eyes and inhalation of the product vapours.

12. Ecological Information

Information on elimination (persistence and degradability)

Ecotoxicological effect

Further Information on Ecology
Do not allow to enter soil, waterways or waste water

13. Disposal Considerations

Procedures
Incinerate liquid and contaminated solids in accordance with local, state and federal regulations.

14. Transport Information

Further information
Not subject to the regulations on dangerous goods.

15. Regulatory Information

INVENTORY INFORMATION

EC EINECS	listed
USA TSCA	listed
Canada DSL	listed
Australia AICS	listed
Japan MITI	listed
South Korea ECL	listed
Philippines PICCS	listed
China	listed

US FEDERAL REGULATORY INFORMATION

Component / CASRN	TPQ [lbs]	CERCLA RQ [lbs] (40CFR302.4)	SARA 302 List of EHS	SARA 313 (40CFR372)	TSCA 12b
NONE					

COMPONENT CLASSIFICATION UNDER CLEAN AIR ACT SECTION 112

Component / CASRN	Weight %	HAP	EHAP
NONE			

PRODUCT CLASSIFICATION UNDER SECTION 311/312 OF SARA (40CFR370)

ACUTE,

US STATE REGULATORY INFORMATION

Component / CASRN	New Jersey RTK	Pennsylvania RTK	Massachusetts RTK	California Proposition 65 Cancer	California Proposition 65 Reproductive
acrylic copolymer	NO	NO	NO	NO	NO
neutral oil / 64741-88-4	NO	NO	NO	NO	NO
neutral oil / 64741-89-5	NO	NO	YES	NO	NO
neutral oil / 64742-55-8	NO	NO	YES	NO	NO

CANADIAN REGULATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation and the MSDS contains all information required by the Controlled Products Regulations.

This is a controlled product.
WHMIS: D2B

Component / CASRN	NPRI
NONE	

16. Other Information

	Health	Flammability	Reactivity
HMIS-Ratings	1	1	0
NFPA-Ratings	1	1	0

HMIS Hazard Ratings	NFPA Hazard Ratings
4 = severe	4 = extreme
3 = serious	3 = high
2 = moderate	2 = moderate
1 = slight	1 = slight
0 = minimal	0 = insignificant
* = chronic health hazard	N = no NFPA rating

This MSDS was prepared in accordance with ANSI Z400.1-1998.

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Date of printing : 03/26/2007

John W. Stone Oil
2223

2223

EPAHQ1030001541

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/29/2007**

Dear **Grady Franchebois**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2223

Generator: John W. Stone Oil Distributor, L.L.C.
Address: 87 First Street
Gretna, LA 70054-2010

Waste Information

Name of Waste: Unused oil
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Out of spec material
Color: amber **Odor:** oil **pH:** na
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

212

SECTION 1: Generator Information

Company:	John W. Stone Oil Distributor, L.L.C.		
Address:	87 First Street		
City, State, Zip:	Gretna, LA 70054-2010		
Contact:	Grady Franchebois	**Title:**	Manager
Phone No:	504-374-0157	**Fax No:**	504-374-0132
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	NA		
State I.D.	NA	**SIC Code:**	N/A

SECTION 2: Billing Information – ☐ Same as Above

Company:	John W. Stone Oil Distributor, L.L.C.		
Address:	P.O. Box 2010		
City, State, Zip:	Gretna, LA 70054-2010		
Contact:	Grady Franchebois	**Title:**	Manager
Phone No:	504-374-0157	**Fax No:**	504-374-0132

SECTION 3: General Description of the Waste

Name of Waste: Unused Oil
Detailed Description of Process Generating Waste: Out of Spec Material

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Amber **Odor:** Oil

Specific Gravity (water=1): .80 **Density:** 8 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☐ Drum	☐ Tote	☒ Truck	☐ Other (explain)
Container Size:	____	____	5500 gal	____

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point >140	**pH** NA	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** <1%
Oil&Grease >1500mg/l	**TOC** >1500mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

EPAHO103001543

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Turbine Oil (Unused)	50-100	%
Misc. weights of motor oil, gear oil etc. (Unused)	50-100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Grady Franchebois **Date:** JUN 1 2007

Printed Name/Title: Grady Franchebois Lubricants Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Thigpen

Date: 6-5-07 Approved Rejected

Approval Number: 2223

Additional Information: Recycle Pay $1.50/gal or priced Based on current market price Trans By Customer

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001545

2224 Praxair (Deer Park)
#2224

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/31/2007**

Dear

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2224

Generator: Praxair (Deer Park)
Address: 622 Tidal Road
Deer Park, TX 77536

Waste Information

Name of Waste: Universal waste - light bulbs
TCEQ Waste Code #: UNIV
Container Type: box
Detailed Description of Process Generating Waste:
Used Light bulbs
Color: varies **Odor:** none **pH:** na
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DC

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Praxair (Deer Park)		
Address:	622 Tidal Road		
City, State, Zip:	Deer Park, TX 77536		
Contact:	Rick Hemminger	**Title:**	HSE Manager
Phone No:	281-478-7844	**Fax No:**	281-478-7834
24/hr Phone:			
U.S. EPA I.D. No:	TXD008073421		
State I.D.	30296	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Invoice Auditing Department Praxair Inc.		
Address:	P.O. Box 808		
City, State, Zip:	Tonawanda, NY 14151-0808		
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Universal Waste - Light Bulbs
Detailed Description of Process Generating Waste: Used light bulbs

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: varies **Odor:** none

Specific Gravity (water=1): NA **Density:** NA lbs/gal

Layers: ☑ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☒ Other (explain)
Container Size: ____ ____ ____ boxes

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 5 **Other:** ____
Texas State Waste Code No: Universal Waste
Proper U.S. DOT Shipping Name: Environmentally Hazardous Substance, solid, n.o.s.
Class: 9 **UN/NA:** UN3077 **PG:** III **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
NA	NA	NAmg/l	NAmg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
NAmg/l	NAmg/l	NAmg/l	NAmg/l	NAmg/l

EPAHO103001548

SECTION 4: Physical and Chemical Data

COMPONENTS/PARAMETERS	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Flourescent Light Bulbs	0-100	%
Allied Light Bulbs	0-100	%
Sodium Light Bulbs	0-100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: R. C. Hemminger **Date:** ~~12-8-06~~ 6/5/07

Printed Name/Title: Rick Hemminger - Environmental Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information: Universal
Compliance Officer: Rebbeca Hemminger	$100.00 pick up fee
Date: 6-6-07 Approved Rejected	Recycling @ $0.20/ft
Approval Number: 2224	4ft boxes @ $10.00 each
	8ft boxes @ $15.00 each

EPAHO103001549

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001550

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001551

Vetco Gray
2225

2225

EPAHO103001552

QE
8-4-09
LAB
T-34

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/31/2007**

Dear **Dustin Cambell**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2225

Generator: Vetco Gray
Address: 12221 N. Houston Rosslyn
Houston, TX 77086

Waste Information

Name of Waste: Phosphate liquids
TCEQ Waste Code #: 04011031
Container Type:
Detailed Description of Process Generating Waste:
Wastewater from a metal stripping/preparation operations (phosphate vat only)
Color: clear to green **Odor:** slight **pH:** 2.43
Physical State:
Incompatibilities: none known
Safety Related Data/Special Handling:
standard

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DC

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company:	Vetco Gray Inc		
Address:	12221 N. Houston Rosslyn Road		
City, State, Zip:	Houston, TX 77086		
Contact:	Dustin Campbell	**Title:**	HSE Coordinator
Phone No:	281-847-4644	**Fax No:**	281-405-5644
24/hr Phone:			
U.S. EPA I.D. No:	TXD060720505		
State I.D.	30299	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Phospahate Liquids
Detailed Description of Process Generating Waste: Wastewater from a metal stripping/preparation operation (phosphate vat only)

Physical State: ☒ **Liquid** ☒ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: clear to green **Odor:** slight

Specific Gravity (water=1): 1 **Density:** 8.34 lbs/gal

Layers: ☐ **Single-phase** ☒ **Multi-phase**

Container Type:	☒	**Drum**	☐ **Tote**	☐	**Truck**	☒	**Other (explain)**
Container Size:		55 gal	_____		_____		Vacuum box

Frequency: ☐ **Weekly** ☐ **Monthly** ☐ **Quarterly** ☒ **Yearly**
Number of Units (containers): 10 **Other:** _____
Texas State Waste Code No: 04011031
Proper U.S. DOT Shipping Name: Non RCRA/Non DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point >150	**pH** 2.43	**Reactive Sulfides** <0.25mg/l	**Reactive Cyanides** <0.25mg/l	**Solids** 0-10%
Oil&Grease <150mg/l	**TOC** <100mg/l	**Zinc** NAmg/l	**Copper** NAmg/l	**Nickel** 512mg/l

EPAHO103001555

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	99-99.5	%
Acid	0.5-1	%
Oil	trace	

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Analytical 7040778 + MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ____
TCLP Volatiles: ____
TCLP Semi-Volatiles: ____
Reactivity: ____
Corrosivity: ____
Ignitability: ____

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 6/6/07

Printed Name/Title: Dustin Campbell

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information:
Compliance Officer: _____ Date: 6-6-07 (Approved) Rejected Approval Number: 2225	Do not mix w/ high pH waste streams $69/drum Shread drums, 1L do not clean drums

EPAHO103001556

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☒ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☒ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001557

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001558

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536
Phone: (281)-476-4534 Fax: (281)-476-4406

CES Environmental Services
4904 Griggs Rd
Houston, TX 77021

Phone: (713) 676-1460
Fax: (713) 676-1676

Attn: **Dana Carter**

- CERTIFICATE OF RESULTS -

MES Lab#: 7040778

Client Sample ID: Phosphate Liquids
Extended ID: Pancerizer Vat Cleanout

Project#: VetcoGray

Sample Collect Date: 4/17/2007 @ 1:45:00 PM
Sample Receipt Date: 4/17/2007 @ 4:30:00 PM

Sample Type: Comp

Test Group / Method

Total Petroleum Hydrocarbons Solid Method: TNRCC 1005	MDL	Result	Units	Analyst: TFR Date / Time
C6 - C12 Hydrocarbons	4	< 4	mg/kg	4/27/2007 / 11:31 AM
>C12 - C28 Hydrocarbons	8	< 8	mg/kg	4/27/2007 / 11:31 AM
>C28 - C36 Hydrocarbons	8	< 8	mg/kg	4/27/2007 / 11:31 AM
Total TPH	20	< 20	mg/kg	4/27/2007 / 11:31 AM

Reactivity, Recoverable Hydrogen Cyanide Method: 7.3.3.2	MDL	Result	Units	Analyst: CL Date / Time
Hydrogen Cyanide	0.25	< 0.25	mg/kg	4/18/2007 / 12:57 PM

Reactivity, Recoverable Hydrogen Sulfide Method: 7.3.4.2	MDL	Result	Units	Analyst: CL Date / Time
Hydrogen Sulfide	0.25	< 0.25	mg/kg	4/18/2007 / 1:45 PM

Corrosivity: pH Method: SW-846 9045	MDL	Result	Units	Analyst: DEB Date / Time
pH		**2.43**		4/18/2007 / 9:30 AM

Ignitability Method: SW-846 1010	MDL	Result	Units	Analyst: DEB Date / Time
Flashpoint		**>150**	**deg F**	4/18/2007 / 11:00 AM

TCLP Metals (11) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: HDGIL Date / Time
Antimony	0.032	1	< 0.032	mg/L	4/19/2007 / 2:44 PM
Arsenic	0.014	5	< 0.014	mg/L	4/19/2007 / 2:44 PM
Barium	0.0005	100	**3.18**	**mg/L**	4/19/2007 / 2:44 PM
Beryllium	0.0005	0.08	**0.0428**	**mg/L**	4/19/2007 / 2:44 PM
Cadmium	0.002	1	< 0.002	mg/L	4/19/2007 / 2:44 PM
Chromium	0.002	5	**0.273**	**mg/L**	4/19/2007 / 2:44 PM

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- CERTIFICATE OF RESULTS -

MES Lab#: 7040778

Client Sample ID: Phosphate Liquids **Project#:** VetcoGray
Extended ID: Pancerizer Vat Cleanout

Sample Collect Date: 4/17/2007 @ 1:45:00 PM **Sample Type:** Comp
Sample Receipt Date: 4/17/2007 @ 4:30:00 PM

Lead	0.005	5	< 0.005	mg/L	4/19/2007 /	2:44 PM
Nickel	0.003	70	**H 512**	mg/L	4/19/2007 /	2:44 PM
Selenium	0.024	1	**0.301**	mg/L	4/19/2007 /	2:44 PM
Silver	0.002	5	**0.062**	mg/L	4/19/2007 /	2:44 PM

TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: AM Date / Time	
Mercury	0.0002	0.2	< 0.0002	mg/L	4/18/2007 /	8:17 PM

TCLP Volatiles Method: SW-846 8260B	MDL	RL	Result	Units	Analyst: HDG Date / Time	
Vinyl chloride	0.010	0.2	< 0.010	mg/L	4/20/2007 /	3:32 AM
1,1-Dichloroethene	0.005	0.7	< 0.005	mg/L	4/20/2007 /	3:32 AM
2-Butanone	0.050	200	< 0.050	mg/L	4/20/2007 /	3:32 AM
Chloroform	0.005	6	< 0.005	mg/L	4/20/2007 /	3:32 AM
Carbon tetrachloride	0.005	0.5	< 0.005	mg/L	4/20/2007 /	3:32 AM
1,2-Dichloroethane	0.005	0.5	< 0.005	mg/L	4/20/2007 /	3:32 AM
Benzene	0.005	0.5	< 0.005	mg/L	4/20/2007 /	3:32 AM
Trichloroethene	0.005	0.5	< 0.005	mg/L	4/20/2007 /	3:32 AM
Tetrachloroethene	0.005	0.7	< 0.005	mg/L	4/20/2007 /	3:32 AM
Chlorobenzene	0.005	100	< 0.005	mg/L	4/20/2007 /	3:32 AM
1,4-Dichlorobenzene	0.005	7.5	< 0.005	mg/L	4/20/2007 /	3:32 AM
Hexachlorobutadiene	0.005	0.5	< 0.005	mg/L	4/20/2007 /	3:32 AM

TCLP Sem-Volatiles Method: SW-846 8270C	MDL	RL	Result	Units	Analyst: TFR Date / Time	
Pyridine	0.10	5	< 0.10	mg/L	4/20/2007 /	4:19 AM
1,4-Dichlorobenzene	0.10	7.5	< 0.10	mg/L	4/20/2007 /	4:19 AM
o-Cresol	0.10	200	< 0.10	mg/L	4/20/2007 /	4:19 AM
m+p-Cresol	0.10	200	< 0.10	mg/L	4/20/2007 /	4:19 AM
Hexachloroethane	0.10	3	< 0.10	mg/L	4/20/2007 /	4:19 AM
Nitrobenzene	0.10	2	< 0.10	mg/L	4/20/2007 /	4:19 AM
Hexachlorobutadiene	0.10	0.5	< 0.10	mg/L	4/20/2007 /	4:19 AM
2,4,6-Trichlorophenol	0.10	2	< 0.10	mg/L	4/20/2007 /	4:19 AM
2,4,5-Trichlorophenol	0.10	400	< 0.10	mg/L	4/20/2007 /	4:19 AM
2,4-Dinitrotoluene	0.10	0.13	< 0.10	mg/L	4/20/2007 /	4:19 AM
Hexachlorobenzene	0.10	0.13	< 0.10	mg/L	4/20/2007 /	4:19 AM
Pentachlorophenol	1.00	100	< 1.00	mg/L	4/20/2007 /	4:19 AM

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MERCURY ENVIRONMENTAL SERVICES
QA/QC REPORT

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SURROGATE SPIKE RECOVERY FOR VOLATILES	% REC
Dibromofluoromethane	108.1
Toluene-d8	101.6
4-Bromofluorobenzene	111.7

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SURROGATE SPIKE RECOVERY FOR VOLATILES	% REC
Dibromofluoromethane	104.3
Toluene-d8	102.6
4-Bromofluorobenzene	108.0

VOLATILES	MS %REC	MSD %REC	%RSD	CCV %REC	MB mg/L	LCS %REC	LCSD %REC	%RSD
Vinyl Chloride	108.2	94.6	3.4	96.1	< 0.010	107.4	106.8	0.1
1,1-Dichloroethene	99.0	91	2.1	88.4	< 0.005	100.4	98	0.6
2-Butanone	103.0	95.6	1.9	90.6	< 0.050	101.8	103.6	0.4
Chloroform	93.8	86	2.2	88.2	< 0.005	96.2	96.2	0.0
Carbon tetrachloride	107.4	94.8	3.1	96.2	< 0.005	111.4	109.2	0.5
1,2-Dichloroethane	91.4	85.8	1.6	88.8	< 0.005	94.6	93	0.4
Benzene	99.4	94	1.4	90.8	< 0.005	97.8	95.6	0.6
Trichloroethene	96.8	88.6	2.2	90.2	< 0.005	98.8	99.6	0.2
Tetrachloroethene	100.0	91.4	2.2	87.7	< 0.005	139.0	98.8	8.5
Chlorobenzene	94.2	86.2	2.2	92	< 0.005	100.4	96.6	1.0
1,4-Dichlorobenzene	89.0	78.4	3.2	88.6	< 0.005	96.6	93.6	0.8
Hexachlorobutadiene	69.0	56.4	5.0	86	< 0.005	99.4	97	0.6

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SURROGATE SPIKE RECOVERY FOR SEMIVOLATILES	% REC
2-Fluorophenol	49.1
Phenol-d6	57.9
Nitrobenzene-d5	47.7
2-Fluorobiphenyl	94.7
2,4,6-Tribromophenol	45.2
p-Terphenyl-d14	47.9

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SURROGATE SPIKE RECOVERY FOR SEMIVOLATILES	% REC
2-Fluorophenol	40.3
Phenol-d6	69.9
Nitrobenzene-d5	40.6
2-Fluorobiphenyl	65.3
2,4,6-Tribromophenol	58.4
p-Terphenyl-d14	57.9

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QA/QC REPORT CONTINUED

SEMI-VOLATILES	MS %REC	MSD %REC	CCV	MB %REC	LCS	LCSD %REC	mg/L		%REC	%REC
Pyridine				40.5	49.8	84.1	< 0.05		34.4	49.6
1,4-Dichlorobenzene				38.2	45.8	113.3	< 0.05		56.2	46.6
o-Cresol				34.3	40.5	110.0	< 0.05		57.8	53.8
m+p Cresol				35.3	37.6	117.4	< 0.05		54.2	45
Hexachloroethane				52.3	39.1	115.7	< 0.05		49.6	49.1
Nitrobenzene				33.1	53.8	106.2	< 0.05		42.5	51.4
Hexachloro-1,3-butadiene				34.9	36.3	101.4	< 0.05		51	65.2
2,4,6-Trichlorophenol				39.2	40.4	101.9	< 0.05		41.8	65.6
2,4,5-Trichlorophenol				36.6	36.9	96.3	< 0.05		37.9	59.6
2,4-Dinitrotoluene				29.6	29.6	95.3	< 0.05		28.7	57.2
Hexachlorobenzene				47.6	46.6	112.6	< 0.05		54.4	46.4
Pentachlorophenol				29.1	24	65.4	< 0.5		47	41.1

ANALYTE	MB mg/L	LCS %REC	LCSD %REC	RPD	CCB mg/L	CCV %REC	MS %REC	MSD %REC	RPD
Antimony	< 0.005	107.5	111	3.32	< 0.005	105	81.2	83.6	2.9
Arsenic	< 0.002	94	94	0.7	< 0.002	91	76.4	77.2	1.04
Barium	< 0.002	105.0	105	0.43	< 0.002	101	65.2	67.7	3.8
Beryllium	< 0.002	109.6	110	0.73	< 0.002	107	82.1	84.6	3.1
Cadmium	< 0.001	109.4	110.9	1.32	< 0.001	107	70.9	72.0	1.5
Chromium	< 0.001	109	107	2.50	< 0.001	103	70.0	72.2	3.0
Lead	< 0.002	106.1	109.2	2.90	< 0.002	107	67.7	71.9	6.1
Mercury	< 0.0002	101.0	97.5	3.53	< 0.0002	102.0			
Nickel	< 0.001	105	106	1.66	< 0.001	104	69.3	74.9	7.7
Selenium	< 0.024	108.1	91.4	16.7	< 0.024	87	64.9	61.8	5.0
Silver	< 0.001	110	109	0.91	< 0.001	104	73.4	75.6	3.06

ANALYTES	METHOD TPH1005	MB mg/kg	CCV %REC	MS %REC	MSD %REC
C6-C12		< 4	93.4	84.7	85.0
C12-C28		< 8	106.6	103.1	105.7

ANALYTE	STD
Flashpoint	82°F

ANALYTE	BUFFER 7.0	ORIG	DUP	RPD
pH	7.0	2.43	2.41	0.83

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QA/QC REPORT CONTINUED

ANALYTE	ORIG mg/kg	DUP mg/kg	RPD
Reactivity as Hydrogen Sulfide	< 0.25	< 0.25	0.00

ANALYTE	ORIG mg/kg	DUP mg/kg	RPD	STD %REC
Reactivity as Hydrogen Cyanide	< 0.005	< 0.005	0.00	103

Key to QA Abbreviations

MS=Matrix Spike
LCS=Laboratory Control Standard
MSD=Matrix Spike Duplicate
CCV=Continuing Calibration Verification
RPD=Relative Percent Deviation
CCB=Continuing Calibration Blank
MB=Method Blank
Rec=Percent Recovery

Signature: _____
Holland D. Gilmore / Laboratory Director

April 28, 2007

EPAHO103001563

MES - CHAIN OF CUSTODY

Mercury Environmental Services
6913 Hwy. 225 • Deer Park, TX 77536
1-800-771-4MES
(281) 476-4534
Fax (281)-476-4408

1

COMPANY NAME: (BILL TO:) CES Environmental Services
COMPANY ADDRESS: 4904 Griggs Road
CITY Houston STATE TX ZIP 77021
CONTACT PERSON'S NAME: Dana Carter
CONTACT PERSON'S PHONE: 713-748-9804 FAX #: 713-676-1676

2

YOUR PROJECT NO.: Vetco Gray
YOUR P.O. #:
YOUR PROJECT NAME: Pomerizer Vat Cleanout
PROJECT ADDRESS:

3

4 PARAMETERS FOR ANALYSIS

YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATRIX	TPH	RCI	TCLP 11 Metals	TCLP Vol.	TCLP Semi Vol.			NUMBER OF CONTAINERS	PRESERVATIONS
Phosphate Solids	Comp	4/17	145p		X	X	X	X	X				
Phosphate liquids	Comp	4/17	145p		X	X	X	X	X				

5 REMARKS

TURNAROUND TIME: Standard

DETECTION LIMITS SPECIAL LIMITS REQUIRED: Yes No
Please circle one, if Yes, please describe below or include separate sheet detailing requirements.

ONICE

6

PERSON TAKING SAMPLE SIGNATURE (a. - Print Name & b. - Sign.): a. Dana Carter b. Dana R Carter
RELINQUISHED BY: (Signature) Dana R Carter DATE 4/17 TIME 430 RECEIVED BY: (Signature) Mandu Dn

7

RELINQUISHED BY: (Signature) DATE TIME RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE TIME RECEIVED BY: (Signature)

METHOD OF PAYMENT
SHIPPED BY: (Signature)
COURIER (Signature)
RECEIVED FOR MES BY: (Signature) Mandu Dn DATE 4/17 TIME 1630

8

Sample Remainder Disposal
☐ Return Sample Remainder To Client Via
☐ I Request Lab To Dispose Of All Sample Remainders
(Signature) (Date)

Form # MES - CCRI

WHITE & CANARY – Shipped with Sample PINK – Retained by Customer WHITE – Returned with Report

Active: ☒	Inactive: ☐

GENERAL INFORMATION	
Waste Description: Phosphate Liquids	**Waste ID No:** 04011031
	Facility ID No: 30299
Form Code Description: Spent Acid with Metals	**Facility:** NHR
	Date: 6/6/2007

PROCESS KNOWLEDGE	
Full Description of Waste Stream Generation Activities:	These liquids are waste residues from the Phosphate Vat in the Parkerizer operation that are generated during maintenance cleanouts of the vat. Waste consists of Aerocote 3 product diluted to proper mixture and impurities that are removed from parts during the conversion coating process.
Chemicals/Materials involved in the waste generation process:	Nalco Aerocote 3: Zinc Nitrate Zinc Dihydrogen Phosphate Phosphoric Acid Nickel Nitrate Sediment and sludge from impurities removed from parts
Potential Contaminants:	Metals Hydrocarbons
MSDS Information (flash point, etc.) :	See MSDSs Attached or located in MSDS system

ANALYTICAL DATA – SAMPLING PROCEDURES			
Sample Date(s):	4/17/07	**Site/Unit Description(s):**	Collected from drums of waste generated during maintenance cleanout of phosphate vat.
Sampling Methods and Equipment:	Material was collected from drums using a clean, plastic dipper. Clean latex gloves were used and material was placed in laboratory supplied glass sample jars.		
Sampling Techniques (collection, containerization, preservation):	Grab samples were collected from each of 4 drums and composited using a plastic dipper and clean latex gloves. Material was mixed and placed into clean, laboratory supplied glass sample jars. Jars were placed in an ice-filled cooler to 4 deg. Celcius and picked-up by the lab.		
Rationale for Sampling Plan :	Grab samples were collected from the only drums at the faility that contained the waste. These grab samples were representative of the waste in each of the 4 drums on-site at the time.		

DOCUMENTATION ATTACHED							
Analytical Results:	☒	**C-O-C:**	☒	**Operating Procedure**	☐	**Classification Checklist:**	☒
QC Data:	☒	**MSDS:**	☒	**Material Specification**	☐		

WASTE DESCRIPTION: Phosphate Liquids	TWC: 04011031

This chapter provides a checklist to help you classify your hazardous waste and your nonhazardous industrial waste. For an overview of these types of waste, refer back to Figure 1 in Chapter 1; for more details, refer to 30 TAC Chapter 335 Subchapter R Sections 335.501–508. (You can obtain your own copy of state rules from the TCEQ publications unit; ways to contact this unit are listed under the heading "TCEQ and EPA Forms" in Chapter 6.)

Process Knowledge vs. Analytical Testing
In determining a waste stream's classification, a generator may use *process knowledge*and/or *analytical testing*. Process knowledge is the owner or operator's knowledge about how the facility operates, how a waste was produced and handled, and other information based on operating experience. Analytical testing is information about a waste from laboratory analysis. In the checklist, the nonhazardous classification criteria that could involve analytical testing have been marked with an *. This marking **does not** mean that analytical testing is the only way to evaluate these criteria. If sufficient process knowledge is available, little or no analysis may need to be performed. You should evaluate whether you have enough process knowledge about the waste to classify it or whether analytical testing is needed.

Documentation
Regardless of whether you rely on process knowledge or opt for analytical testing, you must fully document the information used in making your waste classification. **A completed checklist does not qualify as full documentation**. Documentation should be in a written and/or electronically stored format that is reasonably accessible and easily reproducible. For details on documentation requirements, see Chapter 4.

Part I. Hazardous Waste Determination
All waste generators should work through Part I of this checklist. In this part you will determine whether your waste is hazardous because (a) it is listed as hazardous by EPA or (b) it displays characteristics that EPA says make it hazardous.

In federal regulatory language, the first step in classifying your waste is called "making a *hazardous waste determination*." The definition of hazardous waste, based upon the Resource Conservation and Recovery Act (RCRA), is found in Title 40 of the Code of Federal Regulations (CFR), Part 261. This TCEQ guidance document reflects the hazardous waste definition in the *FederalRegister* as of July 1, 2004. If that definition changes, the generator is still responsible for making an accurate hazardous waste determination in accordance with the latest regulations—instead of with what is printed in this guidance document.

IF the answer to any of the questions in Part I is "Yes,"
THEN the waste is hazardous.

Possible *Exclusions* from Hazardous Classification
Under certain conditions, some types of wastes are excluded from being considered hazardous (40 CFR Sections 261.3–4). Generators may wish to review these exclusions before working through Part I of this checklist.

Part I-A. Listed Hazardous Waste Determination
The EPA lists some 400 hazardous wastes. Descriptions of listed waste are found in 40 CFR Part 261, Subpart D, Sections 261.31–33. These wastes are often referred to as follows:
- "F" listed waste (waste from nonspecific sources, Section 261.31);
- "K" listed waste (wastes from specific sources, Section 261.32);
- "P" listed waste (unused acutely hazardous off-specification materials as well as container residues and spill residues of these materials, Section 261.33);
- "U" listed waste (unused toxic hazardous off-specification materials as well as container residues and spill residues of these materials, Section 261.33).

QUESTION: Is the waste a listed hazardous waste, or is it mixed with or derived from one? ☐ Yes ☒ No

Part I-B. Characteristic Hazardous Waste Determination
Wastes may be hazardous if they display any of four characteristics: ignitability,corrosiveness, reactivity, or toxicity.

Ignitability
Wastes that are hazardous because they may ignite include the following:
- Liquid wastes (other than those aqueous waste containing less than 24 percent alcohol by volume) that have a flash point less than 60OC (140OF). (The test method is the Pensky-Martens closed cup tester, using the test method specified in ASTM Standard D-93-79 or D-93-80, or a Setaflash closed cup tester, using the test method specified in ASTM Standard D-3278-78.)
- Nonliquid wastes that, under standard temperature and pressure, are capable of causing fire through friction, absorption of moisture, or spontaneous chemical changes and, when ignited, burn so vigorously and persistently that they create a hazard.
- Wastes that meet the definition of an ignitable compressed gas (see 49 CFR Section 173.300).
- Wastes that meet the definition of an oxidizer (see 49 CFR Section 173.151).

QUESTION: Is the waste ignitable according to 40 CFR Section 261.21? ☐ Yes ☒ No

Corrosiveness
Wastes that are hazardous because they are corrosive include the following:
- aqueous wastes with a pH of 2 units or below or of 12.5 units or above;
- liquid wastes that corrode steel at a rate greater than 6.35 mm (0.250 inches) per year.

QUESTION: Is the waste corrosive according to 40 CFR Section 261.22? ☐ Yes ☒ No pH = 2.43

Reactivity
A waste is considered reactive if it meets any of the following conditions:
- It is capable of detonation or explosive decomposition or reaction
  - ▼ at standard temperature and pressure,
  - ▼ if subjected to a strong ignition source, or
  - ▼ if heated under confinement.
- When mixed with water, it is
  - ▼ potentially explosive,
  - ▼ reacts violently, or
  - ▼ generates toxic gases or vapors.
- If a cyanide or sulfide-bearing waste is exposed to pH conditions between 2 and 12.5, it can generate enough toxic gases, vapors, or fumes to present a danger to human health or the environment. Generally, if a waste generates **250** ppm or more of reactive cyanides or **500** ppm or more of reactive sulfides, it is considered a reactive waste. (It should be noted that these levels of reactive compounds are just guidance. Each waste must be evaluated for reactivity on a case-by-case basis).
- It is normally unstable and readily undergoes violent change without detonating.
- It is a forbidden explosive (as defined in 49 CFR 173.51, or a Class A explosive as defined in 49 CFR 173.53).
- It is a Class B explosive (see 49 CFR Section 173.88).

QUESTION: Is the waste reactive according to 40 CFR Section 261.23? ☐ Yes ☒ No

Toxicity
A waste is toxic if the toxicity characteristic leaching procedure (TCLP) shows that a representative sample from the waste contains one or more constituents at or above the levels listed in Table 3-1. The TCLP is described in EPA Method 1311 (SW-846).

Table 3-1 TCLP Regulatory Levels

arsenic —5.0 mg/l	1,4-dichlorobenzene — 7.5 mg/l	methyl ethyl ketone — 200.0 mg/l
barium — 100.0 mg/l	1,2-dichloroethane — 0.5 mg/l	nitrobenzene — 2.0 mg/l
benzene — 0.5 mg/l	1,1-dichloroethylene — 0.7 mg/l	pentachlorophenol — 100.0 mg/l
cadmium — 1.0 mg/l	2,4-dinitrotoluene — 0.13 mg/l	pyridine — 5.0 mg/l
carbon tetrachloride — 0.5 mg/l	endrin — 0.02 mg/l	selenium — 1.0 mg/l
chlordane — 0.03 mg/l	heptachlor (and its epoxide) — 0.008 mg/l	silver — 5.0 mg/l
chlorobenzene — 100.0 mg/l	hexachlorobenzene — 0.13 mg/l	tetrachloroethylene — 0.7 mg/l
chloroform — 6.0 mg/l	hexachlorobutadiene — 0.5 mg/l	toxaphene — 0.5 mg/l
chromium — 5.0 mg/l	hexachloroethane — 3.0 mg/l	trichloroethylene — 0.5 mg/l
o-cresol — 200.0 mg/l	lead — 5.0 mg/l	2,4,5-trichlorophenol — 400.0 mg/l
m-cresol — 200.0 mg/l	lindane — 0.4 mg/l	2,4,6-trichlorophenol — 2.0 mg/l
p-cresol — 200.0 mg/l	mercury — 0.2 mg/l	2,4,5-TP (Silvex) — 1.0 mg/l
cresol — 200.0 mg/l	methoxychlor — 10.0 mg/l	vinyl chloride — 0.2 mg/l
2,4-D — 10.0 mg/l		

QUESTION: Is the waste toxic according to 40 CFR Section 261.24? ☐ Yes ☒ No

Review of Checklist Part I—Hazardous Waste
IF the answer to any of the preceding questions in Part I is "Yes,"
THEN the waste is HAZARDOUS; PROCEED to Chapter 4.

IF the answers are "No" to all the preceding questions, AND the waste is NONINDUSTRIAL, THEN STOP here.	IF the answers are "No" to all of the preceding questions, AND the waste is INDUSTRIAL, THEN PROCEED to Part II.

Part II: Nonhazardous Industrial Waste Classes 1 & 2

The determination in this part of the checklist applies only to nonhazardous industrial waste—see figure 1 in Chapter 1. (This part of the checklist is based on regulations found in 30 TAC Sections 335.505–06 and 335.508).

IF the answer to any of the **un-numbered** questions in this part of the checklist is "Yes,"
THEN the nonhazardous industrial waste is a Class 1 waste.
IF all the answers to the **un-numbered** questions in this part are "No,"
THEN the industrial waste is a Class 2 waste.

Generator's Self-Classification

QUESTION: Has the generator chosen to classify its nonhazardous waste as Class 1? ☒ Yes ☐ No

Container Waste
IF the waste is a container, greater than 5 gallons in holding capacity, which has held
▼ a hazardous substance (as defined in 40 CFR Part 302 and listed in Appendix A of this guidance document),
▼ a hazardous waste (including acutely hazardous wastes),
▼ a Class 1 waste, and/or
▼ a material that would be classified as a hazardous or
Class 1 waste if disposed of,

THEN answer questions 1 and 2. (Please note that containers that have held acutely hazardous wastes must be triple-rinsed before they can be classified as empty).
IF these conditions are not present in your situation,
THEN proceed to the next un-numbered question.

1. Has the container had all its residues removed? ☐ Yes ☐ No
2. Has the container been rendered unusable? ☐ Yes ☐ No

QUESTION: Are *any* of the answers to questions (1) or (2) above "NO"? ☐ Yes ☒ No

Regulated Asbestos-Containing Material (RACM)

QUESTION: Does the waste contain asbestos material identified as RACM, per 40 CFR Part 61? * ☐ Yes ☒ No

Polychlorinated Biphenyls (PCBs)

QUESTION: Is the waste contaminated by a material that originally contained 50 or more parts per million (ppm) total PCBs? * ☐ Yes ☒ No

QUESTION: Does the waste contain 50 or more ppm PCBs?* ☐ Yes ☒ No

Petroleum Substance Waste
1. Is your waste specifically identified as a *petroleum substance* (see Chapter 8, Definitions of Terms) or contaminated with a material identified as a petroleum substance waste? ☐ Yes ☒ No
2. Does the waste contain more than 1,500 ppm total petroleum hydrocarbons (TPH)? ☐ Yes ☒ No

QUESTION: Are the answers to both of the numbered questions above "Yes"? (If one or both of the answers are "No," enter "No" for this question.) ☐ Yes ☒ No
"New Chemical Substance"
See "new chemical substances wastes" in Chapter 8, Definitions and Terms, for a description of how this particular type of waste may be classified as Class 2 or 3.

QUESTION: Is the waste from the production of a "new chemical substance," as defined by the federal Toxic Substances Control Act, 15 U.S.C.A. Section 2602(9)? ☐ Yes ☐ No

Out-of-State Origin
See "wastes generated out-of-state" in Chapter 8, Definitions of Terms, for details on how this particular type of waste may be classified as Class 2 or 3.

QUESTION: Is the waste generated outside Texas? ☐ Yes ☒ No

Constituent Levels and Specified Properties for Nonhazardous Industrial Class 1 Wastes

QUESTION: If the waste is a liquid, does it have a flash point of less than 65.6C (150F)? * ☐ Yes ☒ No

QUESTION: Is the waste a solid or semi-solid that—under conditions normally encountered in storage, transportation, and disposal—

■ is liable to cause fires through friction or through retained heat from manufacturing or processing; or
■ can be ignited readily, and when ignited burns so vigorously and persistently as to create a serious hazard? ☐ Yes ☐ No

QUESTION: Is the waste a semi-solid or solid that, when mixed with an equivalent weight of ASTM Type II laboratory distilled or deionized water, produces a solution with a pH of 2 or less or 12.5 or more? ☐ Yes ☒ No
(***Exception:*** for solidified, stabilized, encapsulated, or otherwise chemically bound wastes, an exception is provided in 30 TAC Section 335.505(3))

QUESTION: Does the waste leach Class 1 toxic constituents at or above the levels listed in Table 1, Appendix 1 of Chapter 335 Subchapter R when submitted to the TCLP? * ☐ Yes ☒ No

Where matrix interferences of the waste cause the Practical Quantitation Limit (PQL) of the specific analysis to be greater than the Maximum Concentration listed in Table 1, Appendix 1 of 30 TAC Chapter 335 Subchapter R, then the achievable PQL becomes the Maximum Concentration, provided that the generator maintains documentation that satisfactorily demonstrates to the TCEQ that lower levels of quantitation of a sample are not possible.) A satisfactory demonstration includes the results from the analysis of the waste for that specific constituent by a laboratory using an appropriate method found in *Test Methods for the Evaluation of Solid Waste, Physical/Chemical Methods* (EPA SW-846); *Methods or Chemical Analysis of Water and Wastes* (EPA-600 series); *Standard Methods for the Examination of Water and Wastewater*; *American Society for Testing and Materials (ASTM) Standard Methods*; or an equivalent method approved by the TCEQ.

Lack of Class 2 or 3 Information

QUESTION: Is information lacking that demonstrates the waste belongs in Class 2 or 3? ☐ Yes ☒ No **Self-Classify to Class 1**

Review of Checklist Part II:
Class 1 or 2 Nonhazardous Industrial Waste

IF the answer to any of the preceding **un-numbered** questions in Part II is "Yes,"
THEN the nonhazardous industrial waste is a Class 1 waste.

IF the answers are "No" to all the preceding **un-numbered** questions in Part II,
THEN the industrial waste is a Class 2 waste.

NALCO

MATERIAL SAFETY DATA SHEET

PRODUCT

AEROCOTE 3

EMERGENCY TELEPHONE NUMBER(S)

(800) 424-9300 (24 Hours) CHEMTREC

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : **AEROCOTE 3**

COMPANY IDENTIFICATION : Nalco Company
1601 W. Diehl Road
Naperville, Illinois
60563-1198

EMERGENCY TELEPHONE NUMBER(S) : (800) 424-9300 (24 Hours) CHEMTREC

NFPA 704M/HMIS RATING
HEALTH : 2 / 2 FLAMMABILITY : 0 / 0 INSTABILITY : 0 / 0 OTHER :
0 = Insignificant 1 = Slight 2 = Moderate 3 = High 4 = Extreme

2. COMPOSITION/INFORMATION ON INGREDIENTS

Our hazard evaluation has identified the following chemical substance(s) as hazardous. Consult Section 15 for the nature of the hazard(s).

Hazardous Substance(s)	CAS NO	% (w/w)
Zinc Nitrate	7779-88-6	5.0 - 10.0
Zinc Dihydrogen Phosphate	13598-37-3	5.0 - 10.0
Phosphoric Acid	7664-38-2	5.0 - 10.0
Nickel Nitrate	13138-45-9	1.0 - 5.0

3. HAZARDS IDENTIFICATION

****EMERGENCY OVERVIEW****

WARNING
Irritating to eyes and skin. May cause sensitization by skin contact.
Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water.
Wear suitable protective clothing.
Not flammable or combustible.

PRIMARY ROUTES OF EXPOSURE :
Eye, Skin

HUMAN HEALTH HAZARDS - ACUTE :

EYE CONTACT :
Can cause moderate irritation.

EPAHO103001570

SKIN CONTACT :
Can cause moderate irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

INGESTION :
Not a likely route of exposure. There may be irritation to the gastro-intestinal tract.

INHALATION :
Not a likely route of exposure. No adverse effects expected.

SYMPTOMS OF EXPOSURE :
Acute :
A review of available data does not identify any symptoms from exposure not previously mentioned.
Chronic :
A review of available data does not identify any symptoms from exposure not previously mentioned.

4. FIRST AID MEASURES

EYE CONTACT :
Immediately flush eye with water for at least 15 minutes while holding eyelids open. If symptoms develop, seek medical advice.

SKIN CONTACT :
Immediately flush with plenty of water for at least 15 minutes. If symptoms develop, seek medical advice.

INGESTION :
Do not induce vomiting without medical advice. If conscious, washout mouth and give water to drink. If reflexive vomiting occurs, rinse mouth and repeat administration of water. Get medical attention.

INHALATION :
Remove to fresh air, treat symptomatically. If symptoms develop, seek medical advice.

NOTE TO PHYSICIAN :
Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

5. FIRE FIGHTING MEASURES

FLASH POINT : None

EXTINGUISHING MEDIA :
Not expected to burn. Use extinguishing media appropriate for surrounding fire.

FIRE AND EXPLOSION HAZARD :
Not flammable or combustible.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTING :
In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit.

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6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS :
Restrict access to area as appropriate until clean-up operations are complete. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal Protection). Stop or reduce any leaks if it is safe to do so. Ventilate spill area if possible. Ensure clean-up is conducted by trained personnel only. Do not touch spilled material. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Notify appropriate government, occupational health and safety and environmental authorities.

METHODS FOR CLEANING UP :
SMALL SPILLS: Soak up spill with absorbent material. Place residues in a suitable, covered, properly labeled container. Wash affected area. LARGE SPILLS: Contain liquid using absorbent material, by digging trenches or by diking. Reclaim into recovery or salvage drums or tank truck for proper disposal. Clean contaminated surfaces with water or aqueous cleaning agents. Contact an approved waste hauler for disposal of contaminated recovered material. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations).

ENVIRONMENTAL PRECAUTIONS :
Do not contaminate surface water.

7. HANDLING AND STORAGE

HANDLING :
Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Do not breathe vapors/gases/dust. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Ensure all containers are labelled.

STORAGE CONDITIONS :
Store in suitable labelled containers. Store the containers tightly closed. Store separately from bases.

UNSUITABLE CONSTRUCTION MATERIAL :
Mild steel

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS :
Available exposure limits for the substance(s) are shown below.

ACGIH/TLV :

Substance(s)	
Phosphoric Acid	TWA: 1 mg/m3 STEL: 3 mg/m3

OSHA/PEL :

Substance(s)	
Phosphoric Acid	TWA: 1 mg/m3 STEL: 3 mg/m3

EPAHO103001572

ENGINEERING MEASURES :
General ventilation is recommended.

RESPIRATORY PROTECTION :
Respiratory protection is not normally needed. If significant mists, vapors or aerosols are generated an approved respirator is recommended. An organic vapor cartridge with dust/mist prefilter or supplied air may be used. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection.

HAND PROTECTION :
Nitrile gloves, Neoprene gloves, PVC gloves, Rubber gloves, Butyl gloves

SKIN PROTECTION :
Wear impervious apron and boots.

EYE PROTECTION :
Wear chemical splash goggles.

HYGIENE RECOMMENDATIONS :
Keep an eye wash fountain available. Keep a safety shower available. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Liquid
APPEARANCE	Green
ODOR	None

SPECIFIC GRAVITY	1.25 @ 77 °F / 25 °C
DENSITY	10.39 lb/gal
SOLUBILITY IN WATER	Complete
pH (100 %)	< 1
FREEZING POINT	10 °F / -12.1 °C
BOILING POINT	212 °F / 100 °C

Note: These physical properties are typical values for this product and are subject to change.

10. STABILITY AND REACTIVITY

STABILITY :
Stable under normal conditions.

HAZARDOUS POLYMERIZATION :
Hazardous polymerization will not occur.

EPAHO103001573

CONDITIONS TO AVOID :
None known

MATERIALS TO AVOID :
Bases Contact with strong alkalies (e.g. ammonia and its solutions, carbonates, sodium hydroxide (caustic), potassium hydroxide, calcium hydroxide (lime), cyanide, sulfide, hypochlorites, chlorites) may generate heat, splattering or boiling and toxic vapors.

HAZARDOUS DECOMPOSITION PRODUCTS :

11. TOXICOLOGICAL INFORMATION

No toxicity studies have been conducted on this product.

SENSITIZATION :
Repeated or prolonged contact may cause skin sensitization.

CARCINOGENICITY :
None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL EFFECTS :

No toxicity studies have been conducted on this product.

If released into the environment, see CERCLA/SUPERFUND in Section 15.

13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it could meet the criteria of a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Before disposal, it should be determined if the waste meets the criteria of a hazardous waste.

Hazardous Waste: D002

Hazardous wastes must be transported by a licensed hazardous waste transporter and disposed of or treated in a properly licensed hazardous waste treatment, storage, disposal or recycling facility. Consult local, state, and federal regulations for specific requirements.

14. TRANSPORT INFORMATION

The information in this section is for reference only and should not take the place of a shipping paper (bill of lading) specific to an order. Please note that the proper Shipping Name / Hazard Class may vary by packaging, properties, and mode of transportation. Typical Proper Shipping Names for this product are as follows.

EPAHO103001574

LAND TRANSPORT :

Proper Shipping Name :	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Technical Name(s) :	PHOSPHORIC ACID, ZINC NITRATE
UN/ID No :	UN 3264
Hazard Class - Primary :	8
Packing Group :	III
Flash Point :	None

AIR TRANSPORT (ICAO/IATA) :

Proper Shipping Name :	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Technical Name(s) :	PHOSPHORIC ACID, ZINC NITRATE
UN/ID No :	UN 3264
Hazard Class - Primary :	8
Packing Group :	III
IATA Cargo Packing Instructions :	820
IATA Cargo Aircraft Limit :	60 L (Max net quantity per package)

MARINE TRANSPORT (IMDG/IMO) :

Proper Shipping Name :	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Technical Name(s) :	PHOSPHORIC ACID, ZINC NITRATE
UN/ID No :	UN 3264
Hazard Class - Primary :	8
Packing Group :	III

15. REGULATORY INFORMATION

NATIONAL REGULATIONS, USA :

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200 :
Based on our hazard evaluation, the following substance(s) in this product is/are hazardous and the reason(s) is/are shown below.

Zinc Nitrate : Eye irritant, Respiratory irritant, Skin irritant
Zinc Dihydrogen Phosphate : Irritant
Phosphoric Acid : Corrosive
Nickel Nitrate : Irritant, Sensitizer, Oxidizer

CERCLA/SUPERFUND, 40 CFR 117, 302 :
Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312, AND 313 :

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355) :
This product does not contain substances listed in Appendix A and B as an Extremely Hazardous Substance.

EPAHO103001575

SECTIONS 311 AND 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370) :
Our hazard evaluation has found this product to be hazardous. The product should be reported under the following indicated EPA hazard categories:

X	Immediate (Acute) Health Hazard
X	Delayed (Chronic) Health Hazard
	Fire Hazard
	Sudden Release of Pressure Hazard
	Reactive Hazard

Under SARA 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are: 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372) :
This product contains the following substance(s), (with CAS # and % range) which appear(s) on the List of Toxic Chemicals

Hazardous Substance(s)	CAS NO	% (w/w)
Zinc Dihydrogen Phosphate	13598-37-3	5.0 - 10.0
Nickel Nitrate	13138-45-9	1.0 - 5.0

TOXIC SUBSTANCES CONTROL ACT (TSCA) :

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 / formerly Sec. 307, 40 CFR 116.4 / formerly Sec. 311 :
This product contains the following substances listed in the regulation:

Substance(s)	Citations
• Zinc Dihydrogen Phosphate • Nickel Nitrate	Sec. 307
• Phosphoric Acid	Sec. 311

CLEAN AIR ACT, Sec. 111 (40 CFR 60, Volatile Organic Compounds), Sec. 112 (40 CFR 61, Hazardous Air Pollutants), Sec. 602 (40 CFR 82, Class I and II Ozone Depleting Substances) :
None of the substances are specifically listed in the regulation.

CALIFORNIA PROPOSITION 65 :
This product does not contain substances which require warning under California Proposition 65.

MICHIGAN CRITICAL MATERIALS :
This product contains the following substances listed in the regulation:

Nickel Nitrate

EPAHO103001576

STATE RIGHT TO KNOW LAWS :
The following substances are disclosed for compliance with State Right to Know Laws:

Phosphoric Acid	7664-38-2
Nickel Nitrate	13138-45-9

NATIONAL REGULATIONS, CANADA :

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (WHMIS) :
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS CLASSIFICATION :
D2B - Materials Causing Other Toxic Effects - Toxic Material

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) :
The substances in this preparation are listed on the Domestic Substances List (DSL), are exempt, or have been reported in accordance with the New Substances Notification Regulations.

16. OTHER INFORMATION

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to insure safe workplace operations. Please consult your local sales representative for any further information.

REFERENCES

Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices, American Conference of Governmental Industrial Hygienists, OH., (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.

Hazardous Substances Data Bank, National Library of Medicine, Bethesda, Maryland (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man, Geneva: World Health Organization, International Agency for Research on Cancer.

Integrated Risk Information System, U.S. Environmental Protection Agency, Washington, D.C. (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

Annual Report on Carcinogens, National Toxicology Program, U.S. Department of Health and Human Services, Public Health Service.

Title 29 Code of Federal Regulations, Part 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA), (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.

EPAHO103001577

Registry of Toxic Effects of Chemical Substances, National Institute for Occupational Safety and Health, Cincinnati, OH, (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

Ariel Insight# (An integrated guide to industrial chemicals covered under major regulatory and advisory programs), North American Module, Western European Module, Chemical Inventories Module and the Generics Module (Ariel Insight# CD-ROM Version), Ariel Research Corp., Bethesda, MD.

The Teratogen Information System, University of Washington, Seattle, WA (TOMES CPS# CD-ROM Version), Micromedex, Inc., Englewood, CO.

Prepared By : Product Safety Department
Date issued : 01/25/2006
Version Number : 1.2

EPAHO103001578

Bomac Contractors 2200
#2200

EPAHO103001579

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/18/2007**

Dear **Ron Kohler**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2200

Generator: Bomac Contractors
Address: 1020 Lidbergh
Beaumont, TX 77707

Waste Information

Name of Waste: HBS concrete bonder
TCEQ Waste Code #: CESQ1191
Container Type:
Detailed Description of Process Generating Waste:
Additive for concrete
Color: milky white **Odor:** mild, sweet **pH:** 6
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company : Bomac Contractors
Address : 1020 Lidbergh
City, State, Zip : Beaumont TX 77707
Contact : Henry Goss Title :
Phone No : 409-842-2125 Fax :
24 / HR Phone :
U.S EPA I.D No : N/A
State I.D : N/A SIC Code N/A

SECTION 2: Billing Information

Company : Select Environmental
Address : 223 McCarty Suite
City, State, Zip : Houston TX 77029
Contact : Title :
Phone No : Fax :

SECTION 3: General Description of the Waste Additive for concrete

Name of Waste : HBS Concrete Border

Physical State : ☑ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color : milky white Odor : mild, sweet
Specific Gravity (Water=1) : 1.09 Density : 9.2 lbs / gal
Layers : ☒ Single-Phas ☐ Multi-Phase
Container Type : ☑ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size : 55
Number Of Units : 50
Texas State Waste Code No : CESQ 1191
Proper U.S. State Waste Code No : Non RCRA/non Regulated material
Class : N/A UN/NA : N/A PG : N/A RQ : N/A

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>140	6	N/A mg/l	N/A mg/l	40 %
Oil and Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
N/A mg/l	N/A mg/l	N/A mg/l	N/A mg/l	N/A mg/l

EPAHO103001581

SECTION 4: Physical and Chemical Data

~~Residual vinyl < 0.3%~~

HBS Concrete Border 100 %

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generators knowledge

TCLP Metals : ✓

TCLP Volatilies : ✓

TCLP Semi-Volatiles : ✓

Reactivity : ✓

Corrosivity : ✓

Ignitability : ✓

SECTION 9: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☐ analytical data. I hereby cerity that th above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature : [signature] Date : 5-17-07

Printed Name / Title : Henry Goss

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer : [signature]

Date : 5-18-07 Status : Approved Rejected

Approval Number : 2200

Special Pricing / Analytical Info:

$65/dm + trans

$67/Hr

Recommended Treatment:

IL

EPAHO103001582

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge ? ☐ YES ☒ NO

If 'YES', complete this section

PLEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE

Matals Subcategory: ***Subpart A***

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phospha
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: ***Subpart B***

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory ***Subpart C***

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bering wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001583

MATERIAL SAFETY DATA SHEET

ChemSystems, Inc.

Jancik Concrete Specialties	Houston Building Supply
10110 Genard Road	Phone 713-329-9066
Houston, TX 77041	FAX 713-329-9065

I. Product Identification

Product name . . . . . HBS Concrete Bonder
Product description . . . . . Mixture of acrylic and vinyl acetate polymers, water, surfactant and preservative
DOT Class . . . . . Not regulated

II. Hazardous Ingredients

Ingredient	Typical Amount	ACGIH TLV	OSHA PEL	CAS Number
Residual vinyl acetate monomer	<0.3%	10 ppm	10 ppm	108-05-4

Unlisted ingredients are not "hazardous" per the OSHA standard and/or are present at less than the allowable levels.

III. Hazard Identification

No specific warnings for normal use.
Possible cancer hazard Vinyl acetate monomer may cause cancer.

IV. Physical Properties

Appearance . . . . . Liquid
Color . . . . . Milky white
Odor . . . . . Mild, sweet
pH . . . . . Circa 6
Melting point . . . . . Not established
Boiling point . . . . . >212°F
Density . . . . . Approximately 1.1gm/cc
Solubility in water . . . . . Totally miscible
% Volatile (by weight) . . . . . Approximately 40%

V. Fire and Explosion Data

Flash point (OC) . . . . . Non combustible
Extinguishing media . . . . . Non-flammable in liquid state; use water spray, foam, dry chemical or carbon dioxide for dried product.
Special fire fighting procedures . . . . . Wear self contained breathing apparatus and full protective gear.
Other . . . . . Incomplete combustion may yield low molecular weight hydrocarbons. Pressure will build up in closed containers if heated.

EPAHO103001584

VI. Reactivity Data

Stability ..... Stable at normal temperatures and pressures
Hazardous decomposition ..... Thermal decomposition may yield acrylic monomers
Hazardous polymerization ..... Product will not polymerize.

VII. Human Health Data

Primary routes of entry ..... Eye & skin contact & inhalation
Effects of over exposure

Acute - None known other than irritation of the eyes throat and nasal passages due to exposure to concentrations above Permissible levels.

Chronic -No anticipated chronic effects. Overexposure to vinyl acetate monomers is not expected to occur during normal handling and use.

Medical conditions aggravated by exposure - None known

Carcinogenicity ..... Vinyl acetate monomer is listed as a potential carcinogen by IARC.

VII. Emergency and First Aid Procedures

Eye Contact - Flush with large amounts of water for at least 15 minutes. If irritation persists, consult a physician.

Skin contact - Wash with soap and water. Consult physician if irritation persists. Launder contaminated clothing before reuse.

Inhalation - Move subject to fresh air. If not breathing, give artificial respiration. If breathing is difficult, call a physician.

Ingestion - Give 2 glasses of water to drink. Do not induce vomiting. Consult a physician

IX. Spill Procedures

Spills -Use caution, floor may be slippery. Contain spills immediately with inert materials. Transfer liquid and diking materials to a separate container for recovery or disposal.

CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

Waste Disposal -Solidify and dispose in an approved landfill, in accordance with federal, state and local regulations.

X. Safe Handling Data

Respiratory protection

If airborne concentrations are :

<250ppm ..... None required
>250<1000ppm ... Wear MSHA/NIOSH approved, full-face piece, air-purifying respirator.
>1000ppm ..... Wear MSHA/NIOSH approved, self-contained breathing apparatus in the pressure demand mode.

Eye protection ..... Use chemical, splash goggles
Skin protection ..... Wear neoprene gloves and long sleeved
Ventilation ..... Local exhaust sufficient to keep airborne concentrations < 250 ppm
Other ..... Have eye washes available where eye contact might occur. Wash thoroughly after handling and keep away from food and beverages.

This information is furnished without warranty, expressed or implied, except that it is accurate to the best of our knowledge. ChemSystems Inc. assumes no legal responsibility for use or reliance upon these data.

3/97

EPAHO103001585

ChemSystems, Inc.
10110 Conard Road • Houston, TX 77041

Janaik Concrete Specialties
Phone: 713-329-9066 or 800-545-9827

Houston Building Supply
FAX 713-329-9065

HBS CONCRETE BONDER

TECHNICAL DATA

PRODUCT DESCRIPTION:

HBS Concrete Bonder is a blend of unique, high molecular weight, acrylic and vinyl polymers, specially formulated to give optimum strength, adhesion and durability. **HBS Concrete Bonder** has a high viscosity and is VOC compliant and non-flammable. It is designed to improve the adhesive and physical properties of most cementitious materials.

PRIMARY USES:

Admixture - **HBS Concrete Bonder** may be used as an admixture for concrete, mortar, plaster, stucco, underlayments and most cementitious materials. As an admixture, HBS Concrete Bonder will create a stronger, more flexible end product that, when cured, will exhibit superior adhesion to other cementitious products.

Bonding Agent / Primer - Use **HBS Concrete Bonder**, undiluted, as a primer to promote better adhesion for overpours, underlayments and patches.

BENEFITS:

* Improved Adhesion
* Improved Bond Strength
* Increased Tensile & Flexural Strength
* Greater Flexibility & Toughness
* Greater Impact Resistance
* Improved Freeze/Thaw Durability

SURFACE PREPARATION:

To insure a proper bond of patches, grout and overpours, the surface must be clean of all loose materials and contaminates. This includes all dust, dirt, grease, curing compounds or sealers. The surface should have a rough finish. Acid may be required to etch a smooth troweled surface, but it is not an effective method of removing most sealers. Usually a hot solvent works well, but you should determine what material was used on the surface and consult the manufacturer of the product for the best removal method. A blast track type removal system works best for all types of contaminants. Once thoroughly cleaned, the surface should be dampened with clean water. Temperature (both surface and air) should be above 40 °F.

OVERPOURS:

Apply the undiluted bonding agent to the existing surface and allow it to become tacky. The weather and outside temperature affect the drying time. **Do not allow the bonder to dry completely before placing concrete.** If bonder should dry before you can place the concrete, re-prime the surface.

EPAHO103001586

HBS CONCRETE BONDER

APPLICATION DATA

SUGGESTED MIXES:

LIGHT WORK:
To increase flexibility, add 1 pint bonder per 94 lb bag of portland cement, to the mixing water.

MEDIUM WORK:
To reduce cracking and improve impact resistance, add 1 quart bonder per 94 lb bag of portland cement, to the mixing water.

HEAVY WORK:
To increase impact resistance, flexibility and tensile strength, add 2 quarts bonder per 94 lb bag of portland cement, to the mixing water.

TYPICAL PHYSICAL PROPERTIES:
Density = Approximately 9.2 Lbs Per Gallon
Solids Content = Approximately 40%

PACKAGING:
HBS Concrete Bonder is supplied in 1 (4 per case), 5, 55 and 275 gallon containers.

TOPPING:

Cement	94 LB.
Sand	282 LB.
Bonder	1 TO 2 GAL.
Water	As needed.

GROUT:

Cement	94 LB.
Sand	94 LB.
Bonder	2 GAL.
Water	2 GAL.

WARRANTIES:

CSI warrants that **HBS Concrete Bonder** meets the manufacturers specifications in effect on the day of shipment but expressly disclaims any warranties, expressed or implied, as to the suitability of the product for any specific purpose. It is the purchasers responsibility to test and determine the suitability for the intended use.

MANUFACTURED BY:

ChemSystems, INC.
10110 Genard Rd.
Houston, TX. 77041
dba:
Jancik Concrete Specialties
Houston Building Supply

PHONE: 713-329-9066
800-545-9827
FAX: 713-329-9065

WARNING!
IRRITATING TO EYES AND SKIN. DO NOT TAKE INTERNALLY
Before handling, read the
Material Safety Data Sheet
Keep From Freezing

The information contained in this brochure is, to the best of our knowledge, true and accurate but all recommendations or suggestions are made without guarantee. Since the use of our products is beyond our control, ChemSystems, Inc. disclaims any liability incurred in connection with the use of our products and any information contained herein. No person is authorized to make any statement or recommendation not contained herein, and any such statement or recommendation so made shall not bind the company. Furthermore, nothing contained herein shall be construed as a recommendation to use any product in conflict with existing patents covering any material or its use, and no license implied or in fact is granted herein under the claims of any patent.

1/99

EPAHO103001587

2201 Hitemco - Lozano
#2201

EPAHQ1030015

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/21/2007**

Dear **John Winne**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2201

Generator: Hitemco Southwest-Lozano
Address: 6421 Lozano
Houston, TX 77041

Waste Information

Name of Waste: Water based latex paint and oil based paints
TCEQ Waste Code #: CESQ2091
Container Type: pallet
Detailed Description of Process Generating Waste:
Unused out of spec product
Color: various **Odor:** latex like **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Hitemco Southwest		
Address:	6421 Lozano		
City, State, Zip:	Houston, TX 77041		
Contact:	John Winne	**Title:**	Sr. Developmental Engineer
Phone No:	713-466-9655	**Fax No:**	713-466-1762
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	CESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Water Based Latex Paint and oil based paints
Detailed Description of Process Generating Waste: Unused out of spec product

Physical State: ☒ Liquid ☒ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: Various **Odor:** latex like

Specific Gravity (water=1): 1.2 **Density:** 10 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☒ Other (explain)
Container Size: 1-pallet

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 1 **Other:**
Texas State Waste Code No: CESQ2091
Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>140	neutral	0mg/l	0mg/l	0-100%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	<1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water Based Latex Paint	20-60	%
Oil Based Enamel Paint	20-60	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	X
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 17 May 07

Printed Name/Title: John Winne / Director of Tech

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert A Reynolds

Date: 5-21-07 Approved Rejected

Approval Number: 2201

Additional Information: 125.00 / Pallet / yd + Trucks

OSL

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

15 RT

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : GRAY SPRAY/ROLL ENAMEL
IDENTIFICATION NUMBER: WSR360 DATE PRINTED: 01/10/03
PRODUCT USE/CLASS : LIQUID PAINT

SUPPLIER:
WATSON COATINGS, INC.
P. O. BOX 35067
325 PAUL AVENUE
ST. LOUIS, MO 63135

EMERGENCY TELEPHONE:800-424-9300
24 HOUR EMERGENCY HOTLINE

MANUFACTURER:
WATSON COATINGS, INC.
P. O. BOX 35067
325 PAUL AVENUE
ST. LOUIS, MO 63135

EMERGENCY TELEPHONE:800-424-9300
24 HOUR EMERGENCY HOTLINE

PREPARER: Gene Halet, PHONE: 314-521-2000, PREPARE DATE: 08/16/02

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT % EQUAL TO
01	2-BUTOXYETHANOL	111-76-2	7.1 %
02	2-BUTANOL	78-92-2	5.3 %
03	ALIPHATIC HYDROCARBON	8052-41-3	0.1 %

	EXPOSURE LIMITS					
	ACGIH		OSHA		COMPANY	
ITEM	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CEILING	TLV-TWA	SKIN
01	25 ppm	N.E.	50 ppm	N.E.	25 ppm	YES
02	100 ppm	N.E.	150 ppm	N.E.	N.E.	NO
03	100 ppm	N.E.	500 ppm	N.E.	N.E.	NO

(See Section 16 for abbreviation legend)

SECTION 3 - HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***: Harmful if inhaled. Harmful if swallowed. Causes eye irritation. May cause allergic skin reaction. Liquid coating and vapors may be combustible at elevated temperatures.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.

(Continued on Page 2)

SECTION 3 - HAZARDS IDENTIFICATION

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Causes skin irritation. Allergic reactions are possible. Wash contaminated areas with plenty of soap and water. Remove contaminated clothing and footwear, and clean thoroughly before reuse.

EFFECTS OF OVEREXPOSURE - INHALATION: Prolonged inhalation may be harmful.

EFFECTS OF OVEREXPOSURE - INGESTION: Irritating to mouth, throat and stomach.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: No Information.

PRIMARY ROUTE(S) OF ENTRY: SKIN CONTACT SKIN ABSORPTION INHALATION INGESTION EYE CONTACT

SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT: Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

FIRST AID - SKIN CONTACT: Wash with soap and water. Get medical attention if irritation develops or persists.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

FIRST AID - INGESTION: If swallowed, DO NOT induce vomiting, keep at rest and get prompt medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 185 F
(SETAFLASH CLOSED CUP)

LOWER EXPLOSIVE LIMIT: 1.7 %
UPPER EXPLOSIVE LIMIT: 9.8 %

AUTOIGNITION TEMPERATURE: OVER 800°F

EXTINGUISHING MEDIA: ALCOHOL FOAM CO2 DRY CHEMICAL FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustible Liquid. Can form explosive mixtures at temperatures at or above the flashpoint.

SPECIAL FIREFIGHTING PROCEDURES: Containers can build up pressure if exposed to heat (fire). As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

(Continued on Page 3)

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Avoid runoff into storm sewers and ditches which lead to waterways.

SECTION 7 - HANDLING AND STORAGE

HANDLING: Wash thoroughly after handling.

STORAGE: Keep from freezing. Keep container closed when not in use.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Good general ventilation should be sufficient to control airborne levels.

RESPIRATORY PROTECTION: Provide sufficient ventilation to keep vapor concentration below the given TLV and LEL levels. Provide sufficient ventilation to keep vapor concentrations below the given TLV and LEL levels. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister is recommended where airborne concentrations are expected to exceed exposure limits.

SKIN PROTECTION: Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent). Gloves are required for prolonged or repeated contact. Refer to safety equipment supplier for effective glove recommendations.

EYE PROTECTION: Wear safety glasses with side shields (or goggles) and a face shield.

OTHER PROTECTIVE EQUIPMENT: Store contaminated clothing in well ventilated cabinets or closed containers, and wash thoroughly before reuse. Safety shower and eyebath should be in areas of use.

HYGIENIC PRACTICES: Wash hands before eating. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE	: 208 - 381 F	VAPOR DENSITY	: Is heavier than air
ODOR	: MILD	ODOR THRESHOLD	: HIGH
APPEARANCE	: GRAY	EVAPORATION RATE	: Is slower than Ether
SOLUBILITY IN H2O	: YES		
FREEZE POINT	: 32°F	SPECIFIC GRAVITY	: 1.0750
VAPOR PRESSURE	: 0.6mm hg	pH @ 100.0 %	: 8.5
PHYSICAL STATE	: LIQUID	VISCOSITY	: 90 - 100 KU

(Continued on Page 4)

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

COEFFICIENT OF WATER/OIL DISTRIBUTION:

(See Section 16 for abbreviation legend)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Avoid opening drums in unventilated areas to avoid concentrated ammonia vapors. Do not store in freezing temperatures.

INCOMPATIBILITY: Do NOT try to reduce with organic solvents, as the material will gell.

HAZARDOUS DECOMPOSITION PRODUCTS: This material will not burn until the water has boiled off. At that time, the material will emit carbon monoxide, carbon dioxide and hydrocarbons.

HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.

STABILITY: This product is stable under normal storage conditions.

SECTION 11 - TOXICOLOGICAL PROPERTIES

No product or component toxicological information is available.

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Do not flush into sewers or waterways. Any spills must be cleaned up and disposed of according to local, state and federal regulations.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Consult an expert on disposal of recovered materials, and ensure conformity to local, state and federal regulations.

SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: NON-HAZARDOUS

DOT TECHNICAL NAME: NON-HAZARDOUS

DOT HAZARD CLASS: NON-HAZARDOUS HAZARD SUBCLASS:

DOT UN/NA NUMBER: PACKING GROUP: RESP. GUIDE PAGE:

(Continued on Page 5)

SECTION 14 - TRANSPORTATION INFORMATION

SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200)

CERCLA - SARA HAZARD CATEGORY:
This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

FIRE HAZARD

SARA SECTION 313:
This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

---------- CHEMICAL NAME ----------	CAS NUMBER	WT/WT %
2-BUTOXYETHANOL	111-76-2	7.1 %
2-BUTANOL	78-92-2	5.3 %

U.S. STATE REGULATIONS: AS FOLLOWS -

NEW JERSEY RIGHT-TO-KNOW:
The following materials are non-hazardous, but are among the top five components in this product:

---------- CHEMICAL NAME ----------	CAS NUMBER
WATER	
ALKYD RESIN	
TITANIUM DIOXIDE	13463-67-7

PENNSYLVANIA RIGHT-TO-KNOW:
The following non-hazardous ingredients are present in the product at greater than 3%:

---------- CHEMICAL NAME ----------	CAS NUMBER
WATER	
ALKYD RESIN	
TITANIUM DIOXIDE	13463-67-7

CALIFORNIA PROPOSITION 65:
WARNING: The chemical(s) noted below and contained in this product, are known to the state of California to cause cancer, birth defects or other reproductive harm:

---------- CHEMICAL NAME ----------	CAS NUMBER
No Proposition 65 chemicals exist in this product.	

(Continued on Page 6)

SECTION 15 - REGULATORY INFORMATION

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for use of the 16 headings.

CANADIAN WHMIS CLASS: No information available.

SECTION 16 - OTHER INFORMATION

HMIS RATINGS - HEALTH: 1 FLAMMABILITY: 2 REACTIVITY: 0

PREVIOUS MSDS REVISION DATE: 12/20/01

VOLATILE ORGANIC COMPOUNDS (VOCS): 2.64 lbs/gal, 316 grams/ltr

LEGEND: N.A. - Not Applicable, N.E. - Not Established,
N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

<END OF MSDS>

2202

Jones Oil
Prof # 2202

EPAHO103001600

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/22/2007**

Dear **Jerry Logan**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2202

Generator: Jones Oil
Address: 4828 North Shepherd
Houston, TX 77018

Waste Information

Name of Waste: Recyclable light ends
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Gasoline mixed with red diesel
Color: red to yellow **Odor:** hydrocarbon **pH:** na
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
Level C PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

DB

SECTION 1: Generator Information

Company:	Jones Oil		
Address:	4828 North Shepherd		
City, State, Zip:	Houston, TX 77018		
Contact:	Richard	**Title:**	Maintenance
Phone No:	713-694-2329	**Fax No:**	713-694-7795
24/hr Phone:	713-545-1187		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Recycleable Light Ends
Detailed Description of Process Generating Waste: Gasoline mixed with red diesel.

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: red to yellow **Odor:** Hydrocarbon

Specific Gravity (water=1): .8-.9 **Density:** 7-8 lbs/gal

Layers: ☐ Single-phase ☒ Multi-phase

Container Type:	☐	**Drum**	☐	**Tote**	☒	**Truck**	☐ **Other (explain)**
Container Size:		____		____		16-1700	____

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: Recyclable
Proper U.S. DOT Shipping Name: Flammable Liquids, nos
Class: 3 **UN/NA:** 1993 **PG:** II **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
<140	Na	Namg/l	Namg/l	0%

Oil&Grease	TOC	Zinc	Copper	Nickel
Namg/l	Namg/l	Namg/l	Namg/l	Namg/l

EPAHO103001602

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Diesel	50-80	%
Gasoline	20-50	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level C PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: N/A **Date:** 05/22/07

Printed Name/Title: No Signature Required

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature]

Date: 5-22-07 (Approved) Rejected

Approval Number: 2202

Process Facility Information:
Pay Customer .15 if CES Trans. .20 if Delivered.

REC

EPAHO103001603

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001604

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001605

2203

Bob Merrill
Prof # 2203

EPAHO10300160

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/22/2007**

Dear **Zac or Dave**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2203

Generator: Bob Merrill
Address: 20203 Morris
Manvel, TX

Waste Information

Name of Waste: Sample well water
TCEQ Waste Code #: CESQ1191
Container Type:
Detailed Description of Process Generating Waste:
Flush from sample well
Color: grey-dark **Odor:** none **pH:** 4-10
Physical State:
Incompatibilities: na
Safety Related Data/Special Handling:
na

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

DB

SECTION 1: Generator Information

Company: Bob Merrell
Address: 20203 Morris
City, State, Zip: Manvel, TX
Contact: David Buchanan Title: HSE
Phone No: 713-899-8155 Fax No:
24/hr Phone: 281-541-4829
U.S. EPA I.D. No: N/A
State I.D. N/A SIC Code: NA

SECTION 2: Billing Information – ☐ Same as Above

Company: CKG Services
Address: 10707 Honea Egypt
City, State, Zip: Montgomery, TX 77316
Contact: Traci Asher Title: Office mgr
Phone No: 936-483-3662 Fax No: 93

SECTION 3: General Description of the Waste

Name of Waste: Sample Well water
Detailed Description of Process Generating Waste: Flush From Sample well

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Gry - Dark Odor: No

Specific Gravity (water=1): 1 Density: 8 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55gal

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 3 Other:
Texas State Waste Code No: CESQ1191
Proper U.S. DOT Shipping Name: Non RCRA Sample Well Waste water
Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>160	4-10	0 mg/l	0 mg/l	0-1 %

Oil&Grease	TOC	Zinc	Copper	Nickel
<100 mg/l	<500 mg/l	0 mg/l	0 mg/l	0 mg/l

EPAHO103001608

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	99-100 %	
VOC (Solvents	<1	

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

N/A

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

N/A

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

N/A

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ____
TCLP Volatiles: ____
TCLP Semi-Volatiles: ____
Reactivity: ✓
Corrosivity: ✓
Ignitability: ✓

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 5-9-07

Printed Name/Title: _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature] Additional Information: $65/dm

Date: 5-21-07 Approved Rejected

Approval Number: 7203 IL

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☒ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☒ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001610

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☒ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001611

SEVERN TRENT STL

ANALYTICAL REPORT

JOB NUMBER: 325153
Project ID: BOB MERRILL

Prepared For:

Buchanan Environmental Associates
P.O. BOX 14634
Humble, TX 77347-4634

Attention: David Buchanan

Date: 11/14/2006

Signature

Name: Jodi L. Allen

Title: Project Manager II

E-Mail: jallen@stl-inc.com

11/14/06
Date

Severn Trent Laboratories
6310 Rothway Drive
Houston, TX 77040

PHONE: 713-690-4444

TOTAL NO. OF PAGES 22

EPAHO103001612

SEVERN TRENT STL

11/14/2006

David Buchanan
Buchanan Environmental Associates
20406 Perryoak Dr.
Humble, TX 77346

Project : BOB MERRILL
Project No. : 325153
Date Received : 11/03/2006
STL Job : 325153

Dear David Buchanan:

Enclosed are the analytical results for your project referenced above. The following samples are included in the report.

1. MW-2
2. MW-3
3. MW-4
4. MW-5
5. MW-6
6. MW-12
7. MW-13
8. MW-14

All holding times were met for the tests performed on these samples.

Enclosed, please find the Quality Control Summary. All quality control results for the QC batch that are applicable to the sample(s) are acceptable except as noted in the QC batch reports.

The test results in this report meet all NELAP requirements for STL Houston's NELAP accredited parameters. Any exceptions to NELAP requirements will be noted and included in a case narrative as a part of this report.

If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting Severn-Trent Laboratories to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

Sincerely,

Jodi L. Allen
Project Manager

EPAHO103001613

LABORATORY TEST RESULTS

Job Number: 325153

Date:11/14/2006

CUSTOMER: Buchanan Environmental Associates

PROJECT: BOB MERRILL

ATTN: David Buchanan

Customer Sample ID: MW-12
Date Sampled.....: 11/03/2006
Time Sampled.....: 13:40
Sample Matrix.....: Water

Laboratory Sample ID: 325153-6
Date Received.....: 11/03/2006
Time Received.....: 16:50

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 8021B	GC Volatile Organics											
	Methyl tert-Butyl ether, Water	326			4.2	50.0	10.000	ug/L	166116		11/10/06 1331	cad
	Benzene, Water	78.0			0.17	1.00	1.0000	ug/L	165856		11/08/06 1206	cad
	Toluene, Water	2.14			0.19	1.00	1.0000	ug/L	165856		11/08/06 1206	cad
	Ethylbenzene, Water	28.1			0.23	1.00	1.0000	ug/L	165856		11/08/06 1206	cad
	Xylenes (total), Water	8.41			0.56	3.00	1.0000	ug/L	165856		11/08/06 1206	cad

EPAHO103001614

LABORATORY TEST RESULTS

Job Number: 325153

Date:11/14/2006

CUSTOMER: Buchanan Environmental Associates

PROJECT: BOB MERRILL

ATTN: David Buchanan

Customer Sample ID: MW-13
Date Sampled.....: 11/03/2006
Time Sampled.....: 13:10
Sample Matrix.....: Water

Laboratory Sample ID: 325153-7
Date Received.....: 11/03/2006
Time Received.....: 16:50

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 8021B	GC Volatile Organics											
	Methyl tert-Butyl ether, Water	0.42	U		0.42	5.00	1.0000	ug/L	165856		11/08/06 1226	cad
	Benzene, Water	0.17	U		0.17	1.00	1.0000	ug/L	165856		11/08/06 1226	cad
	Toluene, Water	0.19	U		0.19	1.00	1.0000	ug/L	165856		11/08/06 1226	cad
	Ethylbenzene, Water	0.23	U		0.23	1.00	1.0000	ug/L	165856		11/08/06 1226	cad
	Xylenes (total), Water	0.56	U		0.56	3.00	1.0000	ug/L	165856		11/08/06 1226	cad

EPAHO103001615

LABORATORY TEST RESULTS

Job Number: 325153

Date:11/14/2006

CUSTOMER: Buchanan Environmental Associates

PROJECT: BOB MERRILL

ATTN: David Buchanan

Customer Sample ID: MW-14
Date Sampled.....: 11/03/2006
Time Sampled.....: 12:40
Sample Matrix.....: Water

Laboratory Sample ID: 325153-8
Date Received.....: 11/03/2006
Time Received.....: 16:50

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 8021B	GC Volatile Organics											
	Methyl tert-Butyl ether, Water	0.42	U		0.42	5.00	1.0000	ug/L	165856		11/08/06 1246	cad
	Benzene, Water	0.17	U		0.17	1.00	1.0000	ug/L	165856		11/08/06 1246	cad
	Toluene, Water	0.19	U		0.19	1.00	1.0000	ug/L	165856		11/08/06 1246	cad
	Ethylbenzene, Water	0.23	U		0.23	1.00	1.0000	ug/L	165856		11/08/06 1246	cad
	Xylenes (total), Water	0.56	U		0.56	3.00	1.0000	ug/L	165856		11/08/06 1246	cad

EPAHO103001616

QUALITY CONTROL RESULTS

Job Number.: 325153 Report Date.: 11/14/2006

CUSTOMER: Buchanan Environmental Associates PROJECT: BOB MERRILL ATTN: David Buchanan

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: SW-846 8021B Units.....: ug/L Analyst...: cad
Method Description.: GC Volatile Organics Batch(s)...: 165856 166116

LCS	Laboratory Control Sample	BXS102606E	165856-1		11/08/2006	0639

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	56.8490		50.000000		113.7		76-123	
Benzene, Water	52.5078		50.000000		105.0		72-134	
Toluene, Water	52.8949		50.000000		105.8		76-131	
Ethylbenzene, Water	55.0359		50.000000		110.1		75-131	
m,p-Xylene, Water	110.345		100.000000		110.3		75-130	
o-Xylene, Water	54.4993		50.000000		109.0		74-129	
Xylenes (total), Water	164.8443		150.000000		109.9		70-130	
Total BTEX, Water	325.2829		300.000000		108.4		70-130	
Tert-Butyl Methyl Ether Column B, Water	49.4907		50.000000		99.0		76-123	
Benzene Column B, Water	51.6348		50.000000		103.3		72-134	
Toluene Column B, Water	50.9578		50.000000		101.9		76-131	
Ethylbenzene Column B, Water	54.7459		50.000000		109.5		75-131	
m,p-Xylene Column B, Water	105.194		100.000000		105.2		75-130	
o-Xylene Column B, Water	53.9199		50.000000		107.8		74-129	

MB	Method Blank		165856-1		11/08/2006	0659

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	ND							
Benzene, Water	ND							
Toluene, Water	ND							
Ethylbenzene, Water	ND							
m,p-Xylene, Water	ND							
o-Xylene, Water	ND							
Xylenes (total), Water	0.0000							
Total BTEX, Water	0.0000							
Tert-Butyl Methyl Ether Column B, Water	ND							
Benzene Column B, Water	ND							
Toluene Column B, Water	ND							
Ethylbenzene Column B, Water	ND							
m,p-Xylene Column B, Water	ND							
o-Xylene Column B, Water	ND							

MS	Matrix Spike	BXS102606G	325285-1		11/08/2006	0843

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	53.6783		50.000000	ND	107		70-130	
Benzene, Water	53.0441		50.000000	ND	106		70-130	
Toluene, Water	53.5470		50.000000	ND	107		70-130	
Ethylbenzene, Water	54.8623		50.000000	ND	110		70-130	
m,p-Xylene, Water	110.162		100.000000	ND	110		70-130	
o-Xylene, Water	53.6516		50.000000	ND	107		70-130	
Xylenes (total), Water	163.8723		150.000000	0.0000	109		70-130	
Total BTEX, Water	326.4318		300.000000	0.0000	109		70-130	
Tert-Butyl Methyl Ether Column B, Water	47.5654		50.000000	ND	95		70-130	
Benzene Column B, Water	52.6982		50.000000	ND	105		70-130	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

EPAHO103001617

QUALITY CONTROL RESULTS

Job Number.: 325153 Report Date.: 11/14/2006

CUSTOMER: Buchanan Environmental Associates PROJECT: BOB MERRILL ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	BXS102606G	325285-1		11/08/2006	0843

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Toluene Column B, Water	51.7498		50.000000	ND	103		70-130	
Ethylbenzene Column B, Water	55.9684		50.000000	ND	112		70-130	
m,p-Xylene Column B, Water	106.835		100.000000	ND	107		70-130	
o-Xylene Column B, Water	53.7103		50.000000	ND	107		70-130	

MSD	Matrix Spike Duplicate	BXS102606G	325285-1		11/08/2006	0903

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	55.4094	53.6783	50.000000	ND	111		70-130	
					3.2		20.0	
Benzene, Water	53.6273	53.0441	50.000000	ND	107		70-130	
					1.1		20.0	
Toluene, Water	54.0788	53.5470	50.000000	ND	108		70-130	
					1.0		20.0	
Ethylbenzene, Water	56.2176	54.8623	50.000000	ND	112		70-130	
					2.4		20.0	
m,p-Xylene, Water	112.279	110.162	100.000000	ND	112		70-130	
					1.9		20.0	
o-Xylene, Water	55.1755	53.6516	50.000000	ND	110		70-130	
					2.8		20.0	
Xylenes (total), Water	167.4545	163.8723	150.000000	0.0000	112		70-130	
					2.2		20.0	
Total BTEX, Water	332.5705	326.4318	300.000000	0.0000	111		70-130	
					1.9		20.0	
Tert-Butyl Methyl Ether Column B, Water	52.0858	47.5654	50.000000	ND	104		70-130	
					9.1		20.0	
Benzene Column B, Water	53.2792	52.6982	50.000000	ND	107		70-130	
					1.1		20.0	
Toluene Column B, Water	52.6448	51.7498	50.000000	ND	105		70-130	
					1.7		20.0	
Ethylbenzene Column B, Water	57.4099	55.9684	50.000000	ND	115		70-130	
					2.5		20.0	
m,p-Xylene Column B, Water	108.410	106.835	100.000000	ND	108		70-130	
					1.5		20.0	
o-Xylene Column B, Water	54.6347	53.7103	50.000000	ND	109		70-130	
					1.7		20.0	

LCS	Laboratory Control Sample	BXS110906A	166116-1		11/10/2006	1103

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	51.7260		50.000000		103.5		76-123	
Benzene, Water	46.2250		50.000000		92.5		72-134	
Toluene, Water	46.6016		50.000000		93.2		76-131	
Ethylbenzene, Water	48.1126		50.000000		96.2		75-131	
m,p-Xylene, Water	96.9155		100.000000		96.9		75-130	
o-Xylene, Water	47.5864		50.000000		95.2		74-129	
Xylenes (total), Water	144.5019		150.000000		96.3		70-130	
Total BTEX, Water	285.8820		300.000000		95.3		70-130	
Tert-Butyl Methyl Ether Column B, Water	48.0033		50.000000		96.0		76-123	
Benzene Column B, Water	45.6363		50.000000		91.3		72-134	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

EPAHO103001618

QUALITY CONTROL RESULTS

Job Number.: 325153 Report Date.: 11/14/2006

CUSTOMER: Buchanan Environmental Associates PROJECT: BOB MERRILL ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	BXS110906A	166116-1		11/10/2006	1103

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Toluene Column B, Water	44.7195		50.000000		89.4		76-131	
Ethylbenzene Column B, Water	48.5535		50.000000		97.1		75-131	
m,p-Xylene Column B, Water	93.7124		100.000000		93.7		75-130	
o-Xylene Column B, Water	46.8212		50.000000		93.6		74-129	

MB	Method Blank		166116-1		11/10/2006	1123

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	ND							
Benzene, Water	ND							
Toluene, Water	ND							
Ethylbenzene, Water	ND							
m,p-Xylene, Water	ND							
o-Xylene, Water	ND							
Xylenes (total), Water	0.0000							
Total BTEX, Water	0.0000							
Tert-Butyl Methyl Ether Column B, Water	ND							
Benzene Column B, Water	ND							
Toluene Column B, Water	ND							
Ethylbenzene Column B, Water	ND							
m,p-Xylene Column B, Water	ND							
o-Xylene Column B, Water	ND							

MS	Matrix Spike	BXS110906B	325434-4		11/10/2006	1430

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	51.0551		50.000000	ND	102		70-130	
Benzene, Water	47.6072		50.000000	ND	95		70-130	
Toluene, Water	48.2293		50.000000	ND	96		70-130	
Ethylbenzene, Water	48.9307		50.000000	ND	98		70-130	
m,p-Xylene, Water	100.139		100.000000	ND	100		70-130	
o-Xylene, Water	48.9673		50.000000	ND	98		70-130	
Xylenes (total), Water	149.1063		150.000000	0.0000	99		70-130	
Total BTEX, Water	293.8735		300.000000	0.0000	98		70-130	
Tert-Butyl Methyl Ether Column B, Water	46.4741		50.000000	ND	93		70-130	
Benzene Column B, Water	46.7694		50.000000	ND	94		70-130	
Toluene Column B, Water	45.6720		50.000000	ND	91		70-130	
Ethylbenzene Column B, Water	48.6894		50.000000	ND	97		70-130	
m,p-Xylene Column B, Water	93.9034		100.000000	ND	94		70-130	
o-Xylene Column B, Water	48.5809		50.000000	ND	97		70-130	

MSD	Matrix Spike Duplicate	BXS110906B	325434-4		11/10/2006	1450

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Methyl tert-Butyl ether, Water	46.9434	51.0551	50.000000	ND	94		70-130	
					8.4		20.0	
Benzene, Water	45.5813	47.6072	50.000000	ND	91		70-130	
					4.3		20.0	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

EPAHO103001619

QUALITY CONTROL RESULTS

Job Number.: 325153 Report Date.: 11/14/2006

CUSTOMER: Buchanan Environmental Associates PROJECT: BOB MERRILL ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MSD	Matrix Spike Duplicate	BXS110906B	325434-4		11/10/2006	1450

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Toluene, Water	45.8083	48.2293	50.000000	ND	92		70-130	
					5.1		20.0	
Ethylbenzene, Water	47.7397	48.9307	50.000000	ND	95		70-130	
					2.5		20.0	
m,p-Xylene, Water	94.1518	100.139	100.000000	ND	94		70-130	
					6.2		20.0	
o-Xylene, Water	46.6111	48.9673	50.000000	ND	93		70-130	
					4.9		20.0	
Xylenes (total), Water	140.7629	149.1063	150.000000	0.0000	94		70-130	
					5.8		20.0	
Total BTEX, Water	279.8922	293.8735	300.000000	0.0000	93		70-130	
					4.9		20.0	
Tert-Butyl Methyl Ether Column B, Water	45.6732	46.4741	50.000000	ND	91		70-130	
					1.7		20.0	
Benzene Column B, Water	45.1243	46.7694	50.000000	ND	90		70-130	
					3.6		20.0	
Toluene Column B, Water	44.7207	45.6720	50.000000	ND	89		70-130	
					2.1		20.0	
Ethylbenzene Column B, Water	46.5889	48.6894	50.000000	ND	93		70-130	
					4.4		20.0	
m,p-Xylene Column B, Water	91.9487	93.9034	100.000000	ND	92		70-130	
					2.1		20.0	
o-Xylene Column B, Water	46.3208	48.5809	50.000000	ND	93		70-130	
					4.8		20.0	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

EPAHO103001620

SURROGATE RECOVERIES REPORT

Job Number.: 325153 Report Date.: 11/14/2006

CUSTOMER: Buchanan Environmental Associates PROJECT: BOB MERRILL ATTN: David Buchanan

Method.....: GC Volatile Organics Method Code...: 8021 Prep Batch....:
Batch(s).....: 165856 166116 Test Matrix...: Water Equipment Code: BTEX06

Lab ID	DT	Sample ID	Date	ATFT	ATFTB	BFB	BFBB
165856- 1	LCS		11/08/2006	96.0	92.7	92.1	94.7
165856- 1	MB		11/08/2006	97.5	99.3	90.4	91.2
166116- 1	LCS		11/10/2006	88.1	88.9	80.1	81.1
166116- 1	MB		11/10/2006	88.6	86.7	79.4	80.2
325153- 1		MW-2	11/10/2006	87.9	84.6	78.8	82.5
325153- 2		MW-3	11/08/2006	95.3	95.8	87.0	89.1
325153- 3		MW-4	11/10/2006	86.9	85.9	80.9	85.6
325153- 4		MW-5	11/08/2006	94.5	98.7	95.9	96.3
325153- 5		MW-6	11/08/2006	95.9	99.0	94.4	101.3
325153- 6		MW-12	11/10/2006	88.1	90.8	82.8	88.4
325153- 6		MW-12	11/08/2006	100.2	101.0	89.2	72.1
325153- 7		MW-13	11/08/2006	96.7	97.1	89.9	94.4
325153- 8		MW-14	11/08/2006	97.0	97.1	90.8	89.8
325285- 1	MS	MW-1 11/7/06	11/08/2006	95.8	97.1	92.7	93.5
325285- 1	MSD	MW-1 11/7/06	11/08/2006	95.6	96.2	92.9	93.1
325434- 4	MS	TSP-6	11/10/2006	88.5	88.3	81.7	83.3
325434- 4	MSD	TSP-6	11/10/2006	87.8	86.7	79.7	82.1

Test	Test Description	Limits
ATFT	a,a,a-Trifluorotoluene	70 - 135
ATFTB	a,a,a-Trifluorotoluene Column B	70 - 135
BFB	BFB (Surrogate)	64 - 136
BFBB	BFB (Surrogate) Column B	64 - 136

EPAHO103001621

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 11/14/2006

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
2) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
3) According to 40CFR Part 136.3, pH, Chlorine Residual, and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field, (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.
4) For all USACE projects, the QC limits are based on "mean +/- 2 sigma", which are the warning limits.

General Information:

- Cresylic Acid is the combination of o,m and p-Cresol. The combination is reportesd as the final result.
- m-Cresol and p-Cresol co-elute. The result of the two is reported as either m&p-cresol or as p-cresol.
- m-Xylene and p-Xylene co-elute. The result of the two is reported as m,p-Xylene.
- N-Nitrosodiphenylamine decomposes in the gas chromatograph inlet forming dipheylamine and, consequently, may be detected as diphenylamine.
- Methylene Chloride and Acetone are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
- Trimethysilyl(Diazomethane) is used to esterify acid herbicides in Method SW-846 8151A.
- For Inorganic analyses, duplicate QC limits are determined as follows: If the sample result is less than or equal to 5 times the reporting limit, the RPD limit is equal to the reporting limit. If the sample result is greater than 5 times the reporting limit, the RPD limit is the method defined RPD.
- For TRRP reports, the header on the column RL is equivalent to a MQL/PQL.

Explanation of Qualifiers:

U - This qualifier indicates that the analyte was analyzed but not detected.
J - (Organics only) This qualifier indicates that the analyte is an estimated value between the RL and the MDL.
B - (Inorganics only) This Qualifier indicates that the analyte is an estimated value between the RL and the MDL.
N - (Organics only) This flag indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic charachterization of a TIC, such as "chlorinated hydrocarbon", the "N" flag is not used.

Explanation of General QC Outliers:

A - Matrix interference present in sample.
a - MS/MSD analyses yielded comparable poor recoveries, indicating a possible matrix interference. Method performance is demonstrated by acceptable LCS recoveries.
b - Target analyte was found in the method blank.
M - QC sample analysis yielded recoveries outside QC acceptance criteria. This sample was reanalyzed.
L - LCS analysis yielded high recoveries, indicating a potential high bias. No target analytes were observed above the RL in the associated samples.
G - Marginal outlier within 1% of acceptance criteria.
r - RPD value is outside method acceptance criteria.
C - Poor RPD values observed due to the non-homogenous nature of the sample.
O - Sample required dilution due to matrix interference.
D - Sample reported from a dilution.
d - Spike and/or surrogate diluted.
P - The recovery of this analyte is outside default QC limits. The data is accepted and will be used to calculate in-house statistical limits.
E - The reported concentration exceeds the instrument calibration.
F - The analyte is outside QC limits. The sample data is accepted since this analyte is not reported in associated samples.
H - Continuing Calibration Verification (CCV) standard is not associated with the samples reported.

EPAHO103001622

SEVERN TRENT **STL**

325153

CHAIN OF CUSTODY RECORD

Customer Information		Project Information			Analysis/Method	No. 1/1
PO		PROJECT NAME	Bob Merrill JOB # 980157	A	8021B- BTEX+MTBE	
WO		LAB NUMBER	BOTTLE ORDER	B	PRESERVED ON ICE	
COMPANY	Buchanan Environmental Associates	BILL TO	Buchanan Environmental Associates	C	TEMP BLANK IN COOLER	
SEND REPORT TO	David Buchanan	INVOICE ATTN	David Buchanan	D		
ADDRESS	20406 Perryoak Dr.	ADDRESS	P.O. BOX 14634	E		
				F		
				G		
CITY/STATE/ZIP	Humble, TX 77346	CITY/STATE/ZIP	Humble, TX 77347-4634	H		
PHONE	281-852-2438	PHONE	281-852-2438	I		
FAX	281-852-2462	FAX	281-852-2462	J		
				K		
				L		
				M		
				N		
				O		
				P		
				Q		
				R		
				S	STL Project 99006063	

SAMP NO.	SAMPLE DESCRIPTION	PRESERVE	F	SAMPLE MATRIX	SAMPLE DATE	SAMPLE TIME	# CONTAINER	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
	MW-2	HCL		GROUND WATER	11/3/06	1425	3 x VOA	✓																		
	MW-3					1410		✓																		
	MW-4					1500		✓																		
	MW-5					1440		✓																		
	MW-6					1455		✓																		
	MW-12					1340		✓																		
	MW-13					1310		✓																		
	MW-14	HCL		GROUND WATER	11/3/06	1240	3 x VOA	✓																		

Sampler: BRYAN E. VENTO | Shipment Method: SAMPLER | Airbill No.: | Required TurnAround: 14 DAYS NORMAL

1. Relinquished By:	Date 11/3/06	2. Relinquished By:	Date	3. Relinquished By:	Date
Company Name: TSEA	Time 1650	Company Name:	Time	Company Name:	Time
1. Received By:	Date 11/3/06	2. Received By:	Date	3. Received By:	Date
Company Name: STL	Time 1650	Company Name:	Time	Company Name:	Time

Severn Trent Laboratories 6310 Rothway Drive Houston, TX 77040 713-690-4444 FAX 713-690-5646

EPAHO103001623

rpjsckl	Job Sample Receipt Checklist Report	V2

Job Number.: 325153 Location.: 57216 Check List Number.: 1 Description.:
Customer Job ID.....: Job Check List Date.: Date of the Report..: 11/03/2006
Project Number.: 99006063 Project Description.: Bob Merrill Project Manager.....: jlr
Customer.....: Buchanan Environmental Associates Contact.: David Buchanan

Questions ?	(Y/N)	Comments
Chain of Custody Received?	Y	
...If "yes", completed properly?	Y	
Custody seal on shipping container?	N	
...If "yes", custody seal intact?		
Custody seals on sample containers?	N	
...If "yes", custody seal intact?		
Samples chilled?	Y	
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	3.8
...If "no", is sample an air matrix?(no temp req.)		
Thermometer ID	Y	441
Samples received intact (good condition)?	Y	
Volatile samples acceptable? (no headspace)		
Correct containers used?	Y	
Adequate sample volume provided?	Y	
Samples preserved correctly?	Y	
Samples received within holding-time?	Y	
Agreement between COC and sample labels?	Y	
Radioactivity at or below background levels?	Y	
Additional		
Comments		
Sample Custodian Signature/Date	Y	EHC

11-3-06

EPAHO103001624

Avalon Development 2204
Proj # 2204

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/22/2007**

Dear **Grayson Martin**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2204

Generator: Ovalen Development LLC
Address: 6655 West Bay Road
Baytown, TX 77520

Waste Information

Name of Waste: Recyclable lightends
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Lightends generated from the production of various hydrocarbons
Color: varies **Odor:** hydrocarbon **pH:** 8-12.5
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company:	Ovalen Development LLC		
Address:	6655 West Bay Road		
City, State, Zip:	Baytown, TX 77520		
Contact:	Grayson Martin	**Title:**	Manager
Phone No:	832-731-1149	**Fax No:**	713-622-6359
24/hr Phone:	832-731-1149		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Recyclable Lightends
Detailed Description of Process Generating Waste: Lightends created from the production of various hydrocarbons

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: varies **Odor:** hydrocarbon

Specific Gravity (water=1): 0.8-1.2 **Density:** 8 lbs/gal

Layers: ☒ **Single-phase** ☐ **Multi-phase**

Container Type:	☒	**Drum**	☐ **Tote**	☐	**Truck**	☐	**Other (explain)**
Container Size:		55 gal					

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 20 **Other:**
Texas State Waste Code No: Recyclable
Proper U.S. DOT Shipping Name: Flammable Liquids, n.o.s.
Class: 3 **UN/NA:** UN1993 **PG:** II **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
80	8-12.5	NAmg/l	NAmg/l	1-2%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1000mg/l	>1500mg/l	NAmg/l	NAmg/l	NAmg/l

EPAHO103001627

[illegible] Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Lightends	95-100	%
Soilds	0-5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
~~none~~ oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	TCLP Metals are below regulatory limits
TCLP Volatiles:	TCLP Volatiles are below regulatory limits
TCLP Semi-Volatiles:	TCLP Semi-Volatiles are below regulatory limits
Reactivity:	No reactive materials are introduced into the process
Corrosivity:	pH is Neutral
Ignitability:	No ignitable materials are in the process

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Grayson Martin **Date:** 5-14-07

Printed Name/Title: Grayson Martin/Plant Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robbie R Hughes

Additional Information: $35.00/drum

Date: 5-21-07 Approved Rejected REC

Approval Number: 2204

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001629

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001630

2205 Ovaken Development
Prof #2205

EPAHO103001631

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/22/2007**

Dear **Grayson Martin**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2205

Generator: Ovalen Development LLC
Address: 6655 West Bay Road
Baytown, TX 77520

Waste Information

Name of Waste: Recyclable oil
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Various used oils and unused products from hydrocarbon manufacturing processes
Color: varies **Odor:** hydrocarbon **pH:** 8-12.5
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DC

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Ovalen Development LLC		
Address:	6655 West Bay Road		
City, State, Zip:	Baytown, TX 77520		
Contact:	Grayson Martin	**Title:**	Manager
Phone No:	832-731-1149	**Fax No:**	713-622-6359
24/hr Phone:	832-731-1149		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Recyclable Oil
Detailed Description of Process Generating Waste: Various used oils and unused products from hydrocarbon manufacturing processes

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: varies **Odor:** hydrocarbon

Specific Gravity (water=1): 0.8-1.2 **Density:** 8 lbs/gal

Layers: ☐ **Single-phase** ☒ **Multi-phase**

Container Type:	☒ **Drum**	☒ **Tote**	☐ **Truck**	☐ **Other (explain)**
Container Size:	55 gal	300 gal	____	____

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 20 **Other:** ____
Texas State Waste Code No: Recyclable
Proper U.S. DOT Shipping Name: Non RCRA Non DOT Regulated Recyclable Hydrocarbons
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point >150	**pH** 8-12.5	**Reactive Sulfides** NAmg/l	**Reactive Cyanides** NAmg/l	**Solids** 1-2%
Oil&Grease >1000mg/l	**TOC** >1500mg/l	**Zinc** NAmg/l	**Copper** NAmg/l	**Nickel** NAmg/l

EPAHO103001633

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Oils (black oil, babyoil, used oils)	95-100	%
Solids	0-5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none Chlr-D-Tect

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	TCLP Metals are below regulatory limits
TCLP Volatiles:	TCLP Volatiles are below regulatory limits
TCLP Semi-Volatiles:	TCLP Semi-Volatiles are below regulatory limits
Reactivity:	No reactive materials are introduced into the process
Corrosivity:	pH is Neutral
Ignitability:	No ignitable materials are in the process

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Grayson Martin Plant **Date:** 5-14-07

Printed Name/Title: Grayson Martin Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert R Thaggard Additional Information: $35.00/drum

Date: 5-21-07 Approved Rejected REC

Approval Number: 2205

EPAHO103001634

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001635

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001636

2206 Ovalen Development
Prot #2206

EPAHO103001637

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/22/2007**

Dear **Grayson Martin**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2206

Generator: Ovalen Development LLC
Address: 6655 West Bay Road
Baytown, TX 77520

Waste Information

Name of Waste: Empty drums
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Empty drums from hydrocarbon manufacturer
Color: varies **Odor:** none **pH:** na
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DC

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Ovalen Development LLC		
Address:	6655 West Bay Road		
City, State, Zip:	Baytown, TX 77520		
Contact:	Grayson Martin	**Title:**	Manager
Phone No:	832-731-1149	**Fax No:**	713-622-6359
24/hr Phone:	832-731-1149		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Empty drums
Detailed Description of Process Generating Waste: Empty product drums from hydrocarbon manufacturer

Physical State: ☐ **Liquid** ☐ **Sludge** ☐ **Powder**
☒ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: varies **Odor:** none

Specific Gravity (water=1): 1.4 **Density:** 10 lbs/gal

Layers: ☒ **Single-phase** ☐ **Multi-phase**

Container Type:	☒ **Drum**	☐ **Tote**	☐ **Truck**	☐ **Other (explain)**
Container Size:	55 gal	____	____	____

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 20 **Other:** ____
Texas State Waste Code No: Recyclable
Proper U.S. DOT Shipping Name: Non RCRA Non DOT Regulated Recyclable drums
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
NA	NA	NAmg/l	NAmg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
NAmg/l	NAmg/l	NAmg/l	NAmg/l	NAmg/l

EPAHO103001639

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Empty Drums	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ____
TCLP Volatiles: ____
TCLP Semi-Volatiles: ____
Reactivity: ____
Corrosivity: ____
Ignitability: ____

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 5-14-07

Printed Name/Title: Grayson Martin/Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____ Additional Information: $10.00/drum

Date: 5-21-07 Approved Rejected

Approval Number: 2206

EPAHO103001640

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001641

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001642

H & E Equipment 2207
Prof # 2207

EPAHO10300164 3

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/23/2007**

Dear **Jerry**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2207

Generator: H & E Equipment
Address: 18144 Imperial Valley Drive
Houston, TX 77060

Waste Information

Name of Waste: Non-RCRA waste bio sludge and water
TCEQ Waste Code #: CESQ1191
Container Type:
Detailed Description of Process Generating Waste:
Wastewater and sludge from clleaning out oily water separator bio processinng tanks and lift washing area.
Color: brown to black **Odor:** slight hydrocarbon **pH:** 5-10
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

DB

SECTION 1: Generator Information

Company:	H & E Equipment		
Address:	18144 Imperial Valley Drive		
City, State, Zip:	Houston, TX 77060		
Contact:	Jerry	**Title:**	Maintenance Manager
Phone No:	281-821-4600	**Fax No:**	281-443-4919
24/hr Phone:	281-821-4600		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Non-RCRA Waste Bio Sludge and Water
Detailed Description of Process Generating Waste: Waste Water and Sludge from cleaning out oily water separator Bio processing tanks and lift washing area.

Physical State: ☒ **Liquid** ☒ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: Brown to Black **Odor:** Slight Hydrocarbon

Specific Gravity (water=1): .9-1.2 **Density:** 8-10 lbs/gal

Layers: ☐ **Single-phase** ☒ **Multi-phase**

Container Type: ☐ **Drum** ☐ **Tote** ☒ **Truck** ☐ **Other (explain)**
Container Size: ____ ____ 1-3000 ____

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: CESQ1191
Proper U.S. DOT Shipping Name: Non-RCRA Waste Biosludge
Class: Na **UN/NA:** Na **PG:** Na **RQ:** Na

Flash Point >160	**pH** 5-10	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 1-10%
Oil&Grease >1500mg/l	**TOC** 1-10,000mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

EPAHO103001645

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	76-99	%
Oil	0-4	%
Diesel	0-4	%
Sludge (Mud)	1-10	%
Debris	0-6	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
TCLP Analysis

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ____
TCLP Volatiles: TCLP Benzene- no other Volitiles introduced in the process
TCLP Semi-Volatiles: X- None Used in Process
Reactivity: X-Nothing in process that is reactive
Corrosivity: X- No Soaps or solvent used- just recycle water
Ignitability: ____

SECTION 9: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☑ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Jerry Baldwin Date: 05/22/07

Printed Name/Title: JERRY BALDWIN / Shop Foreman

CEC USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information:
Compliance Officer: Robert Mayhew Date: 5-23-07 (Approved) Rejected Approval Number: 2207	Trans- $95/hr Air Machine Disposal- .20/gal- Filter Press Helper-$30/hr IL

EPAHO103001646

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☒ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☒ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001647

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☒ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001648

CES Environmental Services, Inc.
4904 Griggs Rd
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

Quotation

For: H @ E Equipment **Date:** 05/23/07
Attn: Jerry
Phone: 281-821-4600
Fax: 281-443-4919

Description of Work to be Performed:

Transportation, labor, materials, and disposal of Non-Hazardous waste bio-sludge from oily water separator, bio-treatment tanks, and lift washing area.

Costs for Completion of Work:

Air Machine @ $95/hr (4 hr min-Est. 6 hrs)	$570.00
Recycle of Hydrocarbon and Water Mixture @ .20/gallon -$200 min (Estimated 2000 gallons)	$400.00
Field Service Technician (1) @ $30/hr (Estimated 6 hours)	$180.00
PPE and Flex Hose	$150.00
Fuel Surcharge @ 18% trans (Estimated)	$102.60
Estimated Total	**$1,402.60**

*Payment Terms are Net 30 days.
*Quote is based on time and materials which can only be estimated.
*Customer agrees to provide one additional helper and power washer.
**Thank you for your interest in CES Environmental Services.

Acceptance Signature_____

Date_____

CES Environmental Services, Inc.
4904 Griggs Rd
Houston, TX 77021
Phone: (713) 676-1460
Fax: (713) 676-1676

Quotation

For: H @ E Equipment **Date:** 05/23/07
Attn: Jerry
Phone: 281-821-4600
Fax: 281-443-4919

Description of Work to be Performed:

Analysis for Bil-sludge

Costs for Completion of Work:

TCLP 11 metals, Flash, BTEX, TPH	$425.00
Estimated Total	**$425.00**

*Payment Terms are Net 30 days.
**Thank you for your interest in CES Environmental Services.

Acceptance Signature_____

Date_____

ENVIRON EXPRESS LABORATORIES, INC.

401 N. 11th. St.
La Porte, TX 77571
281.471.0951 FAX:281.471.5821

Express Laboratories

CERTIFICATE OF ANALYSIS NO: 61857.01 1of 3

Customer: CES Environmental | Sample ID: Waste Water | Environ ID: 61857.01
Project ID: H&E Equipment | Sampled: 05-09-07
Project Loc: Hou., TX | Matrix: Liquid | Received: 05-10-07
Charge/P.O.: | Type: Grab | Reported: 05-18-07

TCEQ TCLP METALS, IGN, BTEX, & TPH

ANALYTE/PARAMETER	RESULT	UNITS	REG. LIMIT	MQL	TEST METHOD	TEST BY	DATE	TIME
BTEX								
Benzene	< 0.005	mg/l	--	0.005	SW846.8021B	DMB	05-14-07	17:34
Toluene	0.173	mg/l	--	0.005	EPA SW846.8021B	DMB	05-14-07	17:34
Ethylbenzene	0.139	mg/l	--	0.005	EPA SW846.8021B	DMB	05-14-07	17:34
Xylenes	0.554	mg/l	--	0.015	EPA SW846.8021B	DMB	05-14-07	17:34
Total BTEX	0.866	mg/l	--		EPA SW846.8021B	DMB	05-14-07	17:34
TPH								
nC6 to nC12 GRO	< 248	mg/l	--	248	TCEQ 1005.3	DB	05-15-07	13:35
> nC12 to nC28 DRO	4,705	mg/l	--	248	TCEQ 1005.3	DB	05-15-07	13:35
> nC28 to nC35 ORO	1,880	mg/l	--	248	TCEQ 1005.3	DB	05-15-07	13:35
TPH (Total nC6 to nC35)	6,585	mg/l	500		TCEQ 1005.3	DB	05-15-07	13:35
FLASH								
Ignitability	> 160	°F	> 140	--	EPA SW846.1010	LC	05-14-07	11:05
METALS - TCEQ-TCLP					EPA SW846.1311	MN	05-10-07	
Antimony	< 0.1	mg/l	1.0	0.1	EPA SW846.6010B	JK	05-14-07	15:00
Arsenic	< 0.1	mg/l	1.8	0.1	EPA SW846.6010B	JK	05-14-07	15:00
Barium	< 2.0	mg/l	100	2.0	EPA SW846.6010B	JK	05-14-07	15:00
Beryllium	< 0.05	mg/l	0.08	0.05	EPA SW846.6010B	JK	05-14-07	15:00
Cadmium	< 0.1	mg/l	0.5	0.1	EPA SW846.6010B	JK	05-14-07	15:00
Chromium	< 0.1	mg/l	5.0	0.1	EPA SW846.6010B	JK	05-14-07	15:00
Lead	< 0.1	mg/l	1.5/5.0	0.1	EPA SW846.6010B	JK	05-14-07	15:00
Nickel	< 0.1	mg/l	70	0.1	EPA SW846.6010B	JK	05-14-07	15:00
Selenium	< 0.1	mg/l	1.0	0.1	EPA SW846.6010B	JK	05-14-07	15:00
Silver	< 0.2	mg/l	5.0	0.2	EPA SW846.6010B	JK	05-14-07	15:00
Vanadium	< 0.1	mg/l	16.8	0.1	EPA SW846.6010B	JK	05-14-07	15:00
Vanadium as V2O5	< 0.2	mg/l	30.0	0.2	EPA SW846.6010B	JK	05-14-07	15:00
Mercury	< 0.02	mg/l	0.2	0.02	EPA SW846.7470A	MN	05-14-07	04:25

Key: TCLP - Toxicity Characteristic Leaching Procedure
EPA - Environmental Protection Agency
TCEQ - Texas Commission on Environmental Quality
TPH - Total petroleum Hydrocarbons
GRO - Gasoline Range, ORO - Diesel Range, ORO - Oil Range
REG - Regulatory Limit (User Should Verify)
MQL - Method Quantitation Limit
RCVD - As Received (Wet) Basis
mg/l - Milligrams per Liter (PPM Volume)
mg/kg - Milligrams per Kilogram (PPM Weight)

John Keller

John Keller, Ph.D
Laboratory Director

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	BTEX	METHOD:	EPA SW846/5030/8021B	MATRIX:	Soil

ANALYST:	dmb	UNITS:	mg/kg	NO.SAMPLES:	19

SAMPLES:	61801-01	61807-01	61814-01	61814-02	61814-03	61815-01	61815-02	61815-03
	61815-04	61816-01	61816-02	61823-01	61823-02	61823-03	61823-04	61823-05
	61823-06	61825-01	61857.01					

MATRIX 61823-03	MATRIX RESULTS	SPIKE ADDED	MS RESULTS	MS REC	MSD REC	RPD	CCV REC	MB	QC LIMITS (%)	
									REC-RANGE	RPD
BENZ	0	490	457	93	91	2	85	0	60 - 120	20
TOL	0	490	434	89	86	3	78	0	60 - 120	20
ETBZ	0	490	449	92	87	6	77	0	60 - 120	20
XYLS	0	1471	1360	93	90	3	84	0	60 - 120	20
MTBE	0	490	397	81	81	0	75	0	60 - 120	20

KEY:

BTEX - Benzene (BENZ), Toluene (TOL)
Ethylbenzene (ETBZ), Xylenes (XYLS)
MTBE - Methyl-tert-butyl ether
CCV - Continuing Calibration Verification
MB - Method Blank
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
REC - Recovery Percent

5/11/07

JOHN KELLER, Ph.D — DATE
Lab.Dir./QA-QC Mgr.

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	TPH	METHOD:	TNRCC 1005.3

ANALYST:	dmb	MATRIX:	WATER	UNITS:	mg/l	SAMPLES:	1

SAMPLES:	61857.01						

SAMPLE MB	MB mg/l	CCV REC	LCS REC	MS REC	MSD REC	MS-MSD RPD	QC LIMITS REC	 RPD
GRO RESULT	<5	117	106	106	114	8	70 - 130	30
DRO RESULT	<5	119	103	103	108	5	70 - 130	30

05-17-07

JOHN KELLER, Ph.D, Lab.Dir./QA-QC Mgr. DATE

KEY:

TPH - Total Petroleum Hydrocarbons
GRO - Gasoline Range Organics
DRO - Diesel Range Organics
CCV - Continuing Calibration Verification
MB - Method Blank
LCS - Laboratory Control Sample
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative % Difference
REC - Recovery %

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	METALS	METHOD:	EPA SW846/6010	MATRIX:	LIQUID

ANALYST:	JK	DATE:	05.14.07	UNITS:	PPM (mg/l)	NO.SAMPLES:	12

SAMPLES:	61861.01	61863.01	61863.02	61850.01	61853.01	61854.01	61856.01	61857.01
	61858.01	61859.01	61859.02	61859.03				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS BATCH ID: 61861.01

SAMPLE Matrix	SAMPLE RESULTS	SPIKE ADDED	SPIKE RESULTS	RECOV. %	RECOV. DUP. %	REL. DIFF. %	CONT. CALIB.	METHOD BLANK	QC LIMITS RECOV.	QC LIMITS DIFF.
Arsenic	0.00	5	4.33	87	88	2	97	0	75 - 125	20
Barium	0.00	5	4.31	86	88	3	80	0	75 - 125	20
Cadmium	0.00	5	4.31	86	87	1	95	0	75 - 125	20
Chromium	0.00	5	4.25	85	87	2	93	0	75 - 125	20
Lead	0.00	5	4.37	87	86	1	95	0	75 - 125	20
Selenium	0.00	5	4.50	90	91	1	96	0	75 - 125	20
Silver	0.00	5	4.28	86	86	0	105	0	75 - 125	20

JOHN KELLER, Ph.D
Laboratory Director

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	MERCURY	METHOD: EPA SW846/7471A	MATRIX:	LIQUID

ANALYSTS:	MN	DATE:	5/14/2007	UNITS:	mg/l	NO.SAMPLES:	8

SAMPLES:	61857.01	61858.01	61859..01	61859.02	61859.03	61861.01	61863.01	61863.02
	61864.01							

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS

SAMPLE 61863.01	SAMPLE RESULTS	SPIKE ADDED	SPIKE RESULTS	RECOV. %	RECOV. DUP. %	REL. DIFF.	CONT. CALIB.	METH. BLANK	CORR. COEFF.	QC LIMITS RECOV.	QC LIMITS DIFF.
MERCURY	0.00	0.002	0.002	100	100	0	100	0	1	60 - 120	20

JOHN KELLER, Ph.D
Laboratory Director

Wednesday PM 5/16/07

CHAIN OF CUSTODY

ENVIRON Express Laboratories

Page 1 of 1

ENVIRON EXPRESS LABORATORIES, INC.
401 North 11th. St. / La Porte, Texas 77571-3115
(281) 471-0951 / (800) 880-0156
Fax: (281) 471-5821 / After Hours: (281) 844-2308
e-mail: environexp@aol.com

Results To:	Dan Bowman
Company:	CES Environmental ~~H&E Equ~~
Address:	4904 Griggs Rd
City / State / Zip:	Houston Tx 77021
Phone:	713-854-6150
Fax:	713-670-1460
e-Mail:	
Invoice To:	Sent
Company:	
Address:	
City / State / Zip:	
Phone:	
Fax:	
PO#:	
Quote#:	

TAT (WORKING DAYS) CIRCLE ONE: 1 2 3 (5)

LAB LOT #	
COC Present?	(Yes) No
Shipment Sealed?	(Yes) No
Samples Sealed?	(Yes) No
Received on Ice?	(Yes) No
Samples Intact?	(Yes) No
Cooler Temp. (°C)	2°C
Preservative Shown?	Yes (No) NA
Hold Time OK?	(Yes) No
Res Cl2 Check OK?	Yes No (NA)
pH Check OK?	(Yes) No NA
COC & Labels Agree?	(Yes) No

Remarks & Additional Analyses

Project Name: H&E Equipment
Project Location: Houston, TX
Project No:
Sampler (Print): Dan Bowman
Sampler (Sign): [signature]

Sampler Remarks:

[2] Cntr. Type	G
Number	1
Volume	3202
[3] Preservative	1

EEL USE ONLY (LAB NO.)	SAMPLE ID.	DATE/TIME SAMPLED	[1] MATRIX	(C)OMP / (G)RAB	BTEX (8021B)	TPH (TX1005.3)	RCI	PAH	TOTAL EPA TCLP VOLATILES	SEMI-VOLS	RCRA 8 METALS	Flash	1
61857.01	1) Waste Water ~~H&E Equipment~~	RH 5-9-07 2:00	WW	G	X	X					X	X	
	2)												
	3)												
	4)												
	5)												
	6)												
	7)												
	8)												
	9)												
	10)												

Relinquished By:	Company:	Date/Time:	Received By:	Company:
[signature]	CES	5/10/07 4:30pm	Ronda Hargrave	Environ Express

[1] **Matrix Key**
S:Soil W:Water WW:Waste Water SL:Sludge SO:Solid SE:Sediment L: Leachate WI:Wipe OR:Organic OL:Oil DS:Drum Solid DL:Drum Liquid O:Other _____

[2] **Container Type Key**
P:Plastic G:Glass V:VOA Glass O:Other _____

[3] **Preservative Key**
1:Ice(<4°C) 2:HCL 3:H2SO4 4:HNO3 5:NaOH 6:NaOH+Zn Acetate 7:Na2S2O3 8:None

Delivery of samples constitutes acceptance of Environ's terms and conditions in the Price Schedule.

5-18-07; 2:18PM;Environ ;2814715821 # 7/ 7

EPAHO103001656

2208 Ovalen Development
Prof # 2208

EPAHO103001657

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/22/2007**

Dear **Grayson Martin**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2208

Generator: Ovalen Development LLC
Address: 6655 West Bay Road
Baytown, TX 77520

Waste Information

Name of Waste: Oily absorbent pads
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Oily absorbent pads and dirt from cleaning of spills from hot oil system in hydrocarbon manufacturing
Color: dark **Odor:** hydrocarbon **pH:** 8-12.5
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road **Houston, TX 77021**
Phone: (713) 676-1460 **Fax: (713) 676-1676**
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 **ISWR No: 30900**

SECTION 1: Generator Information

Company:	Ovalen Development LLC		
Address:	6655 West Bay Road		
City, State, Zip:	Baytown, TX 77520		
Contact:	John Douglass	**Title:**	Manager
Phone No:	318-518-7634	**Fax No:**	2713-622-6359
24/hr Phone:	318-518-7634		
U.S. EPA I.D. No:	NA		
State I.D.	NA	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Oily absorbent pads
Detailed Description of Process Generating Waste: oily absorbent pads and dirt from cleaning of spills from ~~of hot~~ oil system in hydrocarbon manufacturing

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☒ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: dark **Odor:** hydrocarbon

Specific Gravity (water=1): 1.2 **Density:** 8.5 lbs/gal

Layers: ☐ **Single-phase** ☒ **Multi-phase**

Container Type:	☒	**Drum**	☐ **Tote**	☐	**Truck**	☐	**Other (explain)**
Container Size:		55 gal	____		____		____

Frequency: ☐ **Weekly** ☐ **Monthly** ☒ **Quarterly** ☐ **Yearly**
Number of Units (containers): 15 **Other:** ____
Texas State Waste Code No: Recyclable
Proper U.S. DOT Shipping Name: Non RCRA Non DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point None	**pH** 8-12.5	**Reactive Sulfides** NAmg/l	**Reactive Cyanides** NAmg/l	**Solids** 80-100%
Oil&Grease >1000mg/l	**TOC** >1500mg/l	**Zinc** NAmg/l	**Copper** NAmg/l	**Nickel** NAmg/l

EPAHO103001659

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Oil	0-10	%
Solids (absorbent pads, dirt, debris)	70-90	%
Water	0-10	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ____
TCLP Volatiles: ____
TCLP Semi-Volatiles: ____
Reactivity: ____
Corrosivity: ____
Ignitability: ____

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] Plant **Date:** 5-15-07

Printed Name/Title: Grayson Marting/Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: [signature] Additional Information: $55.00/drum

Date: 5-22-07 (Approved) Rejected

Approval Number: 2208

EPAHO103001660

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001661

2209 Pathfinder Energy Svcs
Prof # 2209

EPAHO103001662

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/23/2007**

Dear **Ken Mabry**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2209

Generator: Pathfinder Energy Services
Address: 11997 FM 529
Houston, TX 77041

Waste Information

Name of Waste: Non-RCRA wastewater
TCEQ Waste Code #: 00011191
Container Type:
Detailed Description of Process Generating Waste:
Wastewater generated from washing petroleum drilling equipment
Color: clear to black **Odor:** none **pH:** 4-9
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

D5

SECTION 1: Generator Information

Company:	Pathfinder Energy Services, Inc.		
Address:	11997 FM 529		
City, State, Zip:	Houston, TX 77041		
Contact:	Sean	**Title:**	Supervisor
Phone No:	713-983-2400	**Fax No:**	713-849-9328
24/hr Phone:	713-983-2400		
U.S. EPA I.D. No:	TXCESQG		
State I.D.	83936	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Pathfinder Energy Services, Inc		
Address:	15151 Sommermeyer		
City, State, Zip:	Houston, TX 77041-5332		
Contact:	Price Young	**Title:**	HSE Manager
Phone No:	281-924-5489	**Fax No:**	713-996-1280

SECTION 3: General Description of the Waste

Name of Waste: Non-RCRA Waste Water
Detailed Description of Process Generating Waste: Waste Water generated from washing petroleum drilling equipment

Physical State: ☒ **Liquid** ☐ **Sludge** ☐ **Powder** ☐ **Solid** ☐ **Filter Cake** ☐ **Combination**

Color: Clear to Black **Odor:** None

Specific Gravity (water=1): .9-1.1 **Density:** 8-9 lbs/gal

Layers: ☐ **Single-phase** ☒ **Multi-phase**

Container Type: ☐ **Drum** ☐ **Tote** ☒ **Truck** ☐ **Other (explain)**
Container Size: ____ ____ 4-5000 ____

Frequency: ☐ **Weekly** ☒ **Monthly** ☐ **Quarterly** ☐ **Yearly**
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: 00011191
Proper U.S. DOT Shipping Name: Non-RCRA, Non DOT Regulated Waste Water
Class: Na **UN/NA:** Na **PG:** Na **RQ:** Na

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200	4-9	0mg/l	0mg/l	0-3%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	<5000mg/l	Namg/l	Na`mg/l	Namg/l

EPAHO103001664

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☒ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☒ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001665

ENVIRON EXPRESS LABORATORIES, INC.

401 N. 11th. St.
La Porte, TX 77571
281.471.0951 FAX:281.471.5821

CERTIFICATE OF ANALYSIS NO: 61856.01 1of 3

Customer: ExxonMobil Chem. Sample ID: Waste Water Environ ID: 61856.01
Project ID: Pathfinder Energy Sampled: 05-09-07
Project Loc: Hou., TX Matrix: Liquid Received: 05-10-07
Charge/P.O.: Type: Grab Reported: 05-22-07

TCEQ TCLP METALS, IGN, BTEX, & TPH

ANALYTE/PARAMETER	RESULT	UNITS	REG. LIMIT	MQL	TEST METHOD	TEST BY	DATE	TIME
TCLP BENZENE					EPA SW846.1311	MN	05-10-07	
Benzene	< 0.001	mg/l	--	0.001	EPA SW846.8021B	DMB	05-15-07	13:34
RCI								
Reactive Cyanide	< 50	mg/l	250	50	EPA SW846.7.3.3	LC	05-14-07	12:00
Reactive Sulfide	< 50	mg/l	500	50	EPA SW846.7.3.4	LC	05-14-07	11:50
Corrosivity (Ph)	7.83	su	=>2; =<12.5	--	EPA SW846.9045C	LC	05-14-07	11:45
Ignitability	> 160	°F	> 140	--	EPA SW846.1010	LC	05-14-07	11:05
METALS - TCEQ-TCLP					EPA SW846.1311	MN	05-10-07	
Antimony	< 0.1	mg/l	1.0	0.1	EPA SW846.6010B	JK	05-14-07	09:30
Arsenic	< 0.1	mg/l	1.8	0.1	EPA SW846.6010B	JK	05-14-07	09:30
Barium	< 2.0	mg/l	100	2.0	EPA SW846.6010B	JK	05-14-07	09:30
Beryllium	< 0.05	mg/l	0.08	0.05	EPA SW846.6010B	JK	05-14-07	09:30
Cadmium	< 0.1	mg/l	0.5	0.1	EPA SW846.6010B	JK	05-14-07	09:30
Chromium	< 0.1	mg/l	5.0	0.1	EPA SW846.6010B	JK	05-14-07	09:30
Lead	< 0.1	mg/l	1.5/5.0	0.1	EPA SW846.6010B	JK	05-14-07	09:30
Nickel	< 0.1	mg/l	70	0.1	EPA SW846.6010B	JK	05-14-07	09:30
Selenium	< 0.1	mg/l	1.0	0.1	EPA SW846.6010B	JK	05-14-07	09:30
Silver	< 0.2	mg/l	5.0	0.2	EPA SW846.6010B	JK	05-14-07	09:30
Mercury	< 0.02	mg/l	0.2	0.02	EPA SW846.7470A	MN	05-11-07	06:00

Key: TCLP - Toxicity Characteristic Leaching Procedu REG - Regulatory Limit (User Should Verify)
EPA - Environmental Protection Agency MQL - Method Quantitation Limit
TCEQ - Texas Commission on Environmental Qu RCVD - As Received (Wet) Basis
mg/l - Milligrams per Liter (PPM Volume)
mg/kg - Milligrams per Kilogram (PPM Weight)

John Keller

John Keller, Ph.D
Laboratory Director

EPAHO103001666

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	BTEX	METHOD:	EPA SW846/5030/8021B	MATRIX:	LEACHATE

ANALYST:	dmb	UNITS:	mg/l	NO.SAMPLES:	14

SAMPLES:	61837-02	61837-03	61837-04	61838-02	61841-01	61849-01	61849-02	61850-01
	61856-01	61859-01	61871-01	61838-03	61883-01	61883-02		

MATRIX 61883-02	MATRIX RESULTS	SPIKE ADDED	MS RESULTS	MS REC	MSD REC	RPD	CCV REC	MB	QC LIMITS (%) REC-RANGE	QC LIMITS (%) RPD
BENZENE	0	100	107	107	108	0	91	0	60 - 120	20
TOLUENE	0	100	103	103	103	0	86	0	60 - 120	20
Et-BENZENE	0	100	103	103	105	2	89	0	60 - 120	20
XYLENES	0	300	337	112	111	1	92	0	60 - 120	20
MTBE	0	100	105	105	106	1	85	0	60 - 120	20

KEY:

BTEX - Benzene (BENZ), Toluene (TOL)
Ethylbenzene (ETBZ), Xylenes (XYLS)
MTBE - Methyl-tert-butyl ether
CCV - Continuing Calibration Verification
MB - Method Blank
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
REC - Recovery Percent

John Keller

JOHN KELLER, Ph.D
Lab.Dir./QA-QC Mgr.

5/22/07
DATE

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	METALS	METHOD:	EPA SW846/6010	MATRIX:	LIQUID

ANALYST:	JK	DATE:	05.14.07	UNITS:	PPM (mg/l)	NO.SAMPLES:	12

SAMPLES:	61861.01	61863.01	61863.02	61850.01	61853.01•	61854.01	61856.01	61857.01•
	61858.01	61859.01	61859.02	61859.03				

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS BATCH ID: 61861.01

SAMPLE Matrix	SAMPLE RESULTS	SPIKE ADDED	SPIKE RESULTS	RECOV. %	RECOV. DUP. %	REL. DIFF. %	CONT. CALIB.	METHOD BLANK	QC LIMITS RECOV.	QC LIMITS DIFF.
Arsenic	0.00	5	4.33	87	88	2	97	0	75 - 125	20
Barium	0.00	5	4.31	86	88	3	80	0	75 - 125	20
Cadmium	0.00	5	4.31	86	87	1	95	0	75 - 125	20
Chromium	0.00	5	4.25	85	87	2	93	0	75 - 125	20
Lead	0.00	5	4.37	87	86	1	95	0	75 - 125	20
Selenium	0.00	5	4.50	90	91	1	96	0	75 - 125	20
Silver	0.00	5	4.28	86	86	0	105	0	75 - 125	20

JOHN KELLER, Ph.D
Laboratory Director

ENVIRON EXPRESS QUALITY CONTROL REPORT

ANALYSIS:	MERCURY	METHOD: EPA SW846/7471A	MATRIX:	LIQUID

ANALYSTS:	MN	DATE:	05.11.07	UNITS:	mg/l	NO.SAMPLES:	10

SAMPLES:	61846.01	61847.01	61847.02	61847.03	61847.04	61849.01	61849.02	61850.01
	61853.01.	61856.01						

MATRIX SPIKE & MATRIX SPIKE DUPLICATE ANALYSIS

SAMPLE Matrix	SAMPLE RESULTS	SPIKE ADDED	SPIKE RESULTS	RECOV. %	RECOV. DUP. %	REL. DIFF.	CONT. CALIB.	METH. BLANK	CORR. COEFF.	QC LIMITS RECOV.	QC LIMITS DIFF.
MERCURY	0.00	0.002	0.002	100	100	0	100	0	1	60 - 120	20

John Keller

JOHN KELLER, Ph.D
Laboratory Director

ENVIRON
Express Laboratories

ENVIRON EXPRESS QUALITY CONTROL REPORT

BATCH ID:	61865.01	MATRIX:	Water	NO.SAMPLES:	6

SAMPLES:	61865.01	61856.01	61857.01	61867.01	61863.01	61863.02	

ANALYSIS (units)	QC SAMPLE	SAMPLE RESULTS	SPK ADDED	DUP/SPK RESULTS	MS REC	DUP/MSD RPD	CCV REC	MB	QC LIMITS (%) REC	QC LIMITS (%) RPD
Reactive Cyanide (mg/kg)	61856.01	<50	500	50	100	0	100	<50	60 - 120	20
Reactive Sulfide (mg/kg)	61856.01	<50	500	500	100	0	100	<50	60 - 120	20
Ignitability (°F)	61865.01	>160	--	>160	--	0	98	--	60 - 120	20
pH (su)	61865.01	3.75	--	3.73	--	0	100	--	NA	20

KEY: CCV - Continuing Calibration Verification
DUP - Duplicate
QC - Quality Control
MB - Method Blank
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
REC - Recovery Percent
SPK - Spike

John Keller

5/15/2007
JOHN KELLER, Ph.D DATE
Lab.Dir./QA-QC Mgr.

CHAIN OF CUSTODY

Page 1 of 1

ENVIRON EXPRESS LABORATORIES, INC.
401 North 11th. St. / La Porte, Texas 77571-3115
(281) 471-0951 / (800) 880-0156
Fax: (281) 471-5821 / After Hours: (281) 844-2308
e-mail: environexp@aol.com

Results To: Dan Bowman	Invoice To: Same
Company: CES 4904 Griggs Rd	Company:
Address: N/A	Address:
City: Houston State: Tx Zip: 77021	City: State: Zip:
Phone: 713-954-6150	Phone:
Fax: 713-676-1676	Fax:
e-Mail:	PO#: Quote#:

TAT (WORKING DAYS) CIRCLE ONE: 1 2 3 (5)

LAB LOT #	COC Present? (Yes) No
Shipment Sealed? (Yes) No	Samples Sealed? (Yes) No
Received on Ice? (Yes) No	Samples Intact? (Yes) No
Cooler Temp. (°C) 2°C	Preservative Shown? Yes (No) NA
Hold Time OK? (Yes) No	Res. Cl2 Check OK? Yes No (NA)
pH Check OK? (Yes) No NA	COC & Labels Agree? (Yes) No

Remarks & Additional Analyses

Project Name: Pathfinder Energy	Sampler Remarks:
Project Location: Houston, TX	
Project No:	
Sampler (Print): Dan Bowman	
Sampler (Sign): Dan Bowman	

EEL USE ONLY (LAB NO.)	SAMPLE ID.	DATE/TIME SAMPLED	[1] MATRIX	(C)OMP / (G)RAB	BTEX (8021B)	TPH (TX1005.3)	RCI	PAH	TOTAL EPA TCLP: VOLATILES	SEMI-VOLS	RCRA 8 METALS	TCLP Benzene
	[2] Cntr. Type		G									
	Number		1									
	Volume		32oz									
	[3] Preservative		1									
61856.01	1) Waste Water	5/9/07 4:00 PM	WW	G			X				+	+
	2)											
	3)											
	4)											
	5)											
	6)											
	7)											
	8)											
	9)											
	10)											

Relinquished By: Dan Bowman	Company: CES	Date/Time: 5/10/07 4:30 PM	Received By: Ronda Hargrave Company: Environ Express
Relinquished By:	Company:	Date/Time:	Received By: Company:
Relinquished By:	Company:	Date/Time:	Received By: Company:

[1] **Matrix Key**
S:Soil W:Water WW:Waste Water SL:Sludge SO:Solid SE:Sediment L: Leachate WI:Wipe OR:Organic OL:Oil DS:Drum Solid DL:Drum Liquid O:Other _____

[2] **Container Type Key**
P:Plastic G:Glass V:VOA Glass O:Other _____

[3] **Preservative Key**
1:Ice(<4°C) 2:HCL 3:H2SO4 4:HNO3 5:NaOH 6:NaOH+Zn Acetate 7:Na2S2O3 8:None

Delivery of samples constitutes acceptance of Environ's terms and conditions in the Price Schedule.

7/ 7 ;2814715821 5-22-07;10:53AM;Environ
EPAHO10301671

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **6/14/2008**

Dear **Ken Mabry**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2209

Expiration Date 5/23/2009

Generator: Pathfinder Energy Services
Address: 11997 FM 529
Houston, TX 77041

Waste Information

Name of Waste: Non-RCRA wastewater
TCEQ Waste Code #: 00011191
Container Type:
Detailed Description of Process Generating Waste:
Wastewater generated from washing petroleum drilling equipment
Color: clear to black **Odor:** none **pH:** 4-9
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company :	Pathfinder Energy Services		
Address :	11997 FM 529 11997 FM 529		
City, State, Zip :	Houston TX 77041		
Contact :	Ken Mabry	Title :	
Phone No :	(713) 996-1281	Fax :	(713) 996-1280
24 / HR Phone :			
U.S EPA I.D No :	TXCESQG		
State I.D :	83936	SIC Code	na

SECTION 2: Billing Information

Company :	Pathfinder Energy Services		
Address :	11997 FM 529 11997 FM 529		
City, State, Zip :	Houston TX 77041		
Contact :	Ken Mabry	Title :	
Phone No :	(713) 996-1281	Fax :	(713) 996-1280

SECTION 3: General Description of the Waste

Name of Waste : Non-RCRA wastewater

Detailed Description of the Process Generating Waste:

Wastewater generated from washing petroleum drilling equipment

Physical State : ☑ Liquid ☐ Sludge ☐ Powder
☐ Solid ☐ Filter Cake ☐ Combination

Color : clear to black Odor : none

Specific Gravity (Water=1) : 1.1 Density : 8-9 lbs / gal

Does this material contain any total phenolic compounds? ☐ Yes ☐ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☐ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☐ No

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834	2835	2836	2841	2842	2843	2844	2851
2861	2865	2869	2873	2874	2876	2879	2891	2892	2893	2896	2899	2911	3312	4953	4959	9511

Layers : ☐ Single-Phas ☑ Multi-Phase

Container Type : ☐ Drum ☐ Tote ☑ Truck ☐ Other (explain)

Container Size : 5000

Number Of Units : 1

Is this a USEPA "Hazardous Waste" per 40 CFR 261.3? ☐ Yes ☐ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", Is It: ☐ D001 ☐ D002 ☐ D003

EPAHO103001673

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristics for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☐ No

If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☐ No

If "Yes", then please list ALL applicable codes:

Texas State Waste Code No : 00011191

Proper U.S. State Waste Code No : Non-RCRA/Non DOT regulated wastewater

Class : na UN/NA : na PG : na RQ : na

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200	4-9	0 mg/l	0 mg/l	0-3 %
Oil and Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
>1500 mg/l	<5000 mg/l	na mg/l	na mg/l	na mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
water	91-97	%
oil	1-3	%
grease	1-3	%
drilling mud	1-3	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
TCLP analysis

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generators knowledge

TCLP Metals :

TCLP Volatiles : only benzene- no other volatiles involved in process

TCLP Semi-Volatiles : none in process

Reactivity :

EPAHO103001674

Corrosivity :

Ignitability :

SECTION 9: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge ? ☑ YES ☐ NO

If 'YES', complete this section

PLEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE

Metals Subcategory: ***Subpart A***

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phospha
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: ***Subpart B***

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☑ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory ***Subpart C***

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bering wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations

EPAHO103001675

☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcatego
☑ Oils Subcatego
☐ Organics Subcategory

SECTION 10: Additional Instruction

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☑ analytical data. I hereby cerity that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature : _____ **Date :** 5/23/2007

Printed Name / Title : Joe Colunga / Mech Tech

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Process Facility Information : trans $67/hr; disposal $0.17/gal

Compliance Officer : Prabhakar Thangudu

Date : 5/23/2007 **Status :** Approved Rejected

Approval Number : 2209

EPAHO103001676

Hitemco - Lozano 2210
2210

EPAHO10300167 7

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/24/2007**

Dear **John Winne**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2210

Generator: Hitemco Southwest-Lozano
Address: 6421 Lozano
Houston, TX 77041

Waste Information

Name of Waste: Sandblast grit
TCEQ Waste Code #: CESQ4092
Container Type:
Detailed Description of Process Generating Waste:
Grit blasting of steel components
Color: brown **Odor:** none **pH:** na
Physical State:
Incompatibilities: HF acid
Safety Related Data/Special Handling:
Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Hitemco Southwest		
Address:	6421 Lozano		
City, State, Zip:	Houston, TX 77041		
Contact:	John Winne	**Title:**	Sr. Developmental Engineer
Phone No:	713-466-9655	**Fax No:**	713-466-1762
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	CESQG		
State I.D.	CESQG	**SIC Code:**	

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Sand Blast Grit
Detailed Description of Process Generating Waste: Grit blasting of steel components

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: brown **Odor:** none

Specific Gravity (water=1): 1.6 **Density:** 14 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☒ Tote ☐ Truck ☐ Other (explain)
Container Size: 1 yd

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 1 **Other:**
Texas State Waste Code No: CESQ4902
Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
None	NA	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
<1500mg/l	<1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Sand Blast Grit with metal fines and rust	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Analysis

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
HF Acid

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ____
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 5/24/07

Printed Name/Title: Jothe Wilcox / Director of Operations

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____ Additional Information: 100.00 / BH + Trans

Date: 5-24-07 (Approved) Rejected

Approval Number: 2210 IS

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536
Phone: (281)-476-4534 Fax: (281)-476-4406

CES Environmental Services
4904 Griggs Rd
Houston, TX 77021

Phone (713) 676-1460
Fax: (281) 676-1676

Attn: **Gary Brauckman**

- CERTIFICATE OF RESULTS -

MES Lab#: 5090505

Client Sample ID: Blasting Grit Lozano
Extended ID: Hitemco

Sample Collect Date: 9/8/2005 @ 2:30:00 PM
Sample Receipt Date: 9/14/2005 @ 1:35:00 PM

Sample Type: Grab

Test Group / Method

TCLP Metals (11) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: DCW Date / Time
Antimony	0.032	1	< 0.032	mg/L	9/15/2005 / 8:39 PM
Arsenic	0.014	5	< 0.014	mg/L	9/15/2005 / 8:39 PM
Barium	0.0005	100	**1.52**	**mg/L**	9/15/2005 / 8:39 PM
Beryllium	0.0005	0.08	**0.0005**	**mg/L**	9/15/2005 / 8:39 PM
Cadmium	0.002	1	< 0.002	mg/L	9/15/2005 / 8:39 PM
Chromium	0.002	5	**0.040**	**mg/L**	9/15/2005 / 8:39 PM
Lead	0.005	5	< 0.005	mg/L	9/15/2005 / 8:39 PM
Nickel	0.003	70	**1.42**	**mg/L**	9/15/2005 / 8:39 PM
Selenium	0.024	1	< 0.024	mg/L	9/15/2005 / 8:39 PM
Silver	0.002	5	< 0.002	mg/L	9/15/2005 / 8:39 PM
Vanadium	0.002		< 0.002	mg/L	9/15/2005 / 8:41 PM

TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: DCW Date / Time
Mercury	0.0002	0.2	< 0.0002	mg/L	9/16/2005 / 3:11 PM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Friday, September 16, 2005

Holland D. Gilmore, Laboratory Director **Date**

EPAHO103001683

5090504 - 5090505

MERCURY ENVIRONMENTAL SERVICES
QA/QC REPORT

ANALYTE	MB mg/L	LCS %REC	LCSD %REC	RPD	CCB mg/L	CCV %REC
Antimony	< 0.005	100.6	105.1	4.37	< 0.005	104.7
Arsenic	< 0.002	101.0	99.2	1.80	< 0.002	99.0
Barium	< 0.0002	108.0	103.9	3.87	< 0.0002	98.3
Beryllium	< 0.0002	101.9	101.6	0.34	< 0.0002	102.5
Cadmium	< 0.001	104.3	106.5	2.14	< 0.001	99.4
Chromium	< 0.001	108.0	106.0	1.82	< 0.001	101.7
Lead	< 0.002	104.7	104.0	0.70	< 0.002	97.0
Mercury	< 0.0002	89.0	89.5	0.56	< 0.0002	98.9
Nickel	< 0.001	98.5	103.5	4.95	< 0.001	103.0
Selenium	< 0.024	82.3	77.4	6.11	< 0.024	100.9
Silver	< 0.001	109.4	105.4	3.72	< 0.001	102.2
Vanadium	< 0.001	73.8	75.8	2.74	< 0.001	97.2

Key to QA Abbreviations

MS=Matrix Spike
MSD=Matrix Spike Duplicate
RPD=Relative Percent Deviation
MB=Method Blank
LCS=Laboratory Control Standard
CCV=Continuing Calibration Verification
%Rec=Percent Recovery

Signature: _____ September 16, 2005
Holland D. Gilmore / Laboratory Director

MES - CHAIN OF CUSTODY

Mercury Environmental Services
6913 Hwy. 225 • Deer Park, TX 77536
1-800-771-4MES
(281) 476-4534
Fax (281)-476-4406

1

COMPANY NAME: (BILL TO:) CES Environmental
COMPANY ADDRESS: 4904 Griggs
CITY H STATE TX ZIP 77021
CONTACT PERSON'S NAME: Gary Brauchmann
CONTACT PERSON'S PHONE: 713-417-5737 FAX #: 713-676-1676

2

YOUR PROJECT NO.:	YOUR P.O. #:	YOUR PROJECT NAME:
Nitemco	UBL Gary	Nitemco - Satsuma Lozano

PROJECT ADDRESS:

3

YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATRIX	TCLP (11) Metals							NUMBER OF CONTAINERS	PRESERVATIONS
Blasting Grit Satsuma		9-8-05	3:00	solid	✓								
" " Lozano		9-8-05	2:30	solid	✓								

4 PARAMETERS FOR ANALYSIS

5 REMARKS

TURNAROUND TIME: Standard

DETECTION LIMITS SPECIAL LIMITS REQUIRED
Yes No
Please circle one, if Yes, please describe below or include separate sheet detailing requirements.

Ondice 5C

6

PERSON TAKING SAMPLE SIGNATURE (a. - Print Name & b. - Sign.):
a. Gary Brauchmann [signature]

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

7

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)
[signature]	9-14-05	1:35	[signature]

RELINQUISHED BY: (Signature)	DATE	TIME	RECEIVED BY: (Signature)

METHOD OF PAYMENT	SHIPPED BY: (Signature)	COURIER (Signature)	RECEIVED FOR MES BY: (Signature)	DATE	TIME
			[signature]	9/14	13:35

8

Sample Remainder Disposal
☐ Return Sample Remainder To Client Via _____

☐ I Request Lab To Dispose Of All Sample Remainders
(Signature) _____ (Date) _____

Form # MES - CCRI

WHITE & CANARY – Shipped with Sample PINK – Retained by Customer WHITE – Returned with Report

EPAHO103001685

Stellite

Deloro Stellite

Stellite Coatings
1201 Eisenhower Drive North
Goshen, Indiana 46526
USA
Faye Giesman
Sales Representative

Phone: 800-711-7142
Fax: 574-534-3417
E-Mail: fgiesman@stellitecoatings.com
Web Site: www.stellite.com

Fax

To: Gary **From:** Faye Giesman

Company: CES Environment **Pages:** 9

Fax No: 713-676-1676 **Date:** 4/24/07

Subject: MSDS Alloy: STELLITE 706, STELLITE 1, and STELLITE 712 **c.c.**

CONFIDENTIAL NOTICE:
This fax and the information it contains may be confidential, being intended solely for the use of the named addressee. If you are not the named addressee and/or have received this fax in error, please contact us immediately by telephone or fax. Thank you.

Per our discussion, please find the 1st page of each of the three alloys per the following. The pages 2-6 would be the same for all three as it pertains to MSDS.

Regards,

Faye

Stellite Coatings

1201 Eisenhower Drive North
Goshen, Indiana 46526

Tel: 574-534-2585
Fax: 574-534-3417

MSDS No. 1706 PAGE 1 OF 4

MATERIAL SAFETY DATA SHEET

ORIGINAL DATE	09/29/95
REVISED DATE	02/19/01

SECTION 1 - PRODUCT

TRADE NAME: Stellite 706

ALLOY No.: 1706 CHEMICAL FAMILY: METAL ALLOY

SECTION 2 - INGREDIENT AND EXPOSURE DATA

COMPONENT	% BY WEIGHT	CAS NUMBER	OSHA PEL (mg/cubic meter)	ACGIH TLV (mg/cubic meter)
BORON	-	7440-42-8	NONE	NONE
CARBON	1.15	7440-44-0	2.5	2.0
COBALT	BALANCE	7440-48-4	0.1	0.02
CHROMIUM	27.8	7440-47-3	0.5	0.5
COPPER	-	7440-50-8	DUST 1.0 / FUME .1	DUST 1.0 / FUME .2
IRON	3.0 MAX.	1309-37-1	10.0	5.0 IRON OXIDE DUST/FUME
MANGANESE	1.0 MAX.	7439-96-5	5.0 CL/1.0 FUME	DUST 5.0 / FUME .2
MOLYBDENUM	4.5	7439-98-7	10.0	10.0
NICKEL	3.0 MAX.	7440-02-0	1.0	1.5
SILICON	1.15	7440-21-3	15.0/DUST 5.0	10.0
VANADIUM	-	7440-62-2	DUST .05/FUME .1	.05 as V_2O_5 DUST &FUME
TUNGSTEN	-	7440-33-7	5.0	5.0

SECTION 3 - PHYSICAL CHARACTERISTICS

FREEZE POINT:	DEGREES F	ODOR:	NONE
MELT POINT:	DEGREES F	SPECIFIC GRAVITY:	
APPEARANCE:	GREY POWDER	SOLUBILITY IN H_2O:	NONE

Stellite Coatings

1201 Eisenhower Drive North
Goshen, Indiana 46526

Tel: 574-534-2585
Fax: 574-534-3417

MSDS No. 1010 PAGE 1 OF 4

MATERIAL SAFETY DATA SHEET

ORIGINAL DATE	07/22/85
REVISED DATE	02/19/01

SECTION 1 - PRODUCT

TRADE NAME: Stellite 1

ALLOY No.: 1010 CHEMICAL FAMILY: METAL ALLOY

SECTION 2 - INGREDIENT AND EXPOSURE DATA

COMPONENT	% BY WEIGHT	CAS NUMBER	OSHA PEL (mg/cubic meter)	ACGIH TLV (mg/cubic meter)
BORON	.1	7440-42-8	NONE	NONE
CARBON	2.4	7440-44-0	2.5	2.0
COBALT	BALANCE	7440-48-4	0.1	0.02
CHROMIUM	30.5	7440-47-3	0.5	0.5
COPPER	-	7440-50-8	DUST 1.0 / FUME .1	DUST 1.0 / FUME .2
IRON	3.0 MAX.	1309-37-1	10.0	5.0 IRON OXIDE DUST/FUME
MANGANESE	1.0 MAX.	7439-96-5	5.0 CL/1.0 FUME	DUST 5.0 / FUME .2
MOLYBDENUM	1.0 MAX.	7439-98-7	10.0	10.0
NICKEL	3.0 MAX.	7440-02-0	1.0	1.5
SILICON	1.0	7440-21-3	15.0/DUST 5.0	10.0
VANADIUM	-	7440-62-2	DUST .05/FUME .1	.05 as V_2O_5 DUST &FUME
TUNGSTEN	12.5	7440-33-7	5.0	5.0

SECTION 3 - PHYSICAL CHARACTERISTICS

FREEZE POINT: 2290 DEGREES F	ODOR: NONE
MELT POINT: 2355 DEGREES F	SPECIFIC GRAVITY: 8.69
APPEARANCE: GREY POWDER	SOLUBILITY IN H_2O: NONE

Stellite Coatings

1201 Eisenhower Drive North
Goshen, Indiana 46526

Tel: 574-534-2585
Fax: 574-534-3417

MSDS No. 1712 PAGE 1 OF 4

MATERIAL SAFETY DATA SHEET

ORIGINAL DATE	02/12/98
REVISED DATE	02/19/01

SECTION 1 - PRODUCT

TRADE NAME: Stellite 712

ALLOY No.: 1712 CHEMICAL FAMILY: METAL ALLOY

SECTION 2 - INGREDIENT AND EXPOSURE DATA

COMPONENT	% BY WEIGHT	CAS NUMBER	OSHA PEL (mg/cubic meter)	ACGIH TLV (mg/cubic meter)
BORON	-	7440-42-8	NONE	NONE
CARBON	2.0	7440-44-0	2.5	2.0
COBALT	BALANCE	7440-48-4	0.1	0.02
CHROMIUM	29.0	7440-47-3	0.5	0.5
COPPER	-	7440-50-8	DUST 1.0 / FUME .1	DUST 1.0 / FUME .2
IRON	3.0 MAX.	1309-37-1	10.0	5.0 IRON OXIDE DUST/FUME
MANGANESE	1.5 MAX	7439-96-5	5.0 CL/1.0 FUME	DUST 5.0 / FUME .2
MOLYBDENUM	8.5	7439-98-7	10.0	10.0
NICKEL	3.0	7440-02-0	1.0	1.5
SILICON	1.5 MAX.	7440-21-3	15.0/DUST 5.0	10.0
VANADIUM	-	7440-62-2	DUST .05/FUME .1	.05 as V_2O_5 DUST &FUME
TUNGSTEN	-	7440-33-7	5.0	5.0

SECTION 3 - PHYSICAL CHARACTERISTICS

FREEZE POINT: DEGREES F	ODOR: NONE
MELT POINT: DEGREES F	SPECIFIC GRAVITY:
APPEARANCE: GREY POWDER	SOLUBILITY IN H_2O: NONE

MSDS - ~~Stellite 1~~ P.2-6 (Applicable for all alloys)

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: A grey, odorless metallic powder. Contact with the eyes may be irritating and contact with the skin may cause allergic reactions to some individuals. Inhalation of dusts is harmful and should be avoided.

POTENTIAL HEALTH HAZARDS

Welding Operations	Electric arc or oxy-fuel welding may produce intense arc rays and/or infrared heat rays which are hazardous to the eyes and skin. In addition, such operations may produce noise at levels damaging to hearing. Use of electric arc equipment can present a potential electrocution hazard.

The potential health effects described as chronic effects and in the OSHA carcinogen table in this section cover all potential ingredients in this family of products: Refer to Section 2 (above) for ingredients found in this specific product:

Skin Contact	May cause an allergic skin reaction in some individuals. Handling with bare skin may cause irritation due to the abrasive nature of the metal powder.
Eye Contact	May cause irritation due to the abrasive nature of the metal powder.
Ingestion	Harmful if swallowed. Effects can include a burning sensation, nausea, abdominal pain, vomiting, diarrhea and central nervous system depression.
Inhalation	Inhalation of dusts and welding-generated fumes can cause irritation, chills, cough, fever, nausea, vomiting, weakness and flu-like symptoms. Products containing cobalt may cause an allergic respiratory reaction in sensitized individuals. Excessive inhalation can lead to severe toxic effects up to and including death.
Chronic Effects	Chromium: While insoluble hexavalent chromium compounds are associated with lung damage and lung cancer, however, the chromium metal found in this product is not considered a suspect carcinogen. Cobalt: Cobalt has caused cancer in laboratory animals and is associated with lung injury and effects upon the circulatory system. Nickel metal is considered to be possibly carcinogenic to humans. Long-term overexposure to nickel compounds may cause lung damage (fibrosis or pneumoconiosis). Soreness and itchiness of the nose and change in skin color and/or appearance may also result. Manganese: Repeated inhalation of manganese dust or fume can cause irreversible damage to the central nervous system resulting in symptoms similar to Parkinson's disease. Manganese is also associated with chronic lung disease and potential reproductive effects. Molybdenum: Molybdenum is considered an animal carcinogen based on laboratory test.

Potential Ingredients found on one of the OSHA designated Carcinogen Lists are listed below:

Ingredient Name	NTP Status	IARC Status	OSHA Status
Cobalt metal	-----	2B - Possibly carcinogenic	-----
Nickel metal	Suspect carcinogen	2B - Possibly carcinogenic	-----

SECTION 4 - FIRST AID MEASURES

Skin Contact	Wash with soap and water. Get medical assistance if irritation persists.
Eye Contact	Wash eyes in running water. Get medical assistance if irritation persists.
Ingestion	Do not induce vomiting unless directed to do so by a physician. Get immediate medical assistance.
Inhalation	Remove to fresh air. Get immediate medical assistance if breathing is difficult or has stopped. Get medical assistance for persistent irritation.
Advice to Physician	Treat symptomatically.
Extinguishing Media to Avoid	None (see below)

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SECTION 5 - FIRE FIGHTING MEASURES

Flash Point and Method	None
Autoignition Temperature	Not determined
Upper/Lower/Flame Limits	Not applicable
Extinguishing Media to Use	Use media suitable for surrounding structural fire.
Extinguishing Media to Avoid	None (see below)
Special Fire Fighting Procedures	Avoid skin contact and wear self-contained breathing apparatus to avoid inhalation of dusts or fumes. If material has been mechanically reduced in size, it may burn if involved in a fire. Use dry sand to smother burning metal powder.
Unusual Fire and Explosion Hazards	None normally present.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

In case of spill	Wear appropriate personal protective equipment. Sweep or vacuum up spilled materials and place into containers for use and/or disposal. Dispose of materials contaminated with dirt or any other foreign substance.

Spills may be reportable to the National Response Center or other agencies. See section 15 for 'reportable quantities' (RQs) that may exist.

SECTION 7 - HANDLING AND STORAGE

Use this product in accordance with ANSI Z49.1 "Safety in Welding, Cutting and Allied Processes" and in compliance with OSHA welding regulations, 29CFR1910.252-255 (as appropriate).

Normal Handling	Avoid contact with skin and eyes. Do not breathe product dusts.
Storage	Keep containers closed and store in a dry area. Do not store where contamination with foreign materials may occur. Avoid storage next to acids. If powder particles are reduced in size, they may oxidize or burn if involved in a fire. Avoid storage near sources of combustion.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits for possible Ingredients:

Ingredient	ACGIH-TLV	OSHA PEL	Other Limit
Aluminum metal	10 mg/m³ TWA (as metal dust)	15 mg/m³ TWA (total dust) 5 mg/m³ TWA (respirable dust)	* 5 mg/m³ TWA (as welding fumes)
Boron Metal	None	None	None
Carbon	None established	None established	None established
Chromium metal	0.5 mg/m³ TWA	1 mg/m³ TWA	* 0.5 mg/m³ TWA
Cobalt metal	0.02 mg/m³ TWA	0.1 mg/m³ TWA (dust and fume)	* 0.05 mg/m³ TWA (dust and fume)
Copper metal	0.2 mg/m³ TWA (fume) 1 mg/m³ TWA (dusts and mists)	0.1 mg/m³ TWA (fume) 1 mg/m³ TWA (dusts and mists)	* 0.1 mg/m³ TWA (fume) 1 mg/m³ TWA (dusts and mists)
Iron (as iron oxide)	5 mg/m³ TWA (dust and fume)	10 mg/m³ TWA	* 5 mg/m³ TWA (dust and fume)
Manganese metal	0.2 mg/m³ TWA	5 mg/m³ Ceiling (fume)	* 1 mg/m³ (fume)
Molybdenum metal	10 mg/m³ TWA (inhalable fraction) 3 mg/m³ TWA (respirable fraction)	15 mg/m³ TWA (total dust)	* 5 mg/m³ TWA
Nickel metal	1.5 mg/m³ TWA	1 mg/m³ TWA	* 0.015 mg/m³ TWA
Niobium Metal	None	None	None
Silicon metal	10 mg/m³ TWA	15 mg/m³ TWA (total dust) 5 mg/m³ (respirable)	* 10 mg/m³ TWA (total) 5 mg/m³ TWA (respirable)
Titanium Metal	None	None	None
Tungsten metal	5 mg/m³ TWA 10 mg/m³ STEL	None	5 mg/m³ TWA 10 mg/m³ STEL
Vanadium (as vanadium pentoxide)	0.05 mg/m³ TWA (respirable fraction)	0.5 mg/m³ Ceiling (respirable dust) 0.1 mg/m³ Ceiling (fume)	* 0.05 mg/m³ TWA ceiling 15 min, Total dust, As V
Welding Fumes (produced during use)	5 mg/m³ TWA	None established	* Keep exposures as low as possible

*=NIOSH NIOSH TWA's are based upon a 10 hour day (vs. 8 hrs for OSHA and ACGIH

Engineering Controls	Provide local exhaust ventilation at transfer points and at areas where material is being used in welding operations. Ventilation should maintain exposure levels below the exposure levels listed above.

Personal Protective Equipment

Skin Protection	Wear head, hand, and body protection which help to prevent injury from radiation, sparks, and electrical shock. See ANSI Z49.1. At a minimum this includes welder's gloves and a protective face shield, and may include arm protectors, aprons, hats, shoulder protection, as well as dark substantial clothing. Train the welder not touch live electrical parts and to insulate himself from work and ground.
Eye Protection	Wear helmet or use face shield with filter lens. As a rule of thumb, start with a shade that is too dark to see the weld zone. Then go to the next lighter shade which gives sufficient view of the weld zone. Provide protective screens and flash goggles, if necessary, to shield others.
Respiratory Protection	Use NIOSH approved air-purifying fume respirator or air supplied respirator when welding in confined space or where local exhaust or ventilation does not keep exposure below TLV. Pulmonary Function tests are recommended for users of negative pressure respirators.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Physical State	Gray Powder
Odor	None
Specific Gravity	8.69
Melting Point	2355 °F
Freezing Point	2290 °F
Vapor Pressure	Negligible
pH	Not applicable
Flash Point and Method	None
Autoingnition Temperature	Not applicable
Lower/ Flame Limits	Not applicable

SECTION 10 - STABILITY AND REACTIVITY

Chemical Stability	Material is normally stable.
Conditions to Avoid	Do not allow contact with inorganic acids. Flammable hydrogen gas may be released.
Hazardous Decomposition Products	Oxides of metal components and oxides of organic fluxes used in the welding process may be formed. Inhalation should be avoided.
Possibility of Hazardous Reactions	Material will not polymerize or undergo self-reactions.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity	Boron: LD_{50} (oral, rat) – 650 mg/kg Carbon: LD_{50} (oral, rat) –> 5g/kg Cobalt: LD_{50} (oral, rat) – 6171 mg/kg Manganese: LD_{50} (oral, rat) – 9g/kg Silicon: LD_{50} (oral, rat) – 3160 mg/kg Vanadium Pentoxide (oxidation product of vanadium metal) LD_{50} (oral, rat) – 10 mg/kg
Chronic Toxicity	Chromium: Although hexavalent forms of insoluble chromium are considered to be lung carcinogens, trivalent compounds and chromium metal are not associated with cancer. Cobalt: Cobalt has caused cancer in laboratory animals and is associated with lung injury and effects upon the circulatory system (myocardial effects). Manganese: Repeated inhalation of manganese dust or fume can cause irreversible damage to the central nervous system resulting in symptoms similar to Parkinson's disease. Manganese is also associated with chronic lung disease and reduced reproductive vitality in males (based on studies of male workers in manganese production). Molybdenum: An animal carcinogen. (Lung cancer - rats) Relevance to human health is uncertain. Nickel: Classified as a suspect carcinogen by NTP and as an animal carcinogen by IARC. Chronic exposure is associated with lung damage (fibrosis or pneumoconiosis). Soreness and itchiness of the nose and change in skin color and/or appearance may also result. Nickel can also cause allergic sensitization via contact.

SECTION 12 - ECOLOGICAL INFORMATION

Chromium content classifies this product as hazardous to the environment if discharged. Both chromium and nickel may be persistent in the environment.

SECTION 13 - DISPOSAL CONSIDERATIONS

Is unused product a RCRA Hazardous Waste if discarded?	No
If yes, the RCRA waste identification number is:	----

Always dispose of in accordance with Federal, State and Local regulations.

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SECTION 14 - TRANSPORT INFORMATION

DOT Classification	Not regulated
UN Identification Number	Not applicable
DOT Shipping Description	Not applicable

SECTION 15 - REGULATORY INFORMATION

Toxic Substances Control Act	All ingredients are listed on the Toxic Substances Control Act Inventory of Chemical Substances.
SARA 311 Hazard Class	Immediate, delayed

SARA 313 This product may contain certain toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning Community Right-To-Know Act of 1986 and 40 CFR 372:

Ingredient	C.A.S. No.	Maximum Wt % in this Product
Chromium	7440-47-3	40
Cobalt	7440-48-4	60
Copper	7440-50-8	None
Manganese	7439-96-5	1.0
Nickel	7440-02-0	5

Reportable Quantities and Threshold Planning Quantities: The following possible ingredients have CERCLA/SARA Reportable Quantities (RQs) and/or Threshold Planning Quantities (TPQs).

Ingredient	RQ	TPQ
Chromium	5000 lbs (for particles whose diameter is less than 0.004")	None
Copper	5000 lbs (for particles whose diameter is less than 0.004")	None
Cobalt	1 lb (compounds of cobalt only) Cobalt metal has no RQ	None
Manganese	1 lb (compounds of manganese only) Manganese metal has no RQ	None
Nickel	100 lbs (for particles whose diameter is less than 0.004")	None

State Right to Know Lists: In addition to ingredients listed in section 2, the following information is presented for state right to know purposes.

Ingredient	Comment
Cobalt	Listed on the California Proposition 65 carcinogen list.
Nickel	Listed on the California Proposition 65 carcinogen list.

Foreign Inventory Status:	The ingredients of this product are on the following chemical control inventories: Australia, Canada (DSL), China, European Union, Korea, Phillippines
WHMIS Classification:	D2A - This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

SECTION 16 - OTHER INFORMATION

Changes to this datasheet from previous version:	New MSDS format. Modification of hazards text in section 3, first aid information in section 4. Updated regulatory references and performed a general rewrite of entire MSDS.

NFPA Ratings	Health: 1	Fire: 1	Reactivity: 0
HMIS (III) Ratings	Health: 1	Fire: 1	Physical Hazard: 0

EPAHO103001694

ATLANTIC EQUIPMENT ENGINEERS
HIGH PURITY METALS AND COMPOUNDS

13 Foster St., P.O. Box 181, Bergenfield, NJ 07621
TEL: (800) 486-2436 • FAX: (201) 387-0291

a Division of **MICRON METALS, Inc.**

To:	HITEMCO HOUSTON GARY	From:	Kelly Stephenson kellys@micronmetals.com
Fax:	713-676-1676	Pages:	3
Phone:		Date:	4/24/2007
Re:	SI-102	CC:	

☐ Urgent ☐ For Review X Please Comment x Please Reply ☐ Please Recycle

Dear Gary,

We are pleased to provide you with the following MSDS sheet for Silicon Powder (SI-102). Please contact me if you have any questions.

Regards,

Kelly Stephenson

SI-100-A-102-110-111-112-120-121-122-130

ATLANTIC EQUIPMENT ENGINEERS
13 FOSTER ST.,PO BOX 181
BERGENFIELD,NJ 07621
PH:(201)384-5606 FX:(201)387-0291

FOR EMERGENCIES ONLY
CHEMTREC - (800) 424-9300

HMIS CLASSIFICATIONS:
HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 0

ISSUE DATE: 05/18/00
SUPERSEDES: 12/10/1998

PRODUCT IDENTIFICATION

PRODUCT NAME: **SILICON POWDER**

CHEMICAL NAME: Silicon

CAS NO.: 7440-21-3

SYNONYMS: Polysilicon

CHEMICAL FORMULA: Si

CHEMICAL FAMILY: Nonmetal

SUMMARY OF HAZARDS

Eye irritant.
Causes irritation to respiratory tract.
Dust can be readily ignited.

OSHA HAZARDOUS COMPONENTS

CHEMICAL NAME	CAS NO.	NOTE:	EXPOSURE LIMIT
Silicon	7440-21-3	ND	OSHA 15 mg/m^3 as total dust 8 H TWA 5 mg/m^3 as respirable fraction 8 H TWA ACGIH 10 mg/m^3 8 H TWA

PRODUCT NAME: **SILICON POWDER**

OSHA HAZARDOUS COMPONENTS (Cont.)

NOTE: Carcinogenicity listing of components at concentrations greater than or equal to 0.1% indicated by : @=NTP; #=IARC; &=OSHA; +=ACGIH; *=OTHER; ND=Not designated.

CHEMICAL AND PHYSICAL PROPERTIES

APPEARANCE/ODOR: Fine black powder/no odor

BOILING POINT: 2355E C/4271E F

VAPOR PRESSURE: Not applicable

SOLUBILITY IN WATER: Insoluble

SPECIFIC GRAVITY: 28.086

MELTING POINT: 1410E C/2570E F

DENSITY: 0.34 - 0.58 (range)

FIRE AND EXPLOSION HAZARDS

FLASH POINT/METHOD: Not applicable - See below

FLAMMABLE LIMITS: Not established

EXTINGUISHING MEDIA: Dry chemical, water spray (fog), foam or carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES: None required

UNUSUAL FIRE AND EXPLOSION HAZARDS: Based on combustibility tests, silicon is classified as active. Dust can be readily ignited, propagate flame and generate some pressure and/or a mild explosion. Material transfer and dust collection equipment should be constructed of conductive materials and be electrically interconnected (bonded) and grounded.

REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: Avoid generation of airborne dusts. When heated, silicon will react with water or steam to produce H_2. Violent reaction may occur upon contact with

alkali carbonates.

REACTIVITY DATA *(Cont..)*

MATERIALS TO AVOID: Acids and strong bases

HAZARDOUS POLYMERIZATION: Will not occur

HEALTH HAZARDS

INHALATION: Expected to be irritating to respiratory tract.

EYE CONTACT: Expected to be an eye irritant.

SKIN CONTACT: Not expected to be a skin irritant.

INGESTION: Not expected to be a primary route of exposure.

CHRONIC EFFECTS OF OVEREXPOSURE: None known

EMERGENCY FIRST AID PROCEDURES

INHALATION: If inhaled, remove to fresh air.

EYE CONTACT: Begin immediate eye irrigation with cool water.

SKIN CONTACT: Wash contaminated areas with soap and water.

INGESTION: *If swallowed, give two glasses of water.*

EXPOSURE CONTROL INFORMATION

EXPOSURE LIMITS: See A Hazardous Components section.

PRODUCT NAME: **SILICON POWDER**

EXPOSURE CONTROL INFORMATION (Cont.) .

EYE PROTECTION: Chemical goggles or safety glasses

PROTECTIVE GLOVES: Not required

RESPIRATORY PROTECTION: NIOSH approved dust/mist respirator

MECHANICAL VENTILATION: Recommended

LOCAL EXHAUST VENTILATION: At source of dust

ENVIRONMENTAL PROTECTION

SPILLS OR LEAKS: Sweep or shovel spills into appropriate container for disposal.

DISPOSAL METHODS: Under the CERCLA/RCRA regulations currently in effect, this product is not regulated as a hazardous waste or material. Therefore, it may be disposed of as an industrial waste in a manner acceptable to good waste management practice and in compliance with applicable local, state and federal regulations.

STORAGE REQUIREMENTS: Store in well-ventilated, cool, dry area. Close container when not in use.

REGULATORY INFORMATION:

TSCA: THIS MATERIAL IS IN COMPLIANCE WITH THE TOXIC SUBSTANCES CONTROL ACT (15 USC 2601 - 2629).
DOT DESCRIPTION/PROPER SHIPPING NAME:
Not regulated for transportation.

HAZARD CATEGORIES FOR SARA 311/312 REPORTING ARE INDICATED BELOW:

HEALTH	Immediate (Acute)	Yes
HEALTH	Delayed (Chronic)	No
PHYSICAL	Fire	No
PHYSICAL	Sudden Release of Pressure	No
PHYSICAL	Reactive	No
	Nuisance Mist/Dust Only	Yes

PRODUCT NAME: **SILICON POWDER**

REGULATORY INFORMATION (Cont.)

COMPONENT NAME	CAS NO.	PERCENTAGE	REGULATION
Silicon	7440-21-3	100.0	N.J.R.T.K. PA R.T.K.

MSDS prepared by: Corporate Environment, Safety, & Health Department

FOR ADDITIONAL NONEMERGENCY PRODUCT INFORMATION, CONTACT:

Atlantic Equipment Engineers
Division of Micron Metals, Inc.
13 Foster St. PO Box 181
Bergenfield, NJ 07621
ph: (201) 384-5606 fax: (201) 387-0291

THIS MATERIAL SAFETY DATA SHEET CONTAINS AT LEAST THE INFORMATION REQUIRED BY THE FEDERAL OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200 (g) (2).

Momentum Biofuels 2211
2211

EPAHO103001701

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/24/2007**

Dear **Jason Gehrig**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2211

Generator: Momentum Biofuels
Address: 4700 New West Drive
Pasadena, TX 77507

Waste Information

Name of Waste: Oily water
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Stormwater contaminated with vegetable oil and alcohol
Color: white **Odor:** none **pH:** 5-8
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DC

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Momentum Biofuels		
Address:	4700 New West Drive		
City, State, Zip:	Pasadena, TX 77507		
Contact:	Jim Oneal	**Title:**	COO
Phone No:	281-334-5161	**Fax No:**	281-535-1346
24/hr Phone:	832-309-1786		
U.S. EPA I.D. No:	NA		
State I.D.	NA	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:	Momentum Biofuels		
Address:	2600 South Shore Blvd Suite 100		
City, State, Zip:	League City, TX 77573		
Contact:	Dana Wallace	**Title:**	Accounts Payable
Phone No:	281-535-1346	**Fax No:**	281-334-5161

SECTION 3: General Description of the Waste

Name of Waste: Oily Water
Detailed Description of Process Generating Waste: Stormwater contaminated with vegetable oil and alcohol

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: white **Odor:** none

Specific Gravity (water=1): 1 **Density:** 8.34 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☐ Drum	☐ Tote	☒ Truck	☐ Other (explain)
Container Size:	____	____	5000 gal	____

Frequency: ☒ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 2-5 **Other:** ____
Texas State Waste Code No: Recyclable
Proper U.S. DOT Shipping Name: Non RCRA Non DOT Regulated
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
100-110	5-8	NAmg/l	NAmg/l	0%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>15000mg/l	NAmg/l	NAmg/l	NAmg/l

EPAHO103001703

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Biodiesel	0-5	%
Water	90-95	%
Methanol (alcohol)	0-24	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None Known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 5/24/07

Printed Name/Title: Jim Oneal, COO

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information: RECYCLE
Compliance Officer: Robert Chapa Date: 5-24-07 (Approved) Rejected Approval Number: 2211	$0.18/gal $280/load + fsc notify if TOC > 20,000

May 24 07 02:29p Momentum Biofuels, Inc. 281-474-0560 p.2

EPAHO103001704

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

May 24 07 02:29p Momentum Biofuels, Inc. 281-474-0560 p.3

EPAHO103001705

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

May 24 07 02:29p Momentum Biofuels, Inc. 281-474-0560 p.4

EPAHO103001706

2212 Enterprise - Jacinto
2212

EPAHO103001707

7E
8-4-09
LAB
T-34

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/25/2007**

Dear **Stephen Craig**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2212

Generator: Enterprise products Operating LP-Jacintoport Facility
Address: 15602 Jacintoport Rd
Houston, TX 77015

Waste Information

Name of Waste: Stormwater sludge
TCEQ Waste Code #: 00156092
Container Type: vac box
Detailed Description of Process Generating Waste:
Stormwater sludge from clearing out drinage ditches along property
Color: varies **Odor:** none **pH:** 8.8
Physical State:
Incompatibilities: none known
Safety Related Data/Special Handling:
standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Enterprise Products Operating, L.P. (Jacintoport Facility)		
Address:	15602 Jacintoport Road		
City, State, Zip:	Houston TX 77015		
Contact:	Stephen Craig	**Title:**	Environmental Scientists
Phone No:	281-385-4396	**Fax No:**	281-385-4532
24/hr Phone:	713-320-4591		
U.S. EPA I.D. No:	TXR000032821		
State I.D.	86196/ Waste Code:00156092	**SIC Code:**	5169

SECTION 2: Billing Information – ☐ Same as Above

Company:	Enterprise Products Operating, LP		
Address:	PO Box 573		
City, State, Zip:	Mont Belvieu, TX 77580-0573		
Contact:	Accounts Payable	**Title:**	
Phone No:	281-385-4200	**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Stormwater sludge
Detailed Description of Process Generating Waste: Stormwater sludge from clearing out drainage ditches along property

Physical State: ☐ Liquid ☒ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: varies **Odor:** none

Specific Gravity (water=1): 1-1.3 **Density:** 8.5-9 lbs/gal

Layers: ☐ Single-phase ☒ Multi-phase

Container Type:	☐ Drum	☐ Tote	☐ Truck	☒ Other (explain)
Container Size:	____	____	____	vacuum box

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 5 **Other:** ____
Texas State Waste Code No: 00156092
Proper U.S. DOT Shipping Name: Non RCRA Non DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>160	8.8	0mg/l	0mg/l	80%

Oil&Grease	TOC	Zinc	Copper	Nickel
<1000mg/l	<1000mg/l	0mg/l	0mg/l	0mg/l

EPAHO103001710

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Dirt/silt/rocks	80-100	%
Water	0-20	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Analytical #60509.01

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
none known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ____
TCLP Volatiles: ____
TCLP Semi-Volatiles: ____
Reactivity: ____
Corrosivity: ____
Ignitability: ____

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 05/24/2007

Printed Name/Title: Stephen Craig

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	**Process Facility Information:**
Compliance Officer: _____ Date: 5-29-07 (Approved) Rejected Approval Number: 2212	Redirect to republic $80/yard $375/load OSL

EPAHO103001711

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001712

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001713

ENVIRON EXPRESS LABORATORIES, INC.

401 N. 11th. St.
La Porte, TX 77571
281.471.0951 FAX:281.471.5821

Express Laboratories

CERTIFICATE OF ANALYSIS NO: 60509.01 1of 1

Customer: **CES Env. Svcs.** Sample ID: **Oil Tanking** Environ ID: **60509.01**
Project ID: **Enterprise @ Oil Tanking** Sampled: **05-11-06**
Project Loc: **Oil Tanking** Matrix: **Sludge** Received: **05-11-06**
Charge/P.O.: Type: Reported: **05-18-06**

RECEIVED BASIS

ANALYTE / PARAMETER	RESULT	UNITS	REG. LIMIT	MQL	TEST METHOD	ANALYST	DATE	TIME
RCI								
Reactive Cyanide	< 50	mg/kg	250	50	SW846.7.3.3	LC	05-16-06	10:45
Reactive Sulfide	< 50	mg/kg	500	50	SW846.7.3.4	LC	05-16-06	10:45
Corrosivity (Ph)	8.80	su	=>2; =<12.5	--	SW846.9045C	JT	05-11-06	15:30
Ignitability	> 160	°F	> 140	--	SW846.1010	JK	05-17-06	17:00
METALS (RCRA) - TCLP					SW846.1311	MN	05-11-06	
Arsenic	< 0.02	mg/l	5.00	0.02	SW846.6010B	JK	05-18-06	09:00
Barium	1.25	mg/l	100	0.02	SW846.6010B	JK	05-18-06	09:00
Cadmium	< 0.02	mg/l	1.00	0.02	SW846.6010B	JK	05-18-06	09:00
Chromium	< 0.02	mg/l	5.00	0.02	SW846.6010B	JK	05-18-06	09:00
Lead	< 0.02	mg/l	5.00	0.02	SW846.6010B	JK	05-18-06	09:00
Selenium	< 0.05	mg/l	1.00	0.05	SW846.6010B	JK	05-18-06	09:00
Silver	< 0.05	mg/l	5.00	0.05	SW846.6010B	JK	05-18-06	09:00
Mercury	< 0.002	mg/l	0.200	0.002	SW846.7470A	MN	05-15-06	11:00
VOC - TCLP (Dilution Factor: 1.0)					SW846.1311	MN	05-16-06	
Benzene	< 0.025	mg/l	0.5	0.025	SW846.8260B	JAC	05-16-06	14:02
2-Butanone (MEK)	< 0.125	mg/l	200.0	0.125	SW846.8260B	JAC	05-16-06	14:02
Carbon tetrachloride	< 0.025	mg/l	0.5	0.025	SW846.8260B	JAC	05-16-06	14:02
Chlorobenzene	< 0.025	mg/l	100	0.025	SW846.8260B	JAC	05-16-06	14:02
Chloroform (Trichloromethan	< 0.025	mg/l	6.0	0.025	SW846.8260B	JAC	05-16-06	14:02
1,2-Dichloroethane (EDC)	< 0.025	mg/l	0.5	0.025	SW846.8260B	JAC	05-16-06	14:02
1,1-Dichloroethene	< 0.025	mg/l	0.7	0.025	SW846.8260B	JAC	05-16-06	14:02
Tetrachloroethene	< 0.025	mg/l	0.7	0.025	SW846.8260B	JAC	05-16-06	14:02
Trichloroethene	< 0.025	mg/l	0.5	0.025	SW846.8260B	JAC	05-16-06	14:02
Vinyl chloride	< 0.050	mg/l	0.2	0.050	SW846.8260B	JAC	05-16-06	14:02
SVOC - TCLP(Conc. Factor: 10)					SW846.1311	MN	05-16-06	
1,4-Dichlorobenzene	0.50	mg/l	7.5	0.50	SW846.8270C	JAC	05-16-06	16:27
2,4-Dinitrotoluene	4.00	mg/l	0.13 *	4.00	SW846.8270C	JAC	05-16-06	16:27
Hexachlorobenzene	0.50	mg/l	0.13 *	0.50	SW846.8270C	JAC	05-16-06	16:27
Hexachlorobutadiene	0.50	mg/l	0.50	0.50	SW846.8270C	JAC	05-16-06	16:27
Hexachloroethane	0.50	mg/l	3.0	0.50	SW846.8270C	JAC	05-16-06	16:27
2-Methylphenol (o-Cresol)	0.50	mg/l	(200)	0.50	SW846.8270C	JAC	05-16-06	16:27
3&4-Methylphenol (m&p-Cresol)	0.50	mg/l	(o+m+p)	0.50	SW846.8270C	JAC	05-16-06	16:27
Nitrobenzene	0.50	mg/l	2.0	0.50	SW846.8270C	JAC	05-16-06	16:27
Pentachlorophenol	2.50	mg/l	100	2.50	SW846.8270C	JAC	05-16-06	16:27
Pyridine	0.50	mg/l	5.0	0.50	SW846.8270C	JAC	05-16-06	16:27
2,4,5-Trichlorophenol	0.50	mg/l	400	0.50	SW846.8270C	JAC	05-16-06	16:27
2,4,6-Trichlorophenol	0.50	mg/l	2.0	0.50	SW846.8270C	JAC	05-16-06	16:27

QUALITY CONTROL -- TCLP VOC SURROGATE RECOVERIES

SURROGATE	RESULTS (mg/l)	% RECOVERY	RANGE %
Dibromofluoromethane (SS)	0.046	92	76-114
Toluene-d8 (SS)	0.048	96	80-120
4-Bromofluorobenzene (SS)	0.044	88	80-120

QUALITY CONTROL -- TCLP SVOC SURROGATE RECOVERIES

SURROGATE	RESULTS (mg/l)	% RECOVERY	RANGE %
Nitrobenzene-d5	0.054	108	35-114
2-Fluorobiphenyl	0.056	112	43-116
Terphenyl-d14	0.060	120	33-141
Phenol-d5	0.104	104	21-100
2-Fluorophenol	0.084	84	10-100
2,4,6-Tribromophenol	0.117	117	10-123

Definitions:
TCLP - Toxicity Characteristic Leaching Procedure
REG - Regulatory Limit (User Should Confirm Limi
MQL - Method Quantitation Limit
PPM - Parts Per Million
mg/l - PPM by Volume, mg/kg - PPM by Weight
su - Standard Units
VOC - Volatile Organic Compounds
SVOC - Semivolatile Organic Compounds
** Out of Range
* MDL>REG From high Organic Background, use MSDS or Process Knowledge to verify analytes could not be present above REG

John Keller

John Keller, Ph.D
Laboratory Director

EPAHO103001714

CHAIN OF CUSTODY

ENVIRON Express Laboratories

Page ____ of ____

ENVIRON EXPRESS LABORATORIES, INC.
401 North 11th. St. / La Porte, Texas 77571-3115
(281) 471-0951 / (800) 880-0156
Fax: (281) 471-5821 / After Hours: (281) 844-2308
e-mail: environexp@aol.com

Results To: Matt Bowman	Invoice To: CBS
Company: CBS Environmental	Company:
Address: 4904 Griggs Rd	Address:
City: Houston State: TX Zip: 77021	City: State: Zip:
Phone:	Phone:
Fax:	Fax:
e-Mail:	PO#: Quote#:

TAT (WORKING DAYS) CIRCLE ONE: 1 **(2)** 3 5

LAB LOT #	COC Present? (Yes) No
Shipment Sealed? (Yes) No	Samples Sealed? (Yes) No
Received on Ice? (Yes) No	Samples Intact? (Yes) No
Cooler Temp. (°C) 2°	Preservative Shown? (Yes) No NA
Hold Time OK? (Yes) No	Res. Cl2 Check OK? Yes No (NA)
pH Check OK? Yes No (NA)	COC & Labels Agree? (Yes) No

Remarks & Additional Analyses

Project Name: Enterprise O.I Tanking
Project Location: O.I Tanking
Project No:
Sampler (Print): Steve Strecker
Sampler (Sign):
Sampler Remarks:

EEL USE ONLY (LAB NO.)	SAMPLE ID.	DATE/TIME SAMPLED	[1] MATRIX	(C)OMP / (G)RAB	BTEX (8021)	TPH (TX1005)	RCI	PAH	TOTAL EPA TCLP: VOLATILES	SEMI-VOLS	RCRA 8 METALS
	[2] Cntr. Type		P								
	Number		1								
	Volume		8oz								
	[3] Preservative		1								
60509.01	1) O.I Tanking	5-11-06 11:20	SL				✓		✓	✓	✓
	2)	5 jr									
	3)										
	4)										
	5)										
	6)										
	7)										
	8)										
	9)										
	10)										

Relinquished By: Steve Strecker	Company: CBS	Date/Time: 5-11-06 14:40	Received By:	Company:
Relinquished By:	Company:	Date/Time:	Received By:	Company:
Relinquished By:	Company:	Date/Time:	Received By:	Company:

[1] Matrix Key
S:Soil **W:**Water **WW:**Waste Water **SL:**Sludge **SO:**Solid **SE:**Sediment **L:** Leachate **WI:**Wipe **OR:**Organic **OL:**Oil **DS:**Drum Solid **DL:**Drum Liquid **O:**Other ____

[2] Container Type Key
P:Plastic **G:**Glass **V:**VOA Glass **O:**Other ____

[3] Preservative Key
1:Ice(<4°C) **2:**HCL **3:**H2SO4 **4:**HNO3 **5:**NaOH **6:**NaOH+Zn Acetate **7:**Na2S2O3 **8:**None

Delivery of samples constitutes acceptance of Environ's terms and conditions in the Price Schedule.

5-18-06;11:41AM;Environ ;2814715821 # 2/ 3
EPAHO103001715

Schneider National 2188
Prof # 2188

EPAHO103001716

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/8/2007**

Dear **Bill Galena**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2188

Generator: Schneider National Bulk Carriers
Address: 1415A Penn City Rd
Houston, TX 77015

Waste Information

Name of Waste: Recyclable petroleum solvent
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Removal of heels from RCRA empty containers prior to cleaning
Color: clear/white **Odor:** slight **pH:** neutral
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
none

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Schneider National		
Address:	1415A Penn City Road		
City, State, Zip:	Houston, TX 77015		
Contact:	William Galena	**Title:**	Tank Wash Manager
Phone No:	281-864-6415	**Fax No:**	281-864-6424
24/hr Phone:			
U.S. EPA I.D. No:	TXD982294308		
State I.D.	87070	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Recyclable Petroleum Solvent
Detailed Description of Process Generating Waste: removal of heel from RCRA empty containers prior to cleaning

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: clear white **Odor:** slight

Specific Gravity (water=1): 0.75 **Density:** 8-8.25 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☒	**Drum**	☐	**Tote**	☐	**Truck**	☐ **Other (explain)**
Container Size:		55 gal		____		____	____

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 2 **Other:** ____
Texas State Waste Code No: Recyclable Material
Proper U.S. DOT Shipping Name: Non RCRA Non DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point 151	**pH** neutral	**Reactive Sulfides** NAmg/l	**Reactive Cyanides** NAmg/l	**Solids** 0%
Oil&Grease >100mg/l	**TOC** >1000mg/l	**Zinc** NDmg/l	**Copper** NDmg/l	**Nickel** NDmg/l

SECTION 4: Physical and Chemical Data

[redacted]	[redacted]	[redacted]
The waste consists of the following materials	**Ranges are acceptable**	**or %**
Norpar 12 (petroleum solvent)	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
none

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
see MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: William Galena **Date:** 4-5-07

Printed Name/Title: William Galena

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Maynard Additional Information: $40.00/drum

Date: 5-8-07 Approved Rejected

Approval Number: 2188

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

14958

NORPAR 12 *14958/update/rt3*

EXXON COMPANY, U.S.A.
A DIVISION OF EXXON CORPORATION

DATE ISSUED: 02/22/95
SUPERSEDES DATE: 09/15/93

MATERIAL SAFETY DATA SHEET

EXXON COMPANY, U.S.A. P.O. BOX 2180 HOUSTON, TX 77252-2180

A. IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME
NORPAR 12

PRODUCT CODE
133598 - 00598

PRODUCT CATEGORY
Petroleum Solvent

[illegible]
Clear colorless liquid
Slightly oily odor

MEDICAL EMERGENCY TELEPHONE NUMBER
(713) 656-3424

B. COMPONENTS AND HAZARD INFORMATION

COMPONENTS	CAS NO. OF COMPONENTS	APPROXIMATE CONCENTRATION
Paraffins (petroleum), normal C5-20	64771-72-8	100%

This product contains approximately 98 mass % linear paraffins, primarily C11-C12
This product, as manufactured by Exxon, does not contain polychlorinated biphenyls (PCB's).
All components of this product are listed on the U.S. TSCA inventory.
See Section E for Health and Hazard Information.
See Section H for additional Environmental Information

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS)

Health	Flammability	Reactivity	BASIS
1	2	0	Recommended by Exxon

EXPOSURE LIMIT FOR TOTAL PRODUCT — BASIS
[illegible] ppm (8000 mg/m3) for an 8 hour — Recommended by Exxon
workday

C. PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT
If splashed into the eyes, flush with clean water for 15 minutes or until [illegible]

SKIN
In case of skin contact, remove any contaminated clothing and wash skin with soap and water. Launder or dry-clean clothing before reuse. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

INHALATION
If overcome by vapor, remove from exposure and call a physician immediately. If breathing is irregular or has stopped, start resuscitation, administer oxygen, if available.

INGESTION
If ingested, DO NOT induce vomiting; call a physician immediately.

D. FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (MINIMUM)
COMBUSTIBLE - Per DOT 49 CFR 173.120
66°C (151°F)
ASTM D 93, Pensky Martens Closed Cup

AUTOIGNITION TEMPERATURE
Approximately 204°C (400°F)
ASTM E 659

NOTE: The autoignition temperature of this product is relatively low and is reached during laboratory distillation by ASTM Method D 86. Therefore, if the procedure is interrupted, the distillation flask must be cooled before the contents are exposed to air.

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) - HAZARD IDENTIFICATION

Health	Flammability	Reactivity	BASIS
1	2	0	Recommended by Exxon

HANDLING PRECAUTIONS
This liquid is volatile and gives off invisible vapors. Either the liquid or vapor may settle in low areas or travel some distance along the ground or surface to ignition sources where they may ignite or explode.
Keep product away from ignition sources, such as heat, sparks, pilot lights, static electricity, and open flames.

FLAMMABLE OR EXPLOSIVE LIMITS (APPROXIMATE PERCENT BY VOLUME IN AIR)
Estimated values: Lower Flammable Limit 1.5% Upper Flammable Limit 9.9%

EXTINGUISHING MEDIA AND FIRE FIGHTING PROCEDURES
Foam, water spray (fog), dry chemical, carbon dioxide and vaporizing liquid type extinguishing agents may all be suitable for extinguishing fires involving this type of product, depending on size or potential size of fire and circumstances related to the situation. Plan fire protection and response strategy through consultation with local fire protection authorities or appropriate specialists.
The following procedures for this type of product are based on the recommendations in the National Fire Protection Association's "Fire Protection Guide on Hazardous Materials", Tenth Edition (1991):
Use water spray, dry chemical, foam or carbon dioxide to extinguish the fire. Use water to keep fire-exposed containers cool. If a leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for men attempting to stop a leak. Water spray may be used to flush spills away

from exposures. Minimize breathing of gases, vapor, fumes or decomposition products. Use supplied-air breathing equipment for enclosed or confined spaces or as otherwise needed.

DECOMPOSITION PRODUCTS UNDER FIRE CONDITIONS
Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

"EMPTY" CONTAINER WARNING
"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. For work on tanks refer to Occupational Safety and Health Administration regulations, ANSI Z49.1, and other governmental and industrial references pertaining to cleaning, repairing, welding, or other contemplated operations.

E. HEALTH AND HAZARD INFORMATION

VARIABILITY AMONG INDIVIDUALS
Health studies have shown that many petroleum hydrocarbons and synthetic lubricants pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

EFFECTS OF OVEREXPOSURE (Signs and symptoms of exposure)
High vapor concentrations (greater than approximately 700 ppm, attainable at elevated temperatures well above ambient) are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death.

NATURE OF HAZARD AND TOXICITY INFORMATION
Prolonged or repeated skin contact with this product tends to remove skin oils, possibly leading to irritation and dermatitis; however, based on human experience and available toxicological data, this product is judged to be neither a "corrosive" nor an "irritant" by OSHA criteria.
Product contacting the eyes may cause eye irritation.
Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.
This product is judged to have an acute oral LD50 (rat) greater than 5 g/kg of body weight, and an acute dermal LD50 (rabbit) greater than 3.16 g/kg of body weight.
PRE-EXISTING MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE
Petroleum Solvents/Petroleum Hydrocarbons - Skin contact may aggravate an existing dermatitis.

F. PHYSICAL DATA

The following data are approximate or typical values and should not be used for precise design purposes.

BOILING RANGE
192-217°C (378-423°F)

SPECIFIC GRAVITY (15.6°C/15.6°C)
0.75

MOLECULAR WEIGHT
163

pH
Essentially neutral

POUR, CONGEALING OR MELTING POINT
-21°C (-5°F)
Pour Point by ASTM D 97

VISCOSITY
1.73 cSt @ 25°C (77°F) ASTM D 445

VAPOR PRESSURE
0.7 mm Hg @ 20°C (68°F)
ASTM D 2879

VAPOR DENSITY (AIR = 1)
5.4

PERCENT VOLATILE BY VOLUME
100 @ 1 atm. and 25°C (77°F)

EVAPORATION RATE @ 1 ATM. AND 25°C (77°F) (n-BUTYL ACETATE = 1)
0.03

SOLUBILITY IN WATER @ 1 ATM. AND 25°C (77°F)
Negligible; 0.0001%

G. REACTIVITY

This product is stable and will not react violently with water. Hazardous polymerization will not occur. Avoid contact with strong oxidants such as liquid chlorine, concentrated oxygen, sodium hypochlorite, calcium hypochlorite, etc., as this presents a serious explosion hazard.

H. ENVIRONMENTAL INFORMATION

CLEAN WATER ACT / OIL POLLUTION ACT
This product may be classified as an oil under Section 311 of the Clean Water Act, and under the Oil Pollution Act. Discharges or spills into or leading to surface waters that cause a sheen must be reported to the National Response Center (1-800-424-8802).

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Shut off and eliminate all ignition sources. Keep people away. Recover free product. Add sand, earth or other suitable absorbent to spill area. Minimize breathing vapors. Minimize skin contact. Ventilate confined spaces. Open all windows and doors. Keep product out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas.
Assure conformity with applicable governmental regulations. Continue to observe precautions for volatile, combustible vapors from absorbed material.

THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUTES:

REPORTABLE QUANTITY (RQ), EPA REGULATION 40 CFR 302 (CERCLA Section 102)
No RQ for product or any constituent greater than 1% or 0.1% (carcinogen).
THRESHOLD PLANNING QUANTITY (TPQ), EPA REGULATION 40 CFR 355 (SARA Sections 301-304)
No TPQ for product or any constituent greater than 1% or 0.1% (carcinogen).
TOXIC CHEMICAL RELEASE REPORTING, EPA REGULATION 40 CFR 372 (SARA Section 313)
No toxic chemical is present greater than 1% or 0.1% (carcinogen).

HAZARDOUS CHEMICAL REPORTING, EPA REGULATION 40 CFR 370 (SARA Sections 311-312)

EPA HAZARD CLASSIFICATION CODE:	Acute Hazard	Chronic Hazard	Fire Hazard	Pressure Hazard	Reactive Hazard	Not Applicable
			XXX			

I. PROTECTION AND PRECAUTIONS

VENTILATION
Use only with ventilation sufficient to prevent exceeding recommended exposure limit or buildup of explosive concentrations of vapor in air. No smoking, or use of flame or other ignition sources.

RESPIRATORY PROTECTION
Use supplied-air respiratory protection in confined or enclosed spaces, if needed.

PROTECTIVE GLOVES
Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

EYE PROTECTION
Use splash goggles or face shield when eye contact may occur.

OTHER PROTECTIVE EQUIPMENT
Use chemical-resistant apron or other impervious clothing, if needed, to avoid contaminating regular clothing, which could result in prolonged or repeated skin contact.

WORK PRACTICES / ENGINEERING CONTROLS
Keep containers closed when not in use. Do not store near heat, sparks, flame or strong oxidants. This product reaches its autoignition temperature in the ASTM D 86 laboratory distillation test. Therefore, if the procedure is interrupted, the distillation flask must be cooled before the contents are exposed to air.
In order to prevent fire or explosion hazards, use appropriate equipment. Information on electrical equipment appropriate for use with this product may be found in the latest edition of the National Electrical Code (NFPA-70). This document is available from the National Fire Protection Association, Batterymarch Park, Quincy, Massachusetts 02269.

PERSONAL HYGIENE
Minimize breathing vapor or mist. Avoid prolonged or repeated contact with skin. Remove contaminated clothing; launder or dry-clean before re-use. Remove contaminated shoes and thoroughly clean and dry before re-use. Cleanse skin thoroughly after contact, before breaks and meals, and at end of work period. Product is readily removed from skin by waterless hand cleaners followed by washing thoroughly with soap and water.

J. TRANSPORTATION AND OSHA RELATED LABEL INFORMATION

TRANSPORTATION INCIDENT INFORMATION
For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Materials Incidents.

U.S. DOT HAZARDOUS MATERIALS SHIPPING DESCRIPTION

Bulk packagings (capacity greater than 119 gallons)
Petroleum Distillate, n.o.s., Combustible Liquid, UN 1268, III
Non-bulk packagings (capacity less than or equal to 119 gallons)
Not regulated

OSHA REQUIRED LABEL INFORMATION
In compliance with hazard and right-to-know requirements, where applicable OSHA Hazard Warnings may be found on the label, bill of lading or invoice accompanying this shipment.

DANGER!

COMBUSTIBLE

Note: Product label may contain non-OSHA related information also.

The information and recommendations contained herein are, to the best of Exxon's knowledge and belief, accurate and reliable as of the date issued. Exxon does not warrant or guarantee their accuracy or reliability, and Exxon shall not be liable for any loss or damage arising out of the use thereof.

The information and recommendations are offered for the user's consideration and examination, and it is the user's responsibility to satisfy itself that they are suitable and complete for its particular use. If buyer repackages this product, legal counsel should be consulted to insure proper health, safety and other necessary information is included on the container.

The Environmental Information included under Section H hereof as well as the Hazardous Materials Identification System (HMIS) and National Fire Protection Association (NFPA) ratings have been included by Exxon Company, U.S.A. in order to provide additional health and hazard classification information. The ratings recommended are based upon the criteria supplied by the developers of these rating systems, together with Exxon's interpretation of the available data.

FOR LUBRICANTS TECHNICAL ASSISTANCE CALL: 1-800-443-9966

FOR FUELS TECHNICAL ASSISTANCE CALL: 713-656-4955

FOR AN MSDS OR ASSISTANCE WITH AN MSDS, DIRECT INQUIRIES TO THE ADDRESS BELOW OR CALL:
MARKETING TECHNICAL SERVICES
EXXON COMPANY, U.S.A.
ROOM 2345
P. O. BOX 2180
HOUSTON, TX 77252-2180
(713) 656-5949
IF YOU HAVE AN IMMEDIATE NEED FOR AN MSDS, DIAL 1-800-298-4007 FOR A FAXED COPY.

2189 South Coast Terminals (LaPorte)
Ref # 2189

EPAHO103001728

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/8/2007**

Dear **Darryl Poe**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2189

Generator: South Coast Terminals (La Porte)
Address: 10900 Strang Rd.
La Porte, TX 77571

Waste Information

Name of Waste: Non-haz rinsewater
TCEQ Waste Code #: 99101191
Container Type:
Detailed Description of Process Generating Waste:
Hydroblast water from rinsing polymerized MDI from concrete.
Color: tan **Odor:** musty **pH:** 3-11
Physical State:
Incompatibilities: none known
Safety Related Data/Special Handling:
Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: South Coast - La Porte
Address: 10900 Strang Rd
City, State, Zip: La Porte, TX 77571
Contact: Dan Pham Title:
Phone No: 281 842 1286 Fax No:
24/hr Phone:
U.S. EPA I.D. No: TXD981011486
State I.D. 37710 SIC Code: NA

SECTION 2: Billing Information – Same as Above

Company: Southcoast - Wallisville
Address: 7401 Wallisville Rd
City, State, Zip: Houston, TX 77020
Contact: Darryl Poe Title:
Phone No: 713-672-2401 Fax No: 713-675-8405

SECTION 3: General Description of the Waste

Name of Waste: Non-haz wastewater
Detailed Description of Process Generating Waste: Hydroblast water from rinsing polymerized MDI from concrete

Physical State: ☑ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Tan Odor: Musty

Specific Gravity (water=1): 1 Density 8.34 lbs/gal

Layers: ☐ Single-phase ☑ Multi-phase

Container Type: ☐ Drum ☐ Tote ☑ Truck ☐ Other (explain)
Container Size: ____ ____ Scrug ____

Frequency: ☐ Weekly ☐ Monthly ☑ Quarterly ☐ Yearly
Number of Units (containers): 1 Other: ____

Texas State Waste Code No: 99110191

Proper U.S. DOT Shipping Name: Non DOT regulated

Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point >100	pH 3-11	Reactive Sulfides <50 mg/l	Reactive Cyanides <50 mg/l	Solids 0-2%
Oil&Grease NA mg/l	TOC NA mg/l	Zinc NA mg/l	Copper NA mg/l	Nickel NA mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	98.5 - 99.5	%
Desmodur	.5 - 1.5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

None Known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ✓
TCLP Volatiles: ✓
TCLP Semi-Volatiles: ✓
Reactivity: ✓
Corrosivity: ✓
Ignitability: ✓

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Daryl Poe **Date:** 5/4/07

Printed Name/Title: DARYL F POE

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Magda

Date: 5-8-07 (Approved) Rejected

Approval Number: 2189

Process Facility Information: IL

No pricing provided. Please fill in.

EPAHO103001731

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☑ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☑ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001732

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001733

MATERIAL SAFETY DATA SHEET

Bayer MaterialScience

Bayer MaterialScience LLC
Product Safety & Regulatory Affairs
100 Bayer Road
Pittsburgh, PA 15205-9741
USA

TRANSPORTATION EMERGENCY
CALL CHEMTREC: (800) 424-9300
INTERNATIONAL: (703) 527-3887

NON-TRANSPORTATION
Bayer Emergency Phone: (412) 923-1800
Bayer Information Phone: (800) 662-2927

1. Product and Company Identification

Product Name:	DESMODUR 44V20 L
Material Number:	2492559
Chemical Family:	Aromatic Isocyanate
Chemical Name:	Polymeric *Diphenylmethane Diisocyanate (pMDI)*
CAS-No.:	9016-87-9

2. Hazards Identification

Emergency Overview

WARNING! Color: Brown **Form:** Liquid **Odor:** musty.
Toxic gases/fumes may be given off during burning or thermal decomposition. Closed container may forcibly rupture under exureme heat or when contents have been contaminated with water. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture. Causes respiratory tract irritation. May cause allergic respiratory reaction. Harmful if inhaled. Respiratory sensitizer. Lung damage and respiratory sensitization may be permanent. Causes skin irritation. May cause allergic skin reaction. Skin sensitizer. Animal tests indicate that skin contact alone may lead to allergic respiratory reaction. Causes eye irritation. May cause lung damage.

Potential Health Effects

Primary Routes of Entry: Skin Contact, Inhalation, Eye Contact

Medical Conditions Aggravated by Exposure: Asthma, Respiratory disorders, Skin Allergies, Eczema

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE

Inhalation
Acute Inhalation
For Product: DESMODUR 44V20 L
Diisocyanate vapors or mist at concentrations above the TLV or PEL can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction). Persons with a

EPAHO103001734

preexisting, nonspecific bronchial hyperreactivity can respond to concentrations below the TLV or PEL with similar symptoms as well as asthma attack or asthma-like symptoms. Exposure well above the TLV or PEL may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in lungs). Chemical or hypersensitivity pneumonitis, with flu-like symptoms (e.g., fever, chills), has also been reported. These symptoms can be delayed up to several hours after exposure. These effects are usually reversible.

Chronic Inhalation
For Product: DESMODUR 44V20 L
As a result of previous repeated overexposures or a single large dose, certain individuals may develop sensitization to diisocyanates (asthma or asthma-like symptoms) that may cause them to react to a later exposure to diisocyanates at levels well below the TLV or PEL. These symptoms, which can include chest tightness, wheezing, cough, shortness of breath or asthmatic attack, could be immediate or delayed up to several hours after exposure. Extreme asthmatic reactions can be life threatening. Similar to many non-specific asthmatic responses, there are reports that once sensitized an individual can experience these symptoms upon exposure to dust, cold air or other irritants. This increased lung sensitivity can persist for weeks and in severe cases for several years. Sensitization can be permanent. Chronic overexposure to diisocyanates has also been reported to cause lung damage (including fibrosis, decrease in lung function) that may be permanent.

Skin
Acute Skin
For Product: DESMODUR 44V20 L
Causes irritation with symptoms of reddening, itching, and swelling. Persons previously sensitized can experience allergic skin reaction with symptoms of reddening, itching, swelling, and rash. Cured material is difficult to remove. Contact with MDI can cause discoloration.

Chronic Skin
For Product: DESMODUR 44V20 L
Prolonged contact can cause reddening, swelling, rash, and, in some cases, skin sensitization. Animal tests on MDI indicate skin contact alone may lead to an allergic respiratory reaction.

Eye
Acute Eye
For Product: DESMODUR 44V20 L
Causes irritation with symptoms of reddening, tearing, stinging, and swelling. May cause temporary corneal injury. Vapor or aerosol may cause irritation with symptoms of burning and tearing.

Chronic Eye
For Product: DESMODUR 44V20 L
Prolonged vapor contact may cause conjunctivitis.

Ingestion
Acute Ingestion
For Product: DESMODUR 44V20 L
May cause irritation; Symptoms may include abdominal pain, nausea, vomiting, and diarrhea.

Carcinogenicity:
No Carcinogenic substances as defined by IARC, NTP and/or OSHA

3. Composition/Information on Ingredients

Hazardous Components

Weight %	Components	CAS-No.
40 - 55%	Polymeric Diphenylmethane	9016-87-9

EPAHO103001735

	Diisocyanate (pMDI)	
35 - 45%	4,4'-Diphenylmethane Diisocyanate (MDI)	101-68-8
1 - 5%	Diphenylmethane Diisocyanate (MDI) Mixed Isomers	26447-40-5

4. First Aid Measures

Eye Contact
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Use lukewarm water if possible. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Get medical attention.

Skin Contact
Immediately remove contaminated clothing and shoes. Wash off with soap and water. Use lukewarm water if possible. Wash contaminated clothing before reuse. For severe exposures, immediately get under safety shower and begin rinsing. Get medical attention if irritation develops.

Inhalation
Move to an area free from further exposure. Get medical attention immediately. Administer oxygen or artificial respiration as needed. Asthmatic symptoms may develop and may be immediate or delayed up to several hours. Extreme asthmatic reactions can be life threatening.

Ingestion
Do not induce vomiting. Wash mouth out with water. Do not give anything by mouth to an unconscious person. Get medical attention.

Notes to physician
Eyes: Stain for evidence of corneal injury. If cornea is burned, instill antibiotic/steroid preparation as needed. Workplace vapors could produce reversible corneal epithelial edema impairing vision. Skin: This compound is a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burn. Ingestion: Treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of the compound. Inhalation: Treatment is essentially symptomatic. An individual having a dermal or pulmonary sensitization reaction to this material should be removed from further exposure to any diisocyanate.

5. Fire-Fighting Measures

Suitable Extinguishing Media: dry chemical, carbon dioxide (CO_2), foam, water spray for large fires.

Special Fire Fighting Procedures
Firefighters should wear NFPA compliant structural firefighting protective equipment, including self-contained breathing apparatus and NFPA compliant helmet, hood, boots and gloves. Avoid contact with product. Decontaminate equipment and protective clothing prior to reuse. During a fire, isocyanate vapors and other irritating, highly toxic gases may be generated by thermal decomposition or combustion. Exposure to heated diisocyanate can be extremely dangerous.

Unusual Fire/Explosion Hazards
Closed container may forcibly rupture under extreme heat or when contents are contaminated with water (CO_2 formed). Use cold-water spray to cool fire-exposed containers to minimize the risk of rupture. Large fires can be extinguished with large volumes of water applied from a safe distance, since reaction between water and hot diisocyanate can be vigorous.

EPAHO103001736

6. Accidental release measures

Spill and Leak Procedures
Evacuate non-emergency personnel. Isolate the area and prevent access. Remove ignition sources. Notify management. Put on protective equipment. Control source of the leak. Ventilate. Contain the spill to prevent spread into drains, sewers, water supplies, or soil. Call Bayer at 412-923-1800 for assistance and advice. Major Spill or Leak (Standing liquid): Released material may be pumped into closed, but not sealed, metal container for disposal. Process can generate heat. Minor Spill or Leak (Wet surface): Cover spill area with suitable absorbent material (Kitty Litter, Oil-Dri®, etc). Saturate absorbent material with neutralization solution and mix. Wait 15 minutes. Collect material in open-head metal containers. Repeat applications of decontamination solution, with scrubbing, followed by absorbent until the surface is decontaminated. Check for residual surface contamination. Swype® test kits have been used for this purpose. Apply lid loosely and allow containers to vent for 72 hours to let carbon dioxide (CO_2) escape.

Additional Spill Procedures/Neutralization
Neutralization solutions:
(1) Colorimetric Laboratories Inc. (CLI) decontamination solution.
(2) A mixture of 75% water, 20% non-ionic surfactant (e.g. Poly-Tergent SL-62, Tergitol TMN-10) and 5% n-propanol.
(3) A mixture of 80% water, 20% non-ionic surfactant (e.g. Poly-Tergent SL-62, Tergitol TMN-10).
(4) A mixture of 90% water, 3-8% ammonium hydroxide or concentrated ammonia, and 2% liquid detergent.

Bayer requires that CHEMTREC be immediately notified (800-424-9300) when this product is unintentionally released from its container during its course of distribution, regardless of the amount released. Distribution includes transportation, storage incidental to transportation, loading and unloading. Such notification must be immediate and made by the person having knowledge of the release.

7. Handling and Storage

Storage Temperature:

minimum:	17.78 °C (64 °F)
maximum:	30 °C (86 °F)

Handling/Storage Precautions
Do not breathe vapors, mists, or dusts. Use adequate ventilation to keep airborne isocyanate levels below the exposure limits. Wear respiratory protection if material is heated, sprayed, used in a confined space, or if the exposure limit is exceeded. Warning properties (irritation of the eyes, nose and throat or odor) are not adequate to prevent overexposure from inhalation. This material can produce asthmatic sensitization upon either single inhalation exposure to a relatively high concentration or upon repeated inhalation exposures to lower concentrations. Individuals with lung or breathing problems or prior allergic reactions to isocyanates must not be exposed to vapor or spray mist. Avoid contact with skin and eyes. Wear appropriate eye and skin protection. Wash thoroughly after handling. Do not breathe smoke and gases created by overheating or burning this material. Decomposition products can be highly toxic and irritating. Store in tightly closed containers to prevent moisture contamination. Do not reseal if contamination is suspected.

Further Info on Storage Conditions
Employee education and training in the safe use and handling of this product are required under the OSHA Hazard Communication Standard 29 CFR 1910.1200.

EPAHO103001737

8. Exposure Controls / Personal Protection

4,4'-Diphenylmethane Diisocyanate (MDI) (101-68-8)
US. ACGIH Threshold Limit Values
Time Weighted Average (TWA): 0.005 ppm
US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Ceiling Limit Value: 0.02 ppm, 0.2 mg/m3

Industrial Hygiene/Ventilation Measures
Local exhaust should be used to maintain levels below the TLV whenever MDI is heated, sprayed, or aerosolized. Standard reference sources regarding industrial ventilation (e.g., ACGIH Industrial Ventilation Manual) should be consulted for guidance about adequate ventilation. To ensure that published exposure limits have not been exceeded, monitoring for airborne diisocyanate should become part of the overall employee exposure characterization program. NIOSH, OSHA, Bayer, and others have developed sampling and analytical methods. Bayer methods can be made available, upon request.

Respiratory Protection
Airborne MDI concentrations greater than the ACGIH TLV-TWA (TLV) or OSHA PEL-C (PEL) can occur in inadequately ventilated environments when MDI is sprayed, aerosolized, or heated. In such cases, respiratory protection must be worn. The type of respiratory protection selected must comply with the requirements set forth in OSHA's Respiratory Protection Standard (29 CFR 1910.134). The type of respiratory protection available includes (1) an atmosphere-supplying respirator such as a self-contained breathing apparatus (SCBA) or a supplied air respirator (SAR) in the positive pressure or continuous flow mode, or (2) an air-purifying respirator (APR). If an APR is selected then (a) the cartridge must be equipped with an end-of-service life indicator (ESLI) certified by NIOSH, or(b) a change out schedule, based on objective information or data that will ensure that the cartridges are changed out before the end of their service life, must be developed and implemented. The basis for the change out schedule must be described in the written respirator program. Further, if an APR is selected, the airborne diisocyanate concentration must be no greater than 10 times the TLV or PEL. The recommended APR cartridge is an organic vapor/particulate filter combination cartridge (OV/P100).

Hand Protection
Gloves should be worn., Nitrile rubber showed excellent resistance., Butyl rubber, neoprene and PVC are also effective.

Eye Protection
When directly handling liquid product, eye protection is required. Examples of eye protection include a chemical safety goggle, or chemical safety goggle in combination with a full face shield when there is a greater risk of splash.

Skin and body protection
Avoid all skin contact. Depending on the conditions of use, cover as much of the exposed skin area as possible with appropriate clothing to prevent skin contact.

Medical Surveillance
All applicants who are assigned to an isocyanate work area should undergo a pre-placement medical evaluation. A history of eczema or respiratory allergies such as hay fever, are possible reasons for medical exclusion from isocyanate areas. Applicants who have a history of adult asthma should be restricted from work with isocyanates. Applicants with a history of prior isocyanate sensitization should be excluded from further work with isocyanates. A comprehensive annual medical surveillance program should be instituted for all employees who are potentially exposed to diisocyanates. Once a worker has been diagnosed as sensitized to any isocyanate, no further exposure can be permitted. Refer to the Bayer pamphlet (Medical Surveillance Program for Isocyanate Workers) for additional guidance.

EPAHO103001738

Additional Protective Measures
Emergency showers and eye wash stations should be available. Educate and train employees in the safe use and handling of this product. Follow all label instructions.

9. Physical and chemical properties

Form:	Liquid
Color:	Brown
Odor:	musty
pH:	Not Applicable
Freezing Point:	< 0 °C (< 32 °F) For the active ingredient.
Boiling Point/Range:	Approximately 208 °C (406.4 °F)
Flash Point:	198.89 °C (390 °F) (Pensky-Martens Closed Cup (ASTM D-93))
Vapor Pressure:	< 0.0001 mmHg @ 25 °C (77 °F)
Specific Gravity:	1.24 @ 25 °C (77 °F)
Solubility in Water:	Insoluble - Reacts slowly with water to liberate CO2 gas
Bulk Density:	10.3 lb/gal

10. Stability and Reactivity

Hazardous Reactions
Contact with moisture, other materials that react with isocyanates, or temperatures above 350 F (177 C), may cause polymerization.

Materials to avoid
Water, Amines. Strong bases, Alcohols. copper alloys

Hazardous decomposition products
By Fire and High Heat: hydrogen cyanide: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke, Isocyanate, Isocyanic Acid, Other undetermined compounds

11. Toxicological Information

Toxicity Data for DESMODUR 44V20 L
Toxicity Note
Toxicity data based on polymeric MDI.

Acute Oral Toxicity
LD50: > 2,000 mg/kg (rat, Male/Female)

Acute Inhalation Toxicity
LC50: 490 mg/m3, vapor, 4 h (rat)

Skin Irritation
rabbit. Slightly irritating

Repeated Dose Toxicity
90 Days. inhalation: NOAEL: 1 mg/m3, (rat, Male/Female. 6 hrs/day 5 days/week)
Irritation to lungs and nasal cavity.
2 years. inhalation: NOAEL: 0.2 mg/m3, (rat. Male/Female, 6 hrs/day 5 days/week)
Irritation to lungs and nasal cavity.

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Mutagenicity
Genetic Toxicity in Vitro:
Bacterial - gene mutation assay: negative (Salmonella typhimurium, Metabolic Activation: with/without)

Carcinogenicity
rat, Male/Female, inhalation, 2 Years, 6 hrs/day 5 days/week
Exposure to a level of 6 mg/m3 polymeric MDI was related to the occurrence of lung tumors. This level is significantly over the TLV for MDI.

Developmental Toxicity/Teratogenicity
rat, female, inhalation, gestation days 6-15, 6 hrs/day. NOAEL (teratogenicity): 12 mg/m3. NOAEL (maternal): 4 mg/m3
No Teratogenic effects observed at doses tested. Fetotoxicity seen only with maternal toxicity.

Toxicity Data for 4,4'-Diphenylmethane Diisocyanate (MDI)
Acute Inhalation Toxicity
LC50: 369 mg/m3, 4 hrs (rat, Male/Female)
LC50: > 2240 mg/m3, aerosol, 1 h (rat)

Acute dermal toxicity
LD50: > 10.000 mg/kg (rabbit)

Skin Irritation
rabbit, Draize Test, Slightly irritating

Eye Irritation
rabbit, Draize Test, Slightly irritating

Sensitization
dermal: sensitizer (guinea pig, Maximisation Test (GPMT))
inhalation: sensitizer (Guinea pig)

Repeated Dose Toxicity
90 Days, inhalation: NOAEL: 0.3 mg/m3, (rat, Male/Female, 18 hrs/day, 5 days/week)
Irritation to lungs and nasal cavity.

Mutagenicity
Genetic Toxicity in Vitro:
Ames: (Salmonella typhimurium, Metabolic Activation: with/without)
Positive and negative results were reported. The use of certain solvents which rapidly hydrolyze diisocyanates is suspected of producing the positive mutagenicity results.
Genetic Toxicity in Vivo:
Micronucleus Assay: negative (mouse)

Carcinogenicity
rat, Female, inhalation, 2 Years, 17 hrs/day, 5 days/week
negative

12. Ecological Information

Ecological Data for DESMODUR 44V20 L
Biodegradation
0 %, Exposure time: 28 Days

EPAHO103001740

Bioaccumulation
Rainbow trout, Exposure time: 112 d, < 1 BCF
Does not bioaccumulate.

Acute and Prolonged Toxicity to Fish
LC0: > 1,000 mg/l (Zebra fish (Brachydanio rerio), 96 hrs)
LC0: > 3,000 mg/l (Killifish (Oryzias latipes), 96 h)

Acute Toxicity to Aquatic Invertebrates
EC50: > 1,000 mg/l (Water flea (Daphnia magna), 24 hrs)

Toxicity to Aquatic Plants
NOEC: 1,640 mg/l, End Point: growth (Green algae (Scenedesmus subspicatus), 72 hrs)

Toxicity to Microorganisms
EC50: > 100 mg/l, (Activated sludge microorganisms, 3 hrs)

Additional Ecotoxicological Remarks
Ecotoxicity data based on polymeric MDI

Ecological Data for 4,4'-Diphenylmethane Diisocyanate (MDI)
Acute and Prolonged Toxicity to Fish
LC50: > 500 mg/l (Zebra fish (Brachydanio rerio), 24 hrs)

Acute Toxicity to Aquatic Invertebrates
EC50: > 500 mg/l (Water flea (Daphnia magna), 24 hrs)

13. Disposal considerations

Waste Disposal Method
Waste disposal should be in accordance with existing federal, state and local environmental control laws. Incineration is the preferred method.

Empty Container Precautions
Empty containers retain product residue; observe all precautions for product. Do not heat or cut empty container with electric or gas torch because highly toxic vapors and gases are formed. Do not reuse without thorough commercial cleaning and reconditioning. If container is to be disposed, ensure all product residues are removed prior to disposal.

14. Transportation information

Land transport (DOT)

Proper Shipping Name:	Other regulated substances, liquid, n.o.s. (contains 4,4'-Diphenylmethane Diisocyanate (MDI))
Hazard Class or Division:	9
UN/NA Number:	NA3082
Packaging Group:	III
Hazard Label(s):	Class 9

RSPA/DOT Regulated Components:
4,4'-Diphenylmethane Diisocyanate (MDI)

EPAHO103001741

Reportable Quantity: 11,111 lb

Sea transport (IMDG)
Non-Regulated

Air transport (ICAO/IATA)
Non-Regulated

Additional Transportation Information
When in individual containers of less than the Product RQ, this material ships as non-regulated.

15. Regulatory Information

United States Federal Regulations

OSHA Hazcom Standard Rating: Hazardous

US. Toxic Substances Control Act: Listed on the TSCA Inventory.

US. EPA CERCLA Hazardous Substances (40 CFR 302):
Components
4,4'-Diphenylmethane Diisocyanate (MDI) Reportable quantity: 5,000 lbs

SARA Section 311/312 Hazard Categories:
Acute Health Hazard, Chronic Health Hazard

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):
Components
None

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required:
Components
Polymeric Diphenylmethane Diisocyanate (pMDI)
4,4'-Diphenylmethane Diisocyanate (MDI)

US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261):
If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

State Right-To-Know Information
The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the MSDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

This product contains a trace (ppm) amount of phenyl isocyanate (CAS# 103-71-9) and monochlorobenzene (CAS# 108-90-7) as impurities.

EPAHO103001742

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:

Weight %	Components	CAS-No.
40 - 55%	Polymeric Diphenylmethane Diisocyanate (pMDI)	9016-87-9
35 - 45%	4,4'-Diphenylmethane Diisocyanate (MDI)	101-68-8
1 - 5%	Diphenylmethane Diisocyanate (MDI) Mixed Isomers	26447-40-5

New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists:

Weight %	Components	CAS-No.
40 - 55%	Polymeric Diphenylmethane Diisocyanate (pMDI)	9016-87-9
35 - 45%	4,4'-Diphenylmethane Diisocyanate (MDI)	101-68-8

California Prop. 65:
To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

16. Other Information

NFPA 704M Rating

Health	2
Flammability	1
Reactivity	1
Other	

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

HMIS Rating

Health	2*
Flammability	1
Physical Hazard	1

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe
* = Chronic Health Hazard

Bayer MaterialScience LLC's method of hazard communication is comprised of Product Labels and Material Safety Data Sheets. HMIS and NFPA ratings are provided by Bayer MaterialScience LLC as a customer service.

Contact Person: Product Safety Department
Telephone: (412) 777-2835
MSDS Number: R300271
Version Date: 08/20/2004
Report Version: 1.1

This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge of Bayer MaterialScience LLC. The information in this MSDS relates only to the specific material designated herein. Bayer MaterialScience LLC assumes no legal responsibility for use of or reliance upon the information in this MSDS.

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** TOTAL PAGE.12 **

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Lubrizol – Bayport 2190
Prof # 2190

EPAHO103001745

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/8/2007**

Dear **Jan McClain**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2190

Generator: Lubrizol - Bayport
Address: 12801 Bay Area Blvd. (Attn: Frank Hejtmanek)
Pasadena, TX 77507

Waste Information

Name of Waste: B-215 Product (OS226440)
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Unused product
Color: white **Odor:** slight **pH:** na
Physical State:
Incompatibilities: see MSDS
Safety Related Data/Special Handling:
Material must be heated, lines must be flushed after unloading

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Lubrizol		
Address:	12801 Bay Area Blvd.		
City, State, Zip:	Pasadena,Texas 77507		
Contact:	Frank Hejtmanek	**Title:**	
Phone No:	832-260-7843	**Fax No:**	832-260-7847
24/hr Phone:			
U.S. EPA I.D. No:			
State I.D.		**SIC Code:**	

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: B-215 Product (05226440)
Detailed Description of Process Generating Waste: unused product

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: white **Odor:** slight

Specific Gravity (water=1): 1.1 **Density:** 9 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☐ Drum	☐ Tote	☒ Truck	☐ Other (explain)
Container Size:	5000 Gal			

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly

Number of Units (containers): 1 **Other:**

Texas State Waste Code No: Recyclable

Proper U.S. DOT Shipping Name: Un 1993 Flammable Liquid ~~Toluene~~ n.o.s., (Toluene) class 3, PGII,

Class: 3 **UN/NA:** UN1993 **PG:** II **RQ:** (Benzene, Toluene) 328

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
<100	n/a	N/Amg/l	N/Amg/l	0%

Oil&Grease	TOC	Zinc	Copper	Nickel
>10%mg/l	N/Amg/l	N/Amg/l	N/Amg/l	N/amg/l

EPAHO103001747

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Toluene	10-40	
Polystrene	10-40	
Alkyl Alcohol	10-40	

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Material must be heated, lines must be flushed after unloading ,

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
~~N/A~~ See MS DS

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: N/A
TCLP Volatiles: N/A
TCLP Semi-Volatiles: N/A
Reactivity: N/A
Corrosivity: N/A
Ignitability: N/A

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Leroy Arce / Agent for Gen **Date:** 5/06/07

Printed Name/Title: Leroy Arce

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Barbara Reyna

Date: 5-8-07 (Approved) Rejected

Approval Number: 2190

Process Facility Information: REC
.05 per lb.
750.00 Trans
650.00 Trailer wash ; will go into PEAK tank

EPAHO103001748

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☑ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001749

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001750

LUBRIZOL

Material Safety Data Sheet
OS226440

Prepared according to 29CFR 1910.1200.

1 Chemical Product and Company Identification

The Lubrizol Corporation
29400 Lakeland Boulevard
Wickliffe, Ohio 44092
Tel: (440) 943-4200

This material is to be used for research purposes only under the supervision of a technically qualified individual. The toxicological properties may have not been completely characterized. To determine your responsibilities under the Toxic Substances Control Act (TSCA), please see the Regulatory Information Section. If this material has been supplied to you under the terms of a secrecy or non-analysis agreement, the information included in this MSDS is hereby identified as "Confidential Information."

Product Trade Name	OS226440
CAS Number	Not applicable for mixtures.
Synonyms	None.
Generic Chemical Name	Mixture.
Product Type	Experimental.
Preparation/Revision Date	27 April 2007
Transportation Emergency Phone No.	(CHEMTREC) 1-800-424-9300. Outside the U.S. (703) 527-3887
MSDS No.	24634780-3321234-402710-811103

2 Hazards Identification

Appearance	Clear to amber liquid.
Odor	Mild hydrocarbon
Principal Hazards	**DANGER.** • **FLAMMABLE LIQUID. MAY CREATE A FLASH FIRE HAZARD.** • **HARMFUL IF INHALED.** • **CAUSES EYE IRRITATION.** • **HARMFUL IF ABSORBED THROUGH SKIN.** • **MAY CAUSE SKIN IRRITATION.** • **MAY CAUSE CHRONIC HEALTH EFFECTS. BASED ON DATA WITH LABORATORY ANIMALS.**
Target Organs:	Brain, Central nervous system, Kidney, Liver, Lung, Nervous system

This material is considered hazardous by the OSHA Hazard Communication Standard 29CFR 1910.1200.
See Section 11 for complete health hazard information.

3 Composition/Information on Ingredients

Hazardous Ingredients

EPAHO103001751

Comp	CAS No.	Percentage (by wt.)	Carcinogen
Toluene	108-88-3	From 10 to 100 percent	N/E
Polystyrene	Confidential.	From 10 to 100 percent	N/E
Alkyl alcohol	111-27-3	From 0 to 10.0 percent	N/E

(N/E) - None established

4 First Aid Measures

Eyes Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice / attention.

Skin Wash with soap and water. If skin irritation occurs, get medical attention. Launder contaminated clothing before reuse.

Inhalation Remove exposed person to fresh air if adverse effects are observed. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. If irritation persists or if toxic symptoms are observed, get medical attention.

Oral DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. Get immediate medical attention.

Additional Information If exposed or concerned: Get medical attention.

5 Fire Fighting Measures

Flash Point > 4 °C, 39.2 °F COC (Minimum)

Extinguishing Media CO2, dry chemical, or foam. Water can be used to cool and protect exposed material.

Firefighting Procedures Recommend wearing self-contained breathing apparatus. Water may cause splattering.

Unusual Fire & Explosion Hazards None known.

6 Accidental Release Measures

Spill Procedures Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Remove sources of ignition. Ventilate area if spilled in confined space or other poorly ventilated areas. Prevent entry into sewers and waterways. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material.

7 Handling and Storage

Pumping Temperature Not determined.

Maximum Handling Temperature Not determined.

Handling Procedures Open container in a well ventilated area. Avoid breathing vapors. Keep containers closed when not in use. Avoid breathing dust, fume, gas, mist, vapors or spray. Wash thoroughly after handling. Empty container contains product residue which may exhibit hazards of product.

Maximum Storage Temperature Not determined.

Storage Procedures Store in well ventilated place.

Loading Temperature Not determined.

8 Exposure Controls/Personal Protection

Exposure Limits

	Exposure Guidelines

Comp	OSHA		ACGIH		Other	
	TWA	STEL	TWA	STEL	TWA	STEL
Toluene	200 ppm	300 ppm (c)	50 ppm (s)	N/E	N/E	N/E

(s) - Skin exposure
(p) - Proposed limit
(c) - Ceiling exposure
(l) - Recommended exposure limit
(u) - Supplier recommended exposure limit
(N/E) - None established

Other Exposure Limits Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter.

Engineering Controls Use material in well ventilated area only. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.

Gloves Procedures Viton. Polyvinyl alcohol. Note: polyvinyl alcohol gloves are water soluble and should not be used when there is potential for water contact.

Eye Protection Safety Glasses.

Respiratory Protection Use NIOSH/MSHA approved full face respirator with a combination organic vapor and high efficiency filter cartridge if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.

Clothing Recommendation Gloves, coveralls, apron, boots as necessary to minimize contact. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction. Launder contaminated clothing before reuse.

9 Physical and Chemical Properties

Flash Point > 4 °C, 39.2 °F COC (Minimum)
Upper Flammable Limit Not determined.
Lower Flammable Limit Not determined.
Autoignition Point Not determined.
Explosion Data Material does not have explosive properties.
Vapor Pressure Not determined.
pH Not determined.
Specific Gravity 0.9 (15.6 °C)
Bulk Density Not determined.
Water Solubility Insoluble.
Percent Solid Not determined.
Percent Volatile Unknown.
Volatile Organic Compound Not determined.
Vapor Density Not determined.
Evaporation Rate Not determined.
Odor Mild hydrocarbon
Appearance Clear to amber liquid.
Viscosity Unknown.
Odor Threshold Unknown.
Boiling Point Not determined.
Pour Point Temperature Not determined.
Melting / Freezing Point Not determined.

EPAHO103001753

The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise noted.

10 Stability and Reactivity

Stability	Material is normally stable at moderately elevated temperatures and pressures.
Decomposition Temperature	Not determined.
Incompatibility	Oxidizing agents.
Polymerization	Will not occur.
Thermal Decomposition	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion.
Conditions to Avoid	Not determined.

11 Toxicological Information

-- ACUTE EXPOSURE --

Eye Irritation	Moderate to strong eye irritation. Based on data from components or similar material.
Skin Irritation	May cause skin irritation. Based on data from components or similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.
Respiratory Irritation	Nose, throat and lung irritant. Based on data from components or similar materials.
Dermal Toxicity	The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials. Components of this material are absorbed through the skin.
Inhalation Toxicity	High concentrations may cause headaches, dizziness, nausea, stupor, and other central nervous system effects leading to visual impairment, difficulty breathing and convulsions.
Oral Toxicity	The LD50 in rats is > 5000 mg/kg. Based on data from components or similar materials. Swallowing this material causes irritation of mouth, esophagus and stomach, with nausea, vomiting, diarrhea and abdominal pain. Ingestion may cause CNS depression.
Dermal Sensitization	No data available to indicate product or components may be a skin sensitizer.
Inhalation Sensitization	No data available to indicate product or components may be respiratory sensitizers.

-- CHRONIC EXPOSURE --

Chronic Toxicity	Repeated overexposure to toluene may cause loss of appetite, liver enlargement, and kidney and lung damage. Repeated inhalation of hydrocarbon solvents such as toluene can cause chronic neurological disturbances. Chronic exposure to toluene has been shown to cause hearing loss in animal experiments. The effect may be potentiated by acetyl salicylic acid and n-hexane to produce irreversible auditory damage. Prolonged and repeated exposure to toluene may cause color vision loss in humans.
Carcinogenicity	This product is formulated with mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Reproductive Toxicity	No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
Teratogenicity	Prolonged and repeated exposure of pregnant animals to toluene by inhalation has been reported to cause adverse fetal developmental effects.

-- ADDITIONAL INFORMATION --

Other	No other health hazards known.

12 Ecological Information

EPAHO103001754

-- ENVIRONMENTAL TOXICITY --

Freshwater Fish Toxicity	Chronic effects expected at 10 - 100 mg/L based on component data.
Freshwater Invertebrates Toxicity	Not determined.
Algal Inhibition	Not determined.
Saltwater Fish Toxicity	Not determined.
Saltwater Invertebrates Toxicity	Not determined.
Bacteria Toxicity	Not determined.
Miscellaneous Toxicity	Not determined.

-- ENVIRONMENTAL FATE --

Biodegradation	Adequate data is not available to estimate the biodegradation potential of this material.
Bioaccumulation	There is no data available to evaluate this material for bioconcentration.
Soil Mobility	Not determined.

13 Disposal Consideration

Waste Disposal

This material, if discarded, is a hazardous waste under RCRA Regulation 40 CFR 261. Waste management should be in compliance with federal, state and local laws. Material, if discarded, is expected to be hazardous waste under RCRA due to ignitability (D001).

14 Transport Information

ICAO/IATA (US)	UN1993 Flammable liquid, n.o.s. (Toluene), Class 3, PG II
ICAO/IATA (International)	UN1993 Flammable liquid, n.o.s. (Toluene), Class 3, PG II
IMDG	UN1993 Flammable liquid, n.o.s. (Toluene), Class 3, PG II
IMDG EMS Fire	F-E
IMDG EMS Spill	S-E
IMDG MFAG	*Subsection 4.2
IMO Marine Vessel	DO NOT TRANSPORT - ADDITIONAL INFORMATION REQUIRED
U.S. Barge	DO NOT TRANSPORT - ADDITIONAL INFORMATION REQUIRED
USCG Compatibility	Not determined.
U.S. DOT Bulk	UN1993 Flammable liquid, n.o.s. (Toluene) Class 3, PG II, RQ (Benzene, Toluene)
U.S. DOT Non-Bulk	UN1993 Flammable liquid, n.o.s. (Toluene) Class 3, PG II
DOT NAERG	128
TDG Bulk	UN1993 Flammable liquid, n.o.s. (Toluene), Class 3, PG II
TDG Non-Bulk	UN1993 Flammable liquid, n.o.s. (Toluene), Class 3, PG II
Mexico	UN1993 Flammable liquid, n.o.s. (Toluene), Class 3, PG II
Mexico Non-Bulk	UN1993 Flammable liquid, n.o.s. (Toluene), Class 3, PG II
Bulk Quantity	85000 liters, 22457 gal.
Non-Bulk Quantity	207.8 liters, 55 gal.

Review classification requirements before shipping materials at elevated temperatures.

15 Regulatory Information

-- Global Chemical Inventories --

USA	All components of this material are on the US TSCA Inventory or are exempt.
Other TSCA Reg.	Section 8D (Benzene, methyl-).
EU	All components are in compliance with the EC Seventh amendment Directive 92 /32/EEC.
Japan	All components are in compliance with the Chemical Substances Control Law of Japan.
Australia	All components are in compliance with chemical notification requirements in Australia.
Canada	All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.
Switzerland	All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.
Korea	All components are in compliance in Korea.
Philippines	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).
China	All components of this product are listed on the Inventory of Existing Chemical Substances in China.

-- Other U.S. Federal Regulations --

SARA Ext. Haz. Subst. This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.

SARA Section 313 40.7% Toluene, CAS no. 108-88-3

SARA 311 Classifications

Acute Hazard	Yes
Chronic Hazard	Yes
Fire Hazard	Yes
Reactivity Hazard	No

CERCLA Hazardous Substances

Transit Reportable Quantities

Component	Reportable Quantity RQ	Units	Reportable Quantity RQ	Units
Toluene	328	gal.	1240	liters
Benzene	16253	gal.	61518	liters

FDA Approval Not applicable.

-- State Regulations --

Cal. Prop. 65 This product contains the following chemical(s) known to the state of California to cause cancer and/or birth defects: 82 ppm Benzene, CAS no. 71-43-2 40.7% Toluene, CAS no. 108-88-3

-- Product Registrations --

U.S. Fuel Registration	Not applicable.
U.S. Dept of Agriculture	This product has not been filed with the USDA to support H2 approvals.
NSF Nonfood Compounds Registration	This product has not been filed with the NSF to support H1 or H2 approvals.
Finnish Registration Number	Not Registered
Swedish Registration Number	Not Registered
Norwegian Registration Number	Not Registered
Danish Registration Number	Not Registered
Swiss Registration Number	Not Registered
Italian Registration Number	Not Registered
Korean Registration Number	Not Registered
New Zealand Registration Number	Not Registered

EPAHO103001756

-- Other / International --

TDG Regulated Limit. None known.
U.S. Tariff Heading Number Not determined.
Schedule B Number Not determined.

16	Other Information

US NFPA Codes

Health	Fire	Reactivity	Special
2	3	0	N/E

(N/E) - None established

HMIS Codes

Health	Fire	Reactivity
2 *	3	0

Precautionary Labels **DANGER.**

- **FLAMMABLE LIQUID. MAY CREATE A FLASH FIRE HAZARD.**
- **HARMFUL IF INHALED.**
- **CAUSES EYE IRRITATION.**
- **HARMFUL IF ABSORBED THROUGH SKIN.**
- **MAY CAUSE SKIN IRRITATION.**
- **MAY CAUSE CHRONIC HEALTH EFFECTS. BASED ON DATA WITH LABORATORY ANIMALS.**

Revision Indicators This MSDS has no revisions since 27 April 2007

The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of The Lubrizol Corporation's knowledge; however, The Lubrizol Corporation makes no warranty whatsoever, expressed or implied of MERCHANTABILITY OR FITNESS FOR THE PARTICULAR PURPOSE, regarding the accuracy of such data or the results to be obtained from use thereof. The Lubrizol Corporation assumes no responsibility for injury to recipient or to third persons or for any damage to any property and recipient assumes all such risks.

Texas Oil Tools, NOV (Grant)
Prof# 2191

EPAHO103001758

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/9/2007**

Dear **Robert Ybarra**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2191

Generator: Texas Oil Tools, NOV (Conroe)
Address: 700 Conroe Park North
Conroe, TX 77303

Waste Information

Name of Waste: Used absorbent pads, booms, and rags
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Used to contain and cleanup spills of coolant and oil
Color: various **Odor:** oil like **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Texas Oil Tools, NOV		
Address:	700 Conroe Park North		
City, State, Zip:	Conroe, TX 77303		
Contact:	Robert Ybarra	**Title:**	HSE Manger
Phone No:	936-520-5326	**Fax No:**	
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	TX CESQG		
State I.D.	CESQG	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Texas Oil Tools, NOV		
Address:	P.O. Box 2488		
City, State, Zip:	Conroe, TX 77305-2488		
Contact:	Robert Ybarra	**Title:**	HSE Manager
Phone No:	936-520-5326	**Fax No:**	936-756-4809

SECTION 3: General Description of the Waste

Name of Waste: Used absorbent pads, booms and rags
Detailed Description of Process Generating Waste: used to contain and clean up spills of coolant and oil

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: various **Odor:** oil like

Specific Gravity (water=1): 1.1 **Density:** 9 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☒	**Drum**	☐	**Tote**	☐	**Truck**	☒ **Other (explain)**
Container Size:		55 gal		____		____	Sack in tote

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 1-3 **Other:** ____
Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point >140	**pH** neutral	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 95-100%
Oil&Grease >1500mg/l	**TOC** >1500mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

EPAHO103001760

SECTION 4: Physical and Chemical Data

The waste consists of the following materials	Ranges are acceptable	or %
Absorbent pads, booms and rags	95-99	%
Coolant with oil	1-10	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	X
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Robert Ybarra **Date:** 5/9/07

Printed Name/Title: Robert Ybarra HSE Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Ybarra

Date: 5-9-07 Approved Rejected

Approval Number: 2191

Additional Information: $40/dm ; $250 trans

EPAHO103001761

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

JR6B

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

Waste Profile Re-Certification Form

CES Waste Approval #: **HOU-2191**

Customer: **Texas Oil Tools, NOV (Conroe)**

Waste Generator: **Texas Oil Tools, NOV (Conroe)**

Waste Stream Name: **Used absorbent pads, booms, and rags**

Expiration Date: **5/9/2009**

As per our waste analysis plan, CES Environmental Services, Inc. requires recertification of all approved waste profiles on an annual basis. The purpose of this form is to confirm that no changes have been made in the generation process of the aforementioned waste stream and that the waste stream remains classified as non-hazardous as per 40 CFR 261.3.

Generator hereby certifies that the components in the aforementioned waste stream and the process generating this waste stream remain the same as when issued the aforementioned CES Waste Approval Number: (Check Appropriate Box)

No changes, please recertify.

Please send new profile as waste stream has changed.

Analysis is NOT required for recertification.

The following analysis is required for recertification. Please sumbit results of the following tests.

TCLP Metals
TCLP Volatiles
TCLP Semi-volatiles
Reactivity
Corrosivity
Ignitability

✓

Texas Oil Tools NOV
Customer Name

Debbie Pearson
Signature

HSEQ Compliance, TOT
Company / Title

4/28/09 4-28-09
Date

Enterprise Products 2192
Proof # 2192

EPAHO103001764

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/9/2007**

Dear **Mike Tomerlin**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2192

Generator: Enterprise Products Operating, L.P. [Splitter III]
Address: 316 S. Main
Mont Belvieu, TX 77580

Waste Information

Name of Waste: Sulfuric acid
TCEQ Waste Code #: Product
Container Type:
Detailed Description of Process Generating Waste:
Sulfuric acid
Color: pale **Odor:** odorlesss **pH:** na
Physical State:
Incompatibilities: Water, metals, organic materials, strong reducng agents, bases
Safety Related Data/Special Handling:
Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company : Enterprise Products Operating L.P.
Address : 316 S main St Attn Rachel Wiseman
City, State, Zip : mont Belvieu
Contact : mike Tomerlin Title :
Phone No : 281-385-4310 Fax : 281-385-4532
24 / HR Phone :
U.S EPA I.D No : TXT 490013455
State I.D : 31038 SIC Code NA

SECTION 2: Billing Information

Company : Enterprise Products operating L.P.
Address : P.O Box 573
City, State, Zip : mont. Belvieu
Contact : mike Tomerlin Title :
Phone No : 281-385-4310 Fax :

SECTION 3: General Description of the Waste sulfuric acid
Name of Waste : Sulfuric Acid

Physical State : ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color : pale Odor : odorless
Specific Gravity (Water=1) : 1.84 Density : 15.3 lbs / gal
Layers : ☒ Single-Phas ☐ Multi-Phase
Container Type : ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size : 55
Number Of Units : 5
Texas State Waste Code No : Product
Proper U.S. State Waste Code No : Sulfuric Acid UN1830 8 PG II
Class : 8 UN/NA : 1830 PG : II RQ : 1000

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
N/A	N/A	N/A mg/l	N/A mg/l	N/A %
Oil and Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
N/A mg/l	N/A mg/l	N/A mg/l	N/A mg/l	N/A mg/l

EPAHO103001766

SECTION 4: Physical and Chemical Data

Sulfuric Acid 90-95%
Water 2-10%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

~~Standard PPE~~ Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Water, metals, organic materials, strong reducing agents, bases

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generators knowledge

TCLP Metals : ✓
TCLP Volatilies : ✓
TCLP Semi-Volatiles : ✓
Reactivity : -
Corrosivity : ✓
Ignitability : ✓

SECTION 9: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data. I hereby cerity that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature : None required Date : 5/9/07

Printed Name / Title : _____

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer : Barbara Thompson

Date : 5-9-07 Status : Approved Rejected

Approval Number : 2192

Special Pricing / Analytical Info:
$200 4 Years Product
$200 Recycle

Recommended Treatment:

EPAHO103001767

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge ? ☐ YES ☑ NO

If 'YES', complete this section

PLEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE

Matals Subcategory: ***Subpart A***

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phospha
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: ***Subpart B***

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory ***Subpart C***

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bering wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

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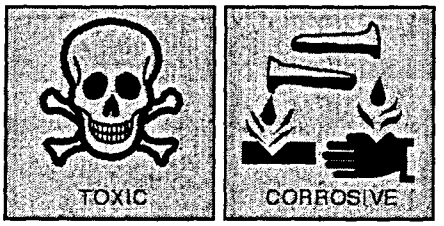
Safety data for sulfuric acid (concentrated)



Click here for data on sulfuric acid in student-friendly format, from the HSci project

Glossary of terms on this data sheet.

The information on this web page is provided to help you to work safely, but it is intended to be an overview of hazards, not a replacement for a full Material Safety Data Sheet (MSDS). MSDS forms can be downloaded from the web sites of many chemical suppliers.

General

Synonyms: oil of vitriol, mattling acid, vitriol, battery acid, dipping acid, electrolyte acid, vitriol brown oil, sulphuric acid
Molecular formula: H_2SO_4
CAS No: 7664-93-9
EC No: 231-639-5
EC index No: 016-020-00-8

Physical data

Appearance: Colourless oily liquid
Melting point: -2 C
Boiling point: 327 C
Specific gravity: 1.84
Vapour pressure: <0.3 mm Hg at 20 C (vapour density 3.4)
Flash point:
Explosion limits:
Autoignition temperature:
Water solubility: miscible in all proportions

Stability

Stable, but reacts with moisture very exothermically, which may enhance its ability to act as an oxidizing agent. Substances to be avoided include water,

EPAHO103001769

most common metals, organic materials, strong reducing agents, combustible materials, bases, oxidising agents. Reacts violently with water - when diluting concentrated acid, carefully and slowly add acid to water, not the reverse. Reaction with many metals is rapid or violent, and generates hydrogen (flammable, explosion hazard).

Toxicology

Extremely corrosive, causes serious burns. Highly toxic. Harmful by inhalation, ingestion and through skin contact. Ingestion may be fatal. Skin contact can lead to extensive and severe burns. Chronic exposure may result in lung damage and possibly cancer.

Toxicity data
(The meaning of any abbreviations which appear in this section is given here.)
IHL-RAT LC50 0.51 mg/l
UNR-MAN LDLO 135 mg kg^{-1}
ORL-RAT LD50 2140 mg kg^{-1} (25% solution)
IHL-MUS LC50 320 mg m^{-3} / 2h
IHL-GPG LC50 18 mg m^{-3}

Risk phrases
(The meaning of any risk phrases which appear in this section is given here.)
R23 R24 R25 R35 R36 R37 R38 R49.

Transport information

(The meaning of any UN hazard codes which appear in this section is given here.)
UN No 1830. IMDG class 8. Packing group II. UK transport category 2.

Personal protection

Safety glasses or face mask; acid-resistant gloves. Suitable ventilation. In the UK use of this material must be assessed under the COSHH regulations.

Safety phrases
(The meaning of any safety phrases which appear in this section is given here.)
S23 S30 S36 S37 S39 S45.

[Return to Physical & Theoretical Chemistry Lab. Safety home page.]

EPAHO103001770

Houston Dynamic Services, Inc. 2193
Prof # 2193

EPAHO103001771

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/11/2007**

Dear **Zac or Dave**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2193

Generator: Houston Dynamic Service, Inc
Address: 8150 Lawndale
Houston, TX 77012

Waste Information

Name of Waste: Recyclable oily water
TCEQ Waste Code #: Recycle
Container Type: 5 gal pails
Detailed Description of Process Generating Waste:
Used and unused oils mixed w/rainwater
Color: orange **Odor:** mild **pH:** na
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
na

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DM

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Houston Dynamic Service, Inc
Address: 5150 Lawndale
City, State, Zip: Houston, TX 77023
Contact: Alton Johnson Title: Shop Supervisor
Phone No: 713-928-6200 Fax No: 713-928-2903
24/hr Phone: 281-541-4809
U.S. EPA I.D. No: TXCESQG
State I.D. 771692 SIC Code: NA

SECTION 2: Billing Information – ☐ Same as Above

Company: CMG Services
Address: 10707 Hmea Egypt
City, State, Zip: Montgomery, TX 77316
Contact: Traci Fisher Title: Office Mgr
Phone No: 936-483-3602 Fax No: 936-483-3624

SECTION 3: General Description of the Waste

Name of Waste: Recyclable Oily Water
Detailed Description of Process Generating Waste: used & unused oils mixed w/ rain water

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Orange Odor: N.D

Specific Gravity (water=1): 1 Density: 8 lbs/gal

Layers: ☒ Single-phase ☑ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☒ Other (explain)
Container Size: 55 ____ ____ 5-gallpail

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): ____ Other: ____
Texas State Waste Code No: Recycable Used Oil & water
Proper U.S. DOT Shipping Name: N/A
Class: ____ UN/NA: ____ PG: ____ RQ: ____

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
7200 F	N/A	0 mg/l	0 mg/l	0 %
Oil&Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
7150 mg/l	0 mg/l	0 mg/l	0 mg/l	0 mg/l

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SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Oil	0-100	%
Water	0-80	%
Diesel	0-50	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

N/A standard

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

N/A oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ___
TCLP Volatiles: ___
TCLP Semi-Volatiles: ___
Reactivity: ___
Corrosivity: ___
Ignitability: ___

SECTION 9: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 4/23/07

Printed Name/Title: Zac McNaughan

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert R Thayer

Date: 5-11-07 Approved Rejected

Approval Number: 2193

Additional Information: .12/gal $150 min

$67/hr Trans

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☒ YES ☐ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☒ Used oils
- ☒ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

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(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☒ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

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ExxonMobil

602987-00 MOBIL SHC 632
MATERIAL SAFETY DATA BULLETIN

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1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL SHC 632
SUPPLIER: EXXONMOBIL OIL CORPORATION
3225 GALLOWS RD.
FAIRFAX, VA 22037

24 - Hour Health and Safety Emergency (call collect): 609-737-4411

24 - Hour Transportation Emergency:
CHEMTREC: 800-424-9300 202-483-7616
LUBES AND FUELS: 281-834-3296

Product and Technical Information:
Lubricants and Specialties: 800-662-4525 800-443-9966
Fuels Products: 800-947-9147
MSDS Fax on Demand: 713-613-3661
MSDS Internet Website: http://www.exxon.com, http://www.mobil.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: SYN. HYDROCARBONS AND ADDITIVES

GLOBALLY REPORTABLE MSDS INGREDIENTS:

None.

See Section 8 for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION

Under normal conditions of use, this product is not considered hazardous according to regulatory guidelines (See section 15).

EMERGENCY OVERVIEW: Orange Liquid. DOT ERG No. : NA

POTENTIAL HEALTH EFFECTS: Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation.

For further health effects/toxicological data, see Section 11.

---

4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.

SKIN CONTACT: Wash contact areas with soap and water. Remove and clean oil soaked clothing daily and wash affected area. (See Section 16 - Injection Injury)

INHALATION: Not expected to be a problem. However, if respiratory irritation, dizziness, nausea, or unconsciousness occurs due to excessive vapor or mist exposure, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or mouth-to-mouth resuscitation.

INGESTION: Not expected to be a problem. Seek medical attention if discomfort occurs. Do not induce vomiting.

---

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

COMBUSTION PRODUCTS: Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

Flash Point C(F): > 93(200) (ASTM D-93).

Flammable Limits (approx.% vol.in air) - LEL: 0.9%, UEL: 7.0%

NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0

---

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills/releases as required to appropriate authorities. U.S. Coast Guard and EPA regulations require immediate reporting of spills/releases that could reach any waterway including intermittent dry creeks. Report spill/release to Coast Guard National Response Center toll free number (800)424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED:

LAND SPILL: Shut off source taking normal safety precautions. Take measures to minimize the effects on ground water. Recover by pumping or contain spilled material with sand or other suitable absorbent and remove mechanically into containers. If necessary, dispose of adsorbed residues as directed in Section 13.

WATER SPILL: Confine the spill immediately with booms. Warn other ships in the vicinity. Notify port and other relevant authorities. Remove from the surface by skimming or with suitable absorbents. If

permitted by regulatory authorities the use of suitable dispersants should be considered where recommended in local oil spill procedures.

ENVIRONMENTAL PRECAUTIONS: Prevent material from entering sewers, water sources or low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation.

PERSONAL PRECAUTIONS: See Section 8

---

7. HANDLING AND STORAGE

HANDLING: No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.

STORAGE: Keep containers closed when not in use. Do not store in open or unlabelled containers. Store away from strong oxidizing agents and combustible materials. Do not store near heat, sparks, flame or strong oxidants.

SPECIAL PRECAUTIONS: Prevent small spills and leakages to avoid slip hazard.

EMPTY CONTAINER WARNING: Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

---

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

When mists/aerosols can occur, the following are recommended: 5 mg/m3 (as oil mist)- ACGIH Threshold Limit Value (TLV), 10 mg/m3 (as oil mist) - ACGIH Short Term Exposure Limit (STEL), 5 mg/m3 (as oil mist) - OSHA Permissible Exposure Limit (PEL)

VENTILATION: If mists are generated, use adequate ventilation, local exhaust or enclosures to control below exposure limits.

RESPIRATORY PROTECTION: If mists are generated, and/or when ventilation is not adequate, wear approved respirator.

EYE PROTECTION: If eye contact is likely, safety glasses with side shields or chemical type goggles should be worn.

SKIN PROTECTION: Not normally required. When splashing or liquid contact can occur frequently, wear oil resistant gloves and/or other protective clothing. Good personal hygiene practices should always be followed.

---

9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet

for specific details.

APPEARANCE: Liquid
COLOR: Orange
ODOR: Mild
ODOR THRESHOLD-ppm: NE
pH: NA
BOILING POINT C(F): > 316(600)
MELTING POINT C(F): NA
FLASH POINT C(F): > 93(200) (ASTM D-93)
FLAMMABILITY (solids): NE
AUTO FLAMMABILITY C(F): NA
EXPLOSIVE PROPERTIES: NA
OXIDIZING PROPERTIES: NA
VAPOR PRESSURE-mmHg 20 C: < 0.1
VAPOR DENSITY: > 2.0
EVAPORATION RATE: NE
RELATIVE DENSITY, 15/4 C: 0.86-1
SOLUBILITY IN WATER: Negligible
PARTITION COEFFICIENT: > 3.5
VISCOSITY AT 40 C, cSt: > 20.0
VISCOSITY AT 100 C, cSt: NE
POUR POINT C(F): < -30(-22)
FREEZING POINT C(F): NE
VOLATILE ORGANIC COMPOUND: NE
DMSO EXTRACT, IP-346 (WT.%): <3, for mineral oil only
NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

---

10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable.
CONDITIONS TO AVOID: Extreme heat and high energy sources of ignition.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Product does not decompose at ambient temperatures.
HAZARDOUS POLYMERIZATION: Will not occur.

---

11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---

ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
INHALATION TOXICITY (RATS): Practically non-toxic (LC50: greater than 5 mg/l). ---Based on testing of similar products and/or the components.
EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). ---Based on testing of similar products and/or the components.
SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary

Irritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components.

OTHER ACUTE TOXICITY DATA: Although an acute inhalation study was not performed with this product, a variety of mineral and synthetic oils, such as those in this product, have been tested. These samples had virtually no effect other than a nonspecific inflammatory response in the lung to the aerosolized mineral oil. The presence of additives in other tested formulations (in approximately the same amounts as in the present formulation) did not alter the observed effects.

---SUBCHRONIC TOXICOLOGY (SUMMARY)---

No significant adverse effects were found in studies using repeated dermal applications of similar formulations to the skin of laboratory animals for 13 weeks at doses significantly higher than those expected during normal industrial exposure. The animals were evaluated extensively for effects of exposure (hematology, serum chemistry, urinalysis, organ weights, microscopic examination of tissues etc.).

---REPRODUCTIVE TOXICOLOGY (SUMMARY)---

No teratogenic effects would be expected from dermal exposure, based on laboratory developmental toxicity studies of major components in this formulation and/or materials of similar composition.

---CHRONIC TOXICOLOGY (SUMMARY)---

Repeated and/or prolonged exposure may cause irritation to the skin, eyes or respiratory tract. Overexposure to oil mist may result in oil droplet deposition and/or granuloma formation. For mineral base oils: Base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects. These results are confirmed on a continuing basis using various screening methods such as Modified Ames Test, IP-346, and/or other analytical methods. For synthetic base oils: The base oils in this product have been tested in the Ames assay and other tests of mutagenicity with negative results. These base oils are not expected to be carcinogenic with chronic dermal exposures.

---SENSITIZATION (SUMMARY)---

Not expected to be sensitizing based on tests of this product, components, or similar products.

---

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS:

In the absence of specific environmental data for this product, this assessment is based on information for representative products.

ECOTOXICITY: Available ectoxicity data (LL50 >1000 mg/L) indicates that adverse effects to aquatic organisms are not expected from this product.

MOBILITY: When released into the environment, adsorption to sediment and soil will be the predominant behavior.

PERSISTENCE AND DEGRADABILITY: This product is expected to be inherently biodegradable.

BIOACCUMULATIVE POTENTIAL: Bioaccumulation is unlikely due to the very low water solubility of this product, therefore bioavailability to aquatic organisms is minimal.

---

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity. The unused product is not formulated with substances covered by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

---

14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT.

RID/ADR: NOT REGULATED BY RID/ADR.

IMO: NOT REGULATED BY IMO.

IATA: NOT REGULATED BY IATA.

STATIC ACCUMULATOR (50 picosiemens or less): YES

---

15. REGULATORY INFORMATION

US OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this product is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

EU Labeling: Product is not dangerous as defined by the European Union Dangerous Substances/Preparations Directives. EU labeling not required.

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, and DSL.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:
This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

This product contains no chemicals subject to the supplier notification requirements of SARA (313) toxic release program.

THIS PRODUCT HAS BEEN AUTHORIZED BY USDA FOR USE UNDER THE FOLLOWING CATEGORY: This product is acceptable as a lubricant where there is no possibility of food contact (complies with earlier USDA guidelines for H-2 lubricant use).

The following product ingredients are cited on the lists below:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS *
NAPHTHALENE (COMPONENT ANALYSIS) (<0.02%)	91-20-3	16, 22

--- REGULATORY LISTS SEARCHED ---

1=ACGIH ALL	6=IARC 1	11=TSCA 4	16=CA P65 CARC	21=LA RTK
2=ACGIH A1	7=IARC 2A	12=TSCA 5a2	17=CA P65 REPRO	22=MI 293
3=ACGIH A2	8=IARC 2B	13=TSCA 5e	18=CA RTK	23=MN RTK
4=NTP CARC	9=OSHA CARC	14=TSCA 6	19=FL RTK	24=NJ RTK
5=NTP SUS	10=OSHA Z	15=TSCA 12b	20=IL RTK	25=PA RTK
				26=RI RTK

* EPA recently added new chemical substances to its TSCA Section 4 test rules. Please contact the supplier to confirm whether the ingredients in this product currently appear on a TSCA 4 or TSCA 12b list.
Code key:CARC=Carcinogen; SUS=Suspected Carcinogen; REPRO=Reproductive

16. OTHER INFORMATION

USE: LUBRICANT

NOTE: PRODUCTS OF EXXON MOBIL CORPORATION AND ITS AFFILIATED COMPANIES ARE NOT FORMULATED TO CONTAIN PCBS.

Health studies have shown that many hydrocarbons pose potential human health risks which may vary from person to person. Information provided on this MSDS reflects intended use. This product should not be used for other applications. In any case, the following advice should be considered:

INJECTION INJURY WARNING: If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

INDUSTRIAL LABEL

Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation. Always observe good hygiene measures. First Aid: Wash skin with soap and water. Flush eyes with water. If overcome by fumes or vapor, remove to fresh air. If ingested do not induce vomiting. If symptoms persist seek medical assistance. Read and understand the MSDS before using this product.

****
For Internal Use Only: MHC: 1* 1* 1* 1* 1*, MPPEC: A, TRN: 602987-00, ELIS: 400548, CMCS97: 970854, REQ: US - MARKETING, SAFE USE: L
EHS Approval Date: 04APR2002
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Prepared by: ExxonMobil Oil Corporation
Environmental Health and Safety Department, Clinton, USA

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: MOBILGEAR 630
Product Description: Base Oil and Additives
Product Code: 201560401010, 610873-00, 970984
Intended Use: Gear oil

COMPANY IDENTIFICATION

Supplier: **EXXON MOBIL CORPORATION**
3225 GALLOWS RD.
FAIRFAX, VA. 22037 USA

24 Hour Health Emergency	609-737-4411
Transportation Emergency Phone	800-424-9300
ExxonMobil Transportation No.	281-834-3296
MSDS Requests	713-613-3661
Product Technical Information	800-662-4525, 800-947-9147
MSDS Internet Address	http://www.exxon.com, http://www.mobil.com

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

No Reportable Hazardous Substance(s) or Complex Substance(s).

SECTION 3 HAZARDS IDENTIFICATION

This material is not considered to be hazardous according to regulatory guidelines (see (M)SDS Section 15).

POTENTIAL HEALTH EFFECTS

Low order of toxicity. Excessive exposure may result in eye, skin, or respiratory irritation. High-pressure injection under skin may cause serious damage.

NFPA Hazard ID:	Health: 0	Flammability: 1	Reactivity: 0
HMIS Hazard ID:	Health: 0	Flammability: 1	Reactivity: 0

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 4 FIRST AID MEASURES

INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use

mouth-to-mouth resuscitation.

SKIN CONTACT

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

INGESTION

First aid is normally not required. Seek medical attention if discomfort occurs.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water

FIRE FIGHTING

Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Hazardous Combustion Products: Smoke, Fume, Aldehydes, Sulfur oxides, Incomplete combustion products, Oxides of carbon

FLAMMABILITY PROPERTIES

Flash Point [Method]: >200C (392F) [ASTM D-92]
Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0
Autoignition Temperature: N/D

SECTION 6 ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. U.S. regulations require reporting releases of this material to the environment which exceed the reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

SPILL MANAGEMENT

Land Spill: Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

Water Spill: Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

ENVIRONMENTAL PRECAUTIONS

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7 HANDLING AND STORAGE

HANDLING

Prevent small spills and leakage to avoid slip hazard.

Static Accumulator: *This material is a static accumulator.*

STORAGE

Do not store in open or unlabelled containers.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits/standards for materials that can be formed when handling this product: When mists / aerosols can occur, the following are recommended: 5 mg/m³ - ACGIH TLV, 10 mg/m³ - ACGIH STEL, 5 mg/m³ - OSHA PEL.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of

respirators to be considered for this material include:
No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Work conditions can greatly effect glove durability; inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:
No protection is ordinarily required under normal conditions of use.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:
No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS
See Sections 6, 7, 12, 13.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

GENERAL INFORMATION
Physical State: Liquid
Color: Amber
Odor: Characteristic
Odor Threshold: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION
Relative Density (at 15 C): 0.894
Flash Point [Method]: >200C (392F) [ASTM D-92]
Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0
Autoignition Temperature: N/D
Boiling Point / Range: > 316C (600F)
Vapor Density (Air = 1): > 2 at 101 kPa
Vapor Pressure: < 0.013 kPa (0.1 mm Hg) at 20 C
Evaporation Rate (n-butyl acetate = 1): N/D
pH: N/A
Log Pow (n-Octanol/Water Partition Coefficient): > 3.5
Solubility in Water: Negligible
Viscosity: 220 cSt (220 mm2/sec) at 40 C | 19 cSt (19 mm2/sec) at 100C

Oxidizing Properties: See Sections 3, 15, 16.

OTHER INFORMATION

Freezing Point: N/D
Melting Point: N/A
Pour Point: -9°C (16°F)
DMSO Extract (mineral oil only), IP-346: < 3 %wt

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Excessive heat. High energy sources of ignition.

MATERIALS TO AVOID: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Route of Exposure	Conclusion / Remarks
Inhalation	
Toxicity (Rat): LC50 > 5000 mg/m3	Minimally Toxic. Based on test data for structurally similar materials.
Irritation: Data available.	Negligible hazard at ambient/normal handling temperatures. Based on assessment of the components.
Ingestion	
Toxicity (Rat): LD50 > 2000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Skin	
Toxicity (Rabbit): LD50 > 2000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Irritation (Rabbit): Data available.	Negligible irritation to skin at ambient temperatures. Based on test data for structurally similar materials.
Eye	
Irritation (Rabbit): Data available.	May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.

CHRONIC/OTHER EFFECTS

For the product itself:
Repeated and/or prolonged exposure may cause irritation to the skin, eyes, or respiratory tract.
Contains:
Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals.

Additional information is available by request.

The following ingredients are cited on the lists below: None.

--REGULATORY LISTS SEARCHED--

1 = NTP CARC	3 = IARC 1	5 = IARC 2B
2 = NTP SUS	4 = IARC 2A	6 = OSHA CARC

SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

ECOTOXICITY

Material -- Not expected to be harmful to aquatic organisms.

MOBILITY

Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

PERSISTENCE AND DEGRADABILITY

Biodegradation:

Base oil component -- Expected to be inherently biodegradable

BIOACCUMULATION POTENTIAL

Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

DISPOSAL RECOMMENDATIONS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

REGULATORY DISPOSAL INFORMATION

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrositivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

Empty Container Warning PRECAUTIONARY LABEL TEXT: Empty containers may retain residue and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY

MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

SECTION 14 TRANSPORT INFORMATION

LAND (DOT) : Not Regulated for Land Transport

LAND (TDG) : Not Regulated for Land Transport

SEA (IMDG) : Not Regulated for Sea Transport according to IMDG-Code

AIR (IATA) : Not Regulated for Air Transport

SECTION 15 REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

NATIONAL CHEMICAL INVENTORY LISTING: AICS, IECSC, EINECS, ENCS, KECI, PICCS, TSCA
Special Cases:

Inventory	Status
NDSL	Restrictions Apply

EPCRA: This material contains no extremely hazardous substances.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

SARA (313) TOXIC RELEASE INVENTORY: This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

The Following Ingredients are Cited on the Lists Below: None.

--REGULATORY LISTS SEARCHED--

1 = ACGIH ALL	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN RTK
2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK
4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

Code key: CARC=Carcinogen; REPRO=Reproductive

SECTION 16 OTHER INFORMATION

N/D = Not determined, N/A = Not applicable

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:
No revision information is available.

The information and recommendations contained herein are, to the best of ExxonMobil's knowledge and belief, accurate and reliable as of the date issued. You can contact ExxonMobil to insure that this document is the most current available from ExxonMobil. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted. The term, "ExxonMobil" is used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliates in which they directly or indirectly hold any interest.

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MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: MOBIL SHC 636
Product Description: Synthetic Base Stocks and Additives
Product Code: 201560500580, 602995-00, 970921
Intended Use: Lubricant

COMPANY IDENTIFICATION

Supplier: **EXXON MOBIL CORPORATION**
3225 GALLOWS RD.
FAIRFAX, VA. 22037 USA

24 Hour Health Emergency	609-737-4411
Transportation Emergency Phone	800-424-9300
ExxonMobil Transportation No.	281-834-3296
MSDS Requests	713-613-3661
Product Technical Information	800-662-4525, 800-947-9147
MSDS Internet Address	http://www.exxon.com, http://www.mobil.com

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

No Reportable Hazardous Substance(s) or Complex Substance(s).

SECTION 3 HAZARDS IDENTIFICATION

This material is not considered to be hazardous according to regulatory guidelines (see (M)SDS Section 15).

POTENTIAL HEALTH EFFECTS

Low order of toxicity. Excessive exposure may result in eye, skin, or respiratory irritation. High-pressure injection under skin may cause serious damage.

NFPA Hazard ID:	Health:	0	Flammability:	1	Reactivity: 0
HMIS Hazard ID:	Health:	0	Flammability:	1	Reactivity: 0

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 4 FIRST AID MEASURES

INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use

mouth-to-mouth resuscitation.

SKIN CONTACT

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

INGESTION

First aid is normally not required. Seek medical attention if discomfort occurs.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water

FIRE FIGHTING

Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Hazardous Combustion Products: Aldehydes, Smoke, Fume, Oxides of carbon, Sulfur oxides, Incomplete combustion products

FLAMMABILITY PROPERTIES

Flash Point [Method]: >210C (410F) [ASTM D-92]
Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0
Autoignition Temperature: N/D

SECTION 6 ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. U.S. regulations require reporting releases of this material to the environment which exceed the reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

SPILL MANAGEMENT

Land Spill: Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

Water Spill: Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

ENVIRONMENTAL PRECAUTIONS

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7 HANDLING AND STORAGE

HANDLING

Prevent small spills and leakage to avoid slip hazard.

Static Accumulator: *This material is a static accumulator.*

STORAGE

Do not store in open or unlabelled containers.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits/standards for materials that can be formed when handling this product: When mists / aerosols can occur, the following are recommended: 5 mg/m³ - ACGIH TLV, 10 mg/m³ - ACGIH STEL, 5 mg/m³ - OSHA PEL.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of

respirators to be considered for this material include:
No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Work conditions can greatly effect glove durability; inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:
No protection is ordinarily required under normal conditions of use.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:
No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS
See Sections 6, 7, 12, 13.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

GENERAL INFORMATION
Physical State: Liquid
Color: Orange
Odor: Characteristic
Odor Threshold: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION
Relative Density: 0.867
Flash Point [Method]: >210C (410F) [ASTM D-92]
Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0
Autoignition Temperature: N/D
Boiling Point / Range: > 316C (600F)
Vapor Density (Air = 1): > 2 at 101 kPa
Vapor Pressure: < 0.013 kPa (0.1 mm Hg) at 20 C
Evaporation Rate (n-butyl acetate = 1): N/D
pH: N/A
Log Pow (n-Octanol/Water Partition Coefficient): > 3.5
Solubility in Water: Negligible
Viscosity: 680 cSt (680 mm2/sec) at 40 C

Oxidizing Properties: See Sections 3, 15, 16.

OTHER INFORMATION

Freezing Point: N/D
Melting Point: N/A
Pour Point: -30°C (-22°F)

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Excessive heat. High energy sources of ignition.

MATERIALS TO AVOID: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Route of Exposure	Conclusion / Remarks
Inhalation	
Toxicity (Rat): LC50 > 5000 mg/m3	Minimally Toxic. Based on test data for structurally similar materials.
Irritation: No end point data.	Negligible hazard at ambient/normal handling temperatures. Based on assessment of the components.
Ingestion	
Toxicity (Rat): LD50 > 2000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Skin	
Toxicity (Rabbit): LD50 > 2000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Irritation (Rabbit): Data available.	Negligible irritation to skin at ambient temperatures. Based on test data for structurally similar materials.
Eye	
Irritation (Rabbit): Data available.	May cause mild, short-lasting discomfort to eyes. Based on test data for structurally similar materials.

CHRONIC/OTHER EFFECTS

Contains:

Synthetic base oils: Not expected to cause significant health effects under conditions of normal use, based on laboratory studies with the same or similar materials. Not mutagenic or genotoxic. Not sensitizing in test animals and humans.

Additional information is available by request.

The following ingredients are cited on the lists below: None.

--REGULATORY LISTS SEARCHED--

1 = NTP CARC	3 = IARC 1	5 = IARC 2B
2 = NTP SUS	4 = IARC 2A	6 = OSHA CARC

SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

ECOTOXICITY

Material -- Not expected to be harmful to aquatic organisms.

MOBILITY

Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

DISPOSAL RECOMMENDATIONS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

REGULATORY DISPOSAL INFORMATION

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

Empty Container Warning PRECAUTIONARY LABEL TEXT: Empty containers may retain residue and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

SECTION 14 TRANSPORT INFORMATION

LAND (DOT) : Not Regulated for Land Transport

LAND (TDG) : Not Regulated for Land Transport

SEA (IMDG) : Not Regulated for Sea Transport according to IMDG-Code

AIR (IATA) : Not Regulated for Air Transport

SECTION 15 REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

NATIONAL CHEMICAL INVENTORY LISTING: IECSC, DSL, EINECS, ENCS, KECI, TSCA

EPCRA: This material contains no extremely hazardous substances.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

SARA (313) TOXIC RELEASE INVENTORY: This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

The Following Ingredients are Cited on the Lists Below:*

Chemical Name	CAS Number	List Citations
PHENOL, 4,4-METHYLENEBIS(2,6-BIS(1,1-DIMETHYLETHYL)-	118-82-1	5, 9

--REGULATORY LISTS SEARCHED--

1 = ACGIH ALL	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN RTK
2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK
4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

Code key: CARC=Carcinogen; REPRO=Reproductive

* EPA recently added new chemical substances to its TSCA Section 4 test rules. Please contact the supplier to confirm whether the ingredients in this product currently appear on a TSCA 4 or TSCA 12b list.

SECTION 16 OTHER INFORMATION

N/D = Not determined, N/A = Not applicable

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:
No revision information is available.

This warning is given to comply with California Health and Safety Code 25249.6 and does not constitute an admission

or a waiver of rights. This product contains a chemical known to the State of California to cause cancer.

The information and recommendations contained herein are, to the best of ExxonMobil's knowledge and belief, accurate and reliable as of the date issued. You can contact ExxonMobil to insure that this document is the most current available from ExxonMobil. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted. The term, "ExxonMobil" is used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliates in which they directly or indirectly hold any interest.

Internal Use Only
MHC: 0, 0, 0, 0, 0, 0 PPEC: A

DGN: 2007979XUS (547918)

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Royal Purple, Ltd.

Material Safety Data Sheet

(b) (4)

[redacted]

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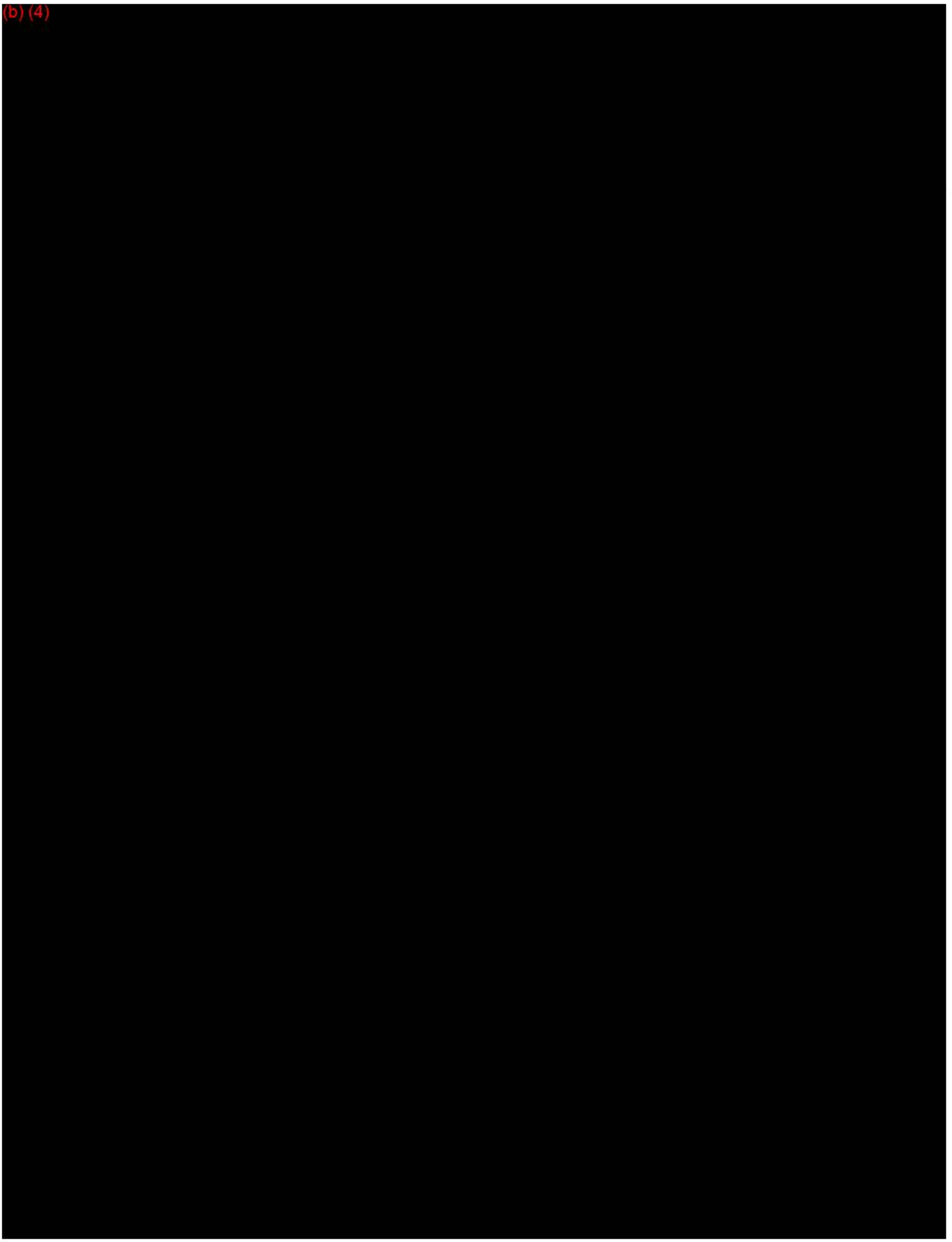

MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Product Name: MOBIL DTE 26
Product Description: Base Oil and Additives
Product Code: 201560102030, 602649-00, 970101
Intended Use: Hydraulic fluid

COMPANY IDENTIFICATION

Supplier: **EXXON MOBIL CORPORATION**
3225 GALLOWS RD.
FAIRFAX, VA. 22037 USA

24 Hour Health Emergency	609-737-4411
Transportation Emergency Phone	800-424-9300
ExxonMobil Transportation No.	281-834-3296
MSDS Requests	713-613-3661
Product Technical Information	800-662-4525, 800-947-9147
MSDS Internet Address	http://www.exxon.com, http://www.mobil.com

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

No Reportable Hazardous Substance(s) or Complex Substance(s).

SECTION 3 HAZARDS IDENTIFICATION

This material is not considered to be hazardous according to regulatory guidelines (see (M)SDS Section 15).

POTENTIAL HEALTH EFFECTS

Low order of toxicity. Excessive exposure may result in eye, skin, or respiratory irritation. High-pressure injection under skin may cause serious damage.

NFPA Hazard ID:	Health:	0	Flammability:	1	Reactivity: 0
HMIS Hazard ID:	Health:	0	Flammability:	1	Reactivity: 0

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

SECTION 4 FIRST AID MEASURES

INHALATION

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use

mouth-to-mouth resuscitation.

SKIN CONTACT

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

EYE CONTACT

Flush thoroughly with water. If irritation occurs, get medical assistance.

INGESTION

First aid is normally not required. Seek medical attention if discomfort occurs.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Appropriate Extinguishing Media: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

Inappropriate Extinguishing Media: Straight Streams of Water

FIRE FIGHTING

Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

Unusual Fire Hazards: Pressurized mists may form a flammable mixture.

Hazardous Combustion Products: Aldehydes, Smoke, Fume, Sulfur oxides, Incomplete combustion products, Oxides of carbon

FLAMMABILITY PROPERTIES

Flash Point [Method]: >204C (399F) [ASTM D-92]
Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0
Autoignition Temperature: N/D

SECTION 6 ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. U.S. regulations require reporting releases of this material to the environment which exceed the reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

SPILL MANAGEMENT

Land Spill: Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

Water Spill: Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

ENVIRONMENTAL PRECAUTIONS

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

SECTION 7 HANDLING AND STORAGE

HANDLING

Prevent small spills and leakage to avoid slip hazard.

Static Accumulator: This material is a static accumulator.

STORAGE

Do not store in open or unlabelled containers.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits/standards for materials that can be formed when handling this product: When mists / aerosols can occur, the following are recommended: 5 mg/m³ - ACGIH TLV, 10 mg/m³ - ACGIH STEL, 5 mg/m³ - OSHA PEL.

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.

ENGINEERING CONTROLS

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a

level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Work conditions can greatly effect glove durability; inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

No protection is ordinarily required under normal conditions of use.

Eye Protection: If contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS

See Sections 6, 7, 12, 13.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

GENERAL INFORMATION

Physical State: Liquid
Color: Brown
Odor: Characteristic
Odor Threshold: N/D

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Relative Density (at 15 C): 0.881
Flash Point [Method]: >204C (399F) [ASTM D-92]
Flammable Limits (Approximate volume % in air): LEL: 0.9 UEL: 7.0
Autoignition Temperature: N/D
Boiling Point / Range: > 316C (600F)
Vapor Density (Air = 1): > 2 at 101 kPa
Vapor Pressure: < 0.013 kPa (0.1 mm Hg) at 20 C
Evaporation Rate (n-butyl acetate = 1): N/D
pH: N/A
Log Pow (n-Octanol/Water Partition Coefficient): > 3.5

Solubility in Water: Negligible
Viscosity: 71.2 cSt (71.2 mm2/sec) at 40 C | 8.5 cSt (8.5 mm2/sec) at 100C
Oxidizing Properties: See Sections 3, 15, 16.

OTHER INFORMATION

Freezing Point: N/D
Melting Point: N/A
Pour Point: -18°C (0°F)
DMSO Extract (mineral oil only), IP-346: < 3 %wt

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Material is stable under normal conditions.

CONDITIONS TO AVOID: Excessive heat. High energy sources of ignition.

MATERIALS TO AVOID: Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: Material does not decompose at ambient temperatures.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Route of Exposure	Conclusion / Remarks
Inhalation	
Toxicity (Rat): LC50 > 5000 mg/m3	Minimally Toxic. Based on assessment of the components.
Irritation: No end point data.	Negligible hazard at ambient/normal handling temperatures. Based on assessment of the components.
Ingestion	
Toxicity (Rat): LD50 > 2000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Skin	
Toxicity (Rabbit): LD50 > 2000 mg/kg	Minimally Toxic. Based on test data for structurally similar materials.
Irritation (Rabbit): Data available.	Negligible irritation to skin at ambient temperatures. Based on assessment of the components.
Eye	
Irritation (Rabbit): Data available.	May cause mild, short-lasting discomfort to eyes. Based on assessment of the components.

CHRONIC/OTHER EFFECTS

Contains:

Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP-346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation. Not sensitizing in test animals.

Additional information is available by request.

The following ingredients are cited on the lists below: None.

--REGULATORY LISTS SEARCHED--

1 = NTP CARC	3 = IARC 1	5 = IARC 2B
2 = NTP SUS	4 = IARC 2A	6 = OSHA CARC

SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

ECOTOXICITY

Material -- Not expected to be harmful to aquatic organisms.

MOBILITY

Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

PERSISTENCE AND DEGRADABILITY

Biodegradation:

Base oil component -- Expected to be inherently biodegradable

BIOACCUMULATION POTENTIAL

Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

DISPOSAL RECOMMENDATIONS

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

REGULATORY DISPOSAL INFORMATION

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

Empty Container Warning PRECAUTIONARY LABEL TEXT: Empty containers may retain residue and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult

to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

SECTION 14 TRANSPORT INFORMATION

LAND (DOT) : Not Regulated for Land Transport

LAND (TDG) : Not Regulated for Land Transport

SEA (IMDG) : Not Regulated for Sea Transport according to IMDG-Code

AIR (IATA) : Not Regulated for Air Transport

SECTION 15 REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

NATIONAL CHEMICAL INVENTORY LISTING: AICS, DSL, EINECS, ENCS, KECI, TSCA

EPCRA: This material contains no extremely hazardous substances.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

SARA (313) TOXIC RELEASE INVENTORY: This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

The Following Ingredients are Cited on the Lists Below:*

Chemical Name	CAS Number	List Citations
ZINC ALKYL DITHIOPHOSPHATE	68649-42-3	15

--REGULATORY LISTS SEARCHED--

1 = ACGIH ALL	6 = TSCA 5a2	11 = CA P65 REPRO	16 = MN RTK
2 = ACGIH A1	7 = TSCA 5e	12 = CA RTK	17 = NJ RTK
3 = ACGIH A2	8 = TSCA 6	13 = IL RTK	18 = PA RTK
4 = OSHA Z	9 = TSCA 12b	14 = LA RTK	19 = RI RTK
5 = TSCA 4	10 = CA P65 CARC	15 = MI 293	

Code key: CARC=Carcinogen; REPRO=Reproductive

* EPA recently added new chemical substances to its TSCA Section 4 test rules. Please contact the supplier to confirm whether the ingredients in this product currently appear on a TSCA 4 or TSCA 12b list.

SECTION 16 OTHER INFORMATION

N/D = Not determined, N/A = Not applicable

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:
No revision information is available.

The information and recommendations contained herein are, to the best of ExxonMobil's knowledge and belief, accurate and reliable as of the date issued. You can contact ExxonMobil to insure that this document is the most current available from ExxonMobil. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users. Alteration of this document is strictly prohibited. Except to the extent required by law, re-publication or retransmission of this document, in whole or in part, is not permitted. The term, "ExxonMobil" is used for convenience, and may include any one or more of ExxonMobil Chemical Company, Exxon Mobil Corporation, or any affiliates in which they directly or indirectly hold any interest.

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DGN: 2007812XUS (546747)

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William Brothers 2194
Prof # 2194

EPAHO103001811

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/11/2007**

Dear **Zac or Dave**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2194

Generator: Williams Brothers
Address: 1650 Holmes
Houston, TX 77045

Waste Information

Name of Waste: Recyclable diesl fuel
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Unused recyclable diesel fuel solution
Color: red **Odor:** mild **pH:** na
Physical State:
Incompatibilities: Oxidizers
Safety Related Data/Special Handling:
Level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DB

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Williams Brother
Address: Kirby; Holmes 1650 Holmes
City, State, Zip: Houston, TX 77045
Contact: Mark Anderson Title: HSR
Phone No: 832-309-4829 Fax No:
24/hr Phone: 281-541-4829
U.S. EPA I.D. No: N/A
State I.D. N/A SIC Code: NA

SECTION 2: Billing Information – ☐ Same as Above

Company: CMA Services
Address: 10707 Honea Egypt Rd
City, State, Zip: Montgomery, TX 77316
Contact: Traci Fisher Title: office mgr.
Phone No: 936-483-3662 Fax No: 936-483-3674

SECTION 3: General Description of the Waste

Name of Waste: Recyclable Diesel Fuel
Detailed Description of Process Generating Waste: Unused Recyclable Diesel Fuel Solution

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Red Odor: Mild

Specific Gravity (water=1): .8762 Density: 7.1 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 2 Other:
Texas State Waste Code No:
Proper U.S. DOT Shipping Name: Recyclable Diesel Fuel
Class: ~~NA~~ 3 UN/NA: 1193 PG: III RQ: NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
711 F	NA	0 mg/l	0 mg/l	0 %
Oil&Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
0 mg/l	0 mg/l	0 mg/l	0 mg/l	0 mg/l

EPAHO103001813

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Diesel fuel	0-100%	%
Sulfur	<0.5	%
water	0-20%	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

— Level D PPE.

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

N/A Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ✓
TCLP Volatiles: ✓
TCLP Semi-Volatiles: ✓
Reactivity: ✓
Corrosivity: ✓
Ignitability: ✓

SECTION 9: Generator's Certification

The information contained herein is based on [X] generator knowledge and/or [ ] analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 4/25/07

Printed Name/Title: Zaff Vaughn

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert R Thayer

Date: 5-11-07 Approved Rejected

Approval Number: 2194

Additional Information: $40/dm w/ water

Free if good Diesel - ØH

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☑ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☒ Used oils
- ☒ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001815

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☒ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001816

November 30, 1998

USA and WORLDWIDE

Material Safety Data Sheet

NO. 2 HIGH SULFUR DISTILLATE

PHILLIPS 66 COMPANY
A Division of Phillips Petroleum Company
Bartlesville, Oklahoma 74004

PHONE NUMBERS
Emergency: (918) 661-8118
General MSDS Information: (918) 661-3709
For Additional MSDSs: (918) 661-3709

A. Product Identification

Synonyms: High Sulfur Diesel Fuel; #2 Distillate
Chemical Name: Mixture
Chemical Family: Hydrocarbons
Chemical Formula: Mixture
CAS Reg. No.: 68476-34-6
Product No.: 1014081(34360); 1014100(35360)

Product and/or Components Entered on EPA's TSCA Inventory: YES

This product is in U.S. commerce, and is listed in the Toxic Substances Control Act (TSCA) Inventory of Chemicals; hence, it may be subject to applicable TSCA provisions and restrictions.

B. Components

Ingredients	CAS Number	% By Wt.	OSHA PEL	ACGIH TLV
Diesel fuel	68476-34-6	100	NE	NE
may include Benzene	71-43-2	< 50 ppm	10 ppm*	0.5 ppm
Sulfur	7704-34-9	< 0.5	NE	NE

* Areas covered by the Benzene Standard, 29 CFR 1910.1028, will have a 1 ppm 8 hour TWA and 5 ppm STEL.

NA - Not Applicable NE - Not Established

EPAHO103001817

C. Personal Protection Information

Ventilation: Use adequate ventilation.

Respiratory Protection: Not generally required unless needed to prevent respiratory irritation. In case of spill or leak resulting in unknown concentration, use NIOSH approved supplied air respirator.

Eye Protection: For splash protection, use chemical goggles and face shield.

Skin Protection: Use gloves resistant to the material being used. (i.e., neoprene or Nitrile rubber). Use protective garments to prevent excessive skin contact.

NOTE: Personal protection information shown in Section C is based upon general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

D. Handling and Storage Precautions

Do not get in eyes, on skin or on clothing. Avoid breathing vapors, mist, fume or dust. Do not swallow, may be aspirated into lungs. Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Wash thoroughly after handling. Launder contaminated clothing before reuse. Use with adequate ventilation.

Keep away from heat, sparks, and flames. Store in closed container. Store in well-ventilated area. Bond and ground during transfer.

E. Reactivity Data

Stability: Stable
Conditions to Avoid: Not Established
Incompatibility (Materials to Avoid): Oxygen and strong oxidizing agents

Hazardous Polymerization: Will not occur
Conditions to Avoid: Not Established
Hazardous Decomposition Products: Carbon and sulfur oxides and various hydrocarbons formed when burned.

F. Health Hazard Data

Recommended Exposure Limits:

See Section B.

EPAHO103001818

Acute Effects of Overexposure:

Eye: May cause mild irritation, with stinging and redness of the eyes.

Skin: May cause severe irritation. Repeated or prolonged contact may cause defatting of the skin, resulting in dermatitis. Dermal LD50 for diesel fuel is > 5 ml/kg (rabbit).

Inhalation: May cause irritation to nose, throat or lungs. Headache, nausea, dizziness, unconsciousness may occur.

Ingestion: May cause irritation to intestines. May cause headache, nausea, unconsciousness. If swallowed, may be aspirated resulting in inflammation and possible fluid accumulation in the lungs. Oral LD50 for diesel fuel is 9 ml/kg (rat).

Subchronic and Chronic Effects of Overexposure:

No known applicable information.

Other Health Effects:

Combustion (burning) of most carbon-containing material forms carbon monoxide. Carbon monoxide inhalation may cause carboxyhemoglobinemia. Chronic exposure to carbon monoxide causes fatigue, poor memory, loss of sensation in fingers, visual disturbances and insomnia. Carboxyhemoglobinemia is frequently misdiagnosed as flu.

Sensitive sub-populations to the inhalation of carbon monoxide exist. Carbon monoxide displaces oxygen in the bloodstream and therefore, can adversely effect people with pre-existing heart disease, pregnant women and smokers.

Combustion, a normal use of diesel fuel, results in an exhaust that has been associated with lung cancer in animals. There is limited evidence to suggest an association between occupational exposure to diesel exhaust and lung cancer in humans.

Health Hazard Categories:

	Animal	Human		Animal	Human
Known Carcinogen	___	___	Toxic	___	___
Suspect Carcinogen	___	___	Corrosive	___	___
Mutagen	___	___	Irritant	_X_	_X_
Teratogen	___	___	Target Organ Toxin	_X_	_X_
Allergic Sensitizer	___	___	Specify - Lung - Aspiration Hazard		
Highly Toxic	___	___			

EPAHO103001819

First Aid and Emergency Procedures:

Eye: Flush eyes with running water for at least fifteen minutes. If irritation or adverse symptoms develop, seek medical attention.

Skin: Immediately wash skin with soap and water for at least fifteen minutes. If irritation or adverse symptoms develop, seek medical attention.

Inhalation: Remove from exposure. If breathing is difficult, give oxygen. If breathing ceases, administer artificial respiration followed by oxygen. Seek immediate medical attention.

Ingestion: Do not induce vomiting. Seek immediate medical attention.

Note to Physician: Gastric lavage using a cuffed endotracheal tube may be performed at your discretion.

G. Physical Data

Appearance:	Red liquid
Odor:	Mild
Boiling Point:	300-690F (149-366C)
Vapor Pressure:	Not Established
Vapor Density (Air = 1):	>1
Solubility in Water:	Negligible
Specific Gravity (H2O = 1):	0.8762 @ 60/60F (16/16C)
Percent Volatile by Volume:	100
Evaporation Rate (Butyl Acetate=1):	<1
Viscosity:	32.6 - 37.9 SUS @ 100 F (38C)

H. Fire and Explosion Data

Flash Point (Method Used):	> 115F (> 46C) (PMCC, ATSM D-93)
Flammable Limits (% by Volume in Air):	LEL - Not Established UEL - Not Established
Fire Extinguishing Media:	Dry chemical, foam or carbon dioxide (CO2)
Special Fire Fighting Procedures:	Evacuate area of all unnecessary personnel. Shut off source, if possible. Use NIOSH approved self-contained breathing apparatus and other protective equipment and/or garments described in Section C if conditions warrant. Water fog or spray may be used to cool exposed containers and equipment. Do not spray water directly on fire product will float and could be reignited on surface of water.
Fire and Explosion Hazards:	Carbon and sulfur oxides and various hydrocarbons formed when burned.

EPAHO103001820

I. Spill, Leak and Disposal Procedures

Precautions Required if Material is Released or Spilled:
Evacuate area of all unnecessary personnel. Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Shut off source, if possible and contain spill. Protect from ignition. Keep out of water sources and sewers. Absorb in dry, inert material (sand, clay, etc.). Transfer to disposal drums using non-sparking equipment.

Waste Disposal (Insure Conformity with all Applicable Disposal Regulations):
Incinerate or place in permitted waste management facility.

J. DOT Transportation

Shipping Name:	Fuel oil (No. 2)
Hazard Class:	3 (Flammable liquid)
ID Number:	NA 1993
Packing Group:	III
Marking:	Fuel oil (No.2), 1993
Label:	Flammable liquid
Placard:	Flammable/1993
Hazardous Substance/RQ:	Not applicable
Shipping Description:	Fuel oil (No. 2), 3 (Flammable liquid), NA 1993, PG III
Packaging References:	49 CFR 173.150, 173.203, 173.241

NOTE: This product may be reclassed as a combustible liquid when shipped domestically, by land only. If reclassed as a combustible liquid, this product is unregulated by DOT when shipped in non-bulk quantities.

K. RCRA Classification - Unadulterated Product as a Waste

Ignitable (D001)

Prior to disposal, consult your environmental contact to determine if TCLP (Toxicity Characteristic Leaching Procedure, EPA Test Method 1311) is required. Reference 40 CFR Part 261.

L. Protection Required for Work on Contaminated Equipment

Contact immediate supervisor for specific instructions before work is initiated. Wear protective equipment and/or garments described in Section C if exposure conditions warrant.

M. Hazard Classification

_X_ This product meets the following hazard definition(s) as defined by the Occupational Safety and Health Hazard Communication Standard (29 CFR Section 1910.1200):

_X_ Combustible Liquid	___ Flammable Aerosol	___ Oxidizer
___ Compressed Gas	___ Explosive	___ Pyrophoric
___ Flammable Gas	_X_ Health Hazard (Section F)	___ Unstable
___ Flammable Liquid	___ Organic Peroxide	___ Water Reactive
___ Flammable Solid		

___ Based on information presently available, this product does not meet any of the hazard definitions of 29 CFR Section 1910.1200.

EPAHO103001821

N. *Additional Comments*

SARA 313

This product contains the following chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. (See Section B).

Benzene

NFPA 704 Hazard Codes - - - - - - - - Signals

Health	: 1	Least - 0
Flammability	: 2	Slight - 1
Reactivity	: 0	Moderate - 2
Special Haz.	: -	High - 3
		Extreme - 4

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EPAHO103001822

Newpark Drilling Fluids 2195
Prof # 2195

EPAHO103001823

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/11/2007**

Dear **John Kirby**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2195

Generator: Newpark Drilling Fluids (Longview)
Address: 103 S. Supply Street
Longview, TX 75604

Waste Information

Name of Waste: Sodium hydroxide pellets
TCEQ Waste Code #: Product
Container Type: pallet
Detailed Description of Process Generating Waste:
Out of spec unused material
Color: white **Odor:** none **pH:** >12
Physical State:
Incompatibilities: acids
Safety Related Data/Special Handling:
level C

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Newpark Drilling Fluids		
Address:	103 S. Supply Street		
City, State, Zip:	Longview, TX 75604		
Contact:	David McMullin	**Title:**	Manager
Phone No:	903-235-5025	**Fax No:**	
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	NA		
State I.D.	NA	**SIC Code:**	

SECTION 2: Billing Information – ☐ Same as Above

Company:	Newpark Drilling Fluids		
Address:	1311 ~~Boadfield Blvd.~~ Broadfield Blvd		
City, State, Zip:	Houston, TX 77084		
Contact:	John Kirby	**Title:**	Manager
Phone No:	281-924-0942	**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Sodium Hydroxide Pellets
Detailed Description of Process Generating Waste: Out of spec unused material

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: White **Odor:** none

Specific Gravity (water=1): 1.5 **Density:** 14 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☒ Other (explain)
Container Size: ____ ____ ____ pallet

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 3 **Other:** ____
Texas State Waste Code No: NA-Product
Proper U.S. DOT Shipping Name: Sodium Hydroxide, solid, 8, UN1823, PG-II
Class: 8 **UN/NA:** UN1823 **PG:** PG-II **RQ:** 1000

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
NA	>12.0	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
0mg/l	0mg/l	0mg/l	0mg/l	0mg/l

...ysical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Ur or
Sodium Hydroxide Pellets	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level C

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
acids

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the fol generator knowledge:

TCLP Metals:	X
TCLP Volatiles:	X
TCLP Semi-Volatiles:	X
Reactivity:	X
Corrosivity:	X
Ignitability:	X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or wi omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the mate tested are representative of all materials described by this document.

Authorized Signature: David McMullen **Date:** 5-11-07

Printed Name/Title: DAVID MCMULLEN WAREHOUSE MANAGER.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert R Thayer

Date: 5-11-07 (Approved) Rejected

Approval Number: 2195

Additional Information: $200/pallet + Trans

EPAHO103001826

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001828

Enterprise Products Operating
Prof# 2196

EPAHO103001829

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/15/2007**

Dear **Mike Tomerlin**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2196

Generator: Enterprise Products Operating, L.P.
Address: 10207 FM 1942, Attn: Rachel Wheaton
Mont Belvieu, TX 77580

Waste Information

Name of Waste: Wastewater sludge
TCEQ Waste Code #: 00736031
Container Type: 25 yd vac box
Detailed Description of Process Generating Waste:
Removal of sludge from wastewater sump
Color: dark **Odor:** none **pH:** 3-12
Physical State:
Incompatibilities: none known
Safety Related Data/Special Handling:
standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

00736031

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Enterprise Products Operating, LP		
Address:	~~10207 FM 1942~~ P.O. Box 573 Attn: Rachel Wheaton		
City, State, Zip:	Mont Belvieu, TX 77580		
Contact:	Mike Tomerlin	Title:	Field Environmental ~~Manager~~ Lead
Phone No:	281-385-4200	Fax No:	
24/hr Phone:	281-385-4200		
U.S. EPA I.D. No:	TXT490013455		
State I.D.	31038	SIC Code:	2869

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		Title:	
Phone No:		Fax No:	

SECTION 3: General Description of the Waste

Name of Waste: Wastewater Sludge
Detailed Description of Process Generating Waste: Removal of sludge from the wastewater sump.

Physical State: ☒ Liquid ☒ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Dark Odor: None

Specific Gravity (water=1): 1.2 Density: 10 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☒ Other (explain)
Container Size: ____ ____ ____ 25 yd vac box

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 2 Other: ____

* Texas State Waste Code No: 00736031
Proper U.S. DOT Shipping Name: Non DOT regulated wastewater sludge
Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point >160	pH 3-12	Reactive Sulfides <50mg/l	Reactive Cyanides <50mg/l	Solids 50-90%
Oil&Grease N/Amg/l	TOC N/Amg/l	Zinc N/Amg/l	Copper N/Amg/l	Nickel N/Amg/l

APR-28-2007 10:51 CES Environmental Service 713 676 1676 P.02

EPAHO103001831

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	10-20	%
Dirt/Sand/Rocks	80-90	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Analysis

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None Known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ____
TCLP Volatiles: ____
TCLP Semi-Volatiles: ____
Reactivity: ____
Corrosivity: ____
Ignitability: ____

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ Date: 4/30/07

Printed Name/Title: Mike Tomerlin/Field Environmental Lead

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Rhamy

Date: 5-15-07 (Approved) Rejected

Approval Number: 2196

Process Facility Information:

OSL

APR-28-2007 10:51 CES Environmental Service 713 676 1676 P.03

EPAHO103001832

ENVIRON EXPRESS LABORATORIES, INC.

401 N. 11th. St.
La Porte, TX 77571
281.471.0951 FAX:281.471.5821

CERTIFICATE OF ANALYSIS NO: 61706.01 1of 1

Customer: **CES Env. Svcs.** Sample ID: **Spooge Sludge** Environ ID: **61706.01**
Project ID: **Enterprise Products** **Waste** Sampled: **04-02-07**
Project Loc: **North Plant** Matrix: **Sludge** Received: **04-02-07**
Project No: Type: **Composite** Reported: **04-13-07**

RECEIVED BASIS

ANALYTE / PARAMETER	RESULT	UNITS	REG. LIMIT	MQL	TEST METHOD	ANALYST	DATE	TIME
RCI								
Reactive Cyanide	< 50	mg/kg	250	50	SW846.7.3.3	LC	04-03-07	17:00
Reactive Sulfide	< 50	mg/kg	500	50	SW846.7.3.4	LC	04-03-07	17:40
Corrosivity (Ph)	11.5	su	=>2; =<12.5	--	SW846.9045C	OLC	04-03-07	17:15
Ignitability	> 160	°F	> 140	--	SW846.1010	LC	04-05-07	09:00
METALS (RCRA) - TCLP					SW846.1311	MN	04-02-07	
Arsenic	< 0.02	mg/l	5.00	0.02	SW846.6010B	JK	04-04-07	16:00
Barium	0.51	mg/l	100	0.02	SW846.6010B	JK	04-04-07	16:00
Cadmium	< 0.02	mg/l	1.00	0.02	SW846.6010B	JK	04-04-07	16:00
Chromium	0.04	mg/l	5.00	0.02	SW846.6010B	JK	04-04-07	16:00
Lead	0.02	mg/l	5.00	0.02	SW846.6010B	JK	04-04-07	16:00
Selenium	< 0.05	mg/l	1.00	0.05	SW846.6010B	JK	04-04-07	16:00
Silver	< 0.05	mg/l	5.00	0.05	SW846.6010B	JK	04-04-07	16:00
Mercury	< 0.002	mg/l	0.200	0.002	SW846.7470A	MN	04-06-07	08:00
VOC - TCLP (Dilution Factor: 1000.0)					SW846.1311	MN	04-02-09	
Benzene	< 4.0	mg/l	0.5	4.0 *	SW846.8260B	JAC	04-05-07	16:58
2-Butanone (MEK)	< 10.0	mg/l	200.0	10.0	SW846.8260B	JAC	04-05-07	16:58
Carbon tetrachloride	< 4.0	mg/l	0.5	4.0 *	SW846.8260B	JAC	04-05-07	16:58
Chlorobenzene	< 4.0	mg/l	100	4.0	SW846.8260B	JAC	04-05-07	16:58
Chloroform (Trichlorometha	< 4.0	mg/l	6.0	4.0	SW846.8260B	JAC	04-05-07	16:58
1,2-Dichloroethane (EDC)	< 4.0	mg/l	0.5	4.0 *	SW846.8260B	JAC	04-05-07	16:58
1,1-Dichloroethene	< 4.0	mg/l	0.7	4.0 *	SW846.8260B	JAC	04-05-07	16:58
Tetrachloroethene	< 4.0	mg/l	0.7	4.0 *	SW846.8260B	JAC	04-05-07	16:58
Trichloroethene	< 4.0	mg/l	0.5	4.0 *	SW846.8260B	JAC	04-05-07	16:58
Vinyl chloride	< 4.0	mg/l	0.2	4.0 *	SW846.8260B	JAC	04-05-07	16:58
SVOC - TCLP (Dilution Factor: 2.0)					SW846.1311	MN	04-02-09	
1,4-Dichlorobenzene	< 10.0	mg/l	7.5	10.0 *	SW846.8270C	JAC	04-11-07	23:23
2,4-Dinitrotoluene	< 10.0	mg/l	0.13	10.0 *	SW846.8270C	JAC	04-11-07	23:23
Hexachlorobenzene	< 10.0	mg/l	0.13	10.0 *	SW846.8270C	JAC	04-11-07	23:23
Hexachlorobutadiene	< 10.0	mg/l	0.50	10.0 *	SW846.8270C	JAC	04-11-07	23:23
Hexachloroethane	< 10.0	mg/l	3.0	10.0 *	SW846.8270C	JAC	04-11-07	23:23
2-Methylphenol (o-Cresol)	< 10.0	mg/l	(200)	10.0	SW846.8270C	JAC	04-11-07	23:23
3&4-Methylphenol (m&p-Cr	< 10.0	mg/l	(o+m+p)	10.0	SW846.8270C	JAC	04-11-07	23:23
Nitrobenzene	< 10.0	mg/l	2.0	10.0 *	SW846.8270C	JAC	04-11-07	23:23
Pentachlorophenol	< 40.0	mg/l	100	40.0	SW846.8270C	JAC	04-11-07	23:23
Pyridine	< 10.0	mg/l	5.0	10.0 *	SW846.8270C	JAC	04-11-07	23:23
2,4,5-Trichlorophenol	< 10.0	mg/l	400	10.0	SW846.8270C	JAC	04-11-07	23:23
2,4,6-Trichlorophenol	< 10.0	mg/l	2.0	10.0 *	SW846.8270C	JAC	04-11-07	23:23

QUALITY CONTROL – TCLP VOC SURROGATE RECOVERIES

SURROGATE	RESULTS (mg/l)	% RECOVERY	RANGE %
1,2-Dichloroethane-d4 (SS)	0.049	98	76-114
Toluene-d8 (SS)	0.054	108	80-120
4-Bromofluorobenzene (SS)	0.052	104	80-120

QUALITY CONTROL – TCLP SVOC SURROGATE RECOVERIES

SURROGATE	RESULTS (mg/l)	% RECOVERY	RANGE %
Nitrobenzene-d5	**	**	35-114
2-Fluorobiphenyl	**	**	43-116
Terphenyl-d14	**	**	33-141
Phenol-d5	**	**	21-100
2-Fluorophenol	**	**	10-100
2,4,6-Tribromophenol	**	**	10-123

Definitions: TCLP - Toxcisity Characteric Leaching Procedure su - Standard Units
REG - Regulatory Limit (User Should Confirm Lin VOC - Volatile Organic Compounds
MQL - Method Quantitation Limit SVOC - Semivolatile Organic Compounds
PPM - Parts Per Million * REG<MQL Use process knowledge or MSDS
mg/l - PPM by Volume, mg/kg - PPM by Weight ** Diluted Out of Range

John Keller

John Keller, Ph.D
Laboratory Director

EPAHO103001833

Express Laboratories
401 N. 11TH. ST.
LA PORTE, TX 77571
281/471-0951 FAX:281/471-5821

INFORMATIONAL REPORT

CUSTOMER:
CES Environmental Services
SAMPLE:
Spooge Sludge (61706.01)
VOC & SVOC Analysis
EPA SW846/8260B/8270C
DATE:
13-Apr-07

This sample had to be diluted for the TCLP Volatile (VOC) and Semivolatile (SVOC) analysis because of the high concentration of non-target analytes which would otherwise flood the detector and prevent a valid analysis according to EPA requirements. In addition, the SVOC extract could not be concentrated to the required volume to achieve regulatory limits.
The dilution caused many of the detection limits to be above the Regulatory Limit.

Process knowledge or MSDS information will have to be used to determine if those components are present in the sample and could be above the Regulatory Limit.

John Keller

John E. Keller, Ph.D.
Lab. Dir./QC Manager

Standard

CHAIN OF CUSTODY

Page 1 of 1

ENVIRON EXPRESS LABORATORIES, INC.
401 North 11th. St. / La Porte, Texas 77571-3115
(281) 471-0951 / (800) 880-0156
Fax: (281) 471-5821 / After Hours: (281) 844-2308
e-mail: environexp@aol.com

Results To: CES ENV.	Invoice To: CES ENV.
Company: CES ENV.	Company: CES ENV.
Address:	Address:
City State: Zip:	City: State: Zip:
Phone:	Phone:
Fax:	Fax:
e-Mail:	PO#: Quote#:

TAT (WORKING DAYS) CIRCLE ONE: 1 2 3 (5)

LAB LOT #	COC Present? (Yes) No
Shipment Sealed? (Yes) No	Samples Sealed? (Yes) No
Received on Ice? (Yes) No	Samples Intact? (Yes) No
Cooler Temp. (°C) 2°	Preservative Shown? Yes (No) NA
Hold Time OK? (Yes) No	Res. Cl2 Check OK? Yes No (NA)
pH Check OK? Yes No (NA)	COC & Labels Agree? (Yes) No

Remarks & Additional Analyses

Project Name: Enterprise Products
Project Location: North Plant
Project No:
Sampler (Print): Matt Bowman
Sampler (Sign): Matt Bowman

Sampler Remarks:

EEL USE ONLY (LAB NO.)	SAMPLE ID.	DATE/TIME SAMPLED	[1] MATRIX	(C)OMP / (G)RAB	BTEX (8021B)	TPH (TX1005.3)	RCI	PAH	TOTAL EPA TCLP: VOLATILES	SEMI-VOLS	RCRA 8 METALS	RCI
	[2] Cntr. Type		P									
	Number		1									
	Volume		500ml									
	[3] Preservative		1									
61706.01	1) Sponge Sludge Waste	9/2/07 9:45AM	Sludge	C					X	X	X	X
	2)											
	3)											
	4)											
	5)											
	6)											
	7)											
	8)											
	9)											
	10)											

Relinquished By: Matt Bowman	Company: CES Env.	Date/Time: 9/2/07 5:30 PM	Received By:
Relinquished By: Clark Hackney	Company:	Date/Time: 9/3/07 10:50 am	Received By: R. Hargrove
Relinquished By:	Company:	Date/Time:	Received By:

Company: (4-3-07 Drop Box)

[1] **Matrix Key**
S:Soil W:Water WW:Waste Water SL:Sludge SO:Solid SE:Sediment L: Leachate WI:Wipe OR:Organic OL:Oil DS:Drum Solid DL:Drum Liquid O:Other _____

[2] **Container Type Key**
P:Plastic G:Glass V:VOA Glass O:Other _____

[3] **Preservative Key**
1:Ice(<4°C) 2:HCL 3:H2SO4 4:HNO3 5:NaOH 6:NaOH+Zn Acetate 7:Na2S2O3 8:None

Delivery of samples constitutes acceptance of Environ's terms and conditions in the Price Schedule.

4-13-07; 3:19PM; Environ ;2814715821 # 4/ 4

EPAHO103001835

Texas A & M Univ 2197
Proof # 2197

EPAHO103001836

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/15/2007**

Dear **Dear Artero or Todd Conner**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2197

Generator: Texas A & M University
Address: 1595 Nuclear Science Road
College Station, TX 77843

Waste Information

Name of Waste: Fire water sump waste
TCEQ Waste Code #: 00384891
Container Type:
Detailed Description of Process Generating Waste:
Waste material generated from fire training school, putting out fires with water and fire extinguishers
Color: clear/grey **Odor:** none **pH:** neutral
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Texas A&M University System Mail Manifest to: TEEX		
Address:	1595 Nuclear Science Road	301 Tarrow	
City, State, Zip:	College Station, TX 77843	College Station, TX 77840-7896 Attn: Ron Peddy	
Contact:	Ron Peddy	**Title:**	Manager
Phone No:	979-847-8723	**Fax No:**	979-458-1711
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	TXD000789800		
State I.D.	66015	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	C-4 Environmental Services		
Address:	P.O. Box 692375		
City, State, Zip:	Houston, TX 77269		
Contact:	Todd Conner	**Title:**	Manager
Phone No:	281-459-9992	**Fax No:**	281-459-9960

SECTION 3: General Description of the Waste

Name of Waste: Fire Water Sump Waste
Detailed Description of Process Generating Waste: Waste material generated from fire training school, putting out fires with water and fire extinguishers

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Clear Grey **Odor:** none

Specific Gravity (water=1): 1.0-1.1 **Density:** 8 lbs/gal

Layers: ☐ Single-phase ☒ Multi-phase

Container Type:	☐ Drum	☐ Tote	☒ Truck	☒ Other (explain)
Container Size:			3000 gal	Vacuum Box-3500 gallons

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 5 **Other:**
Texas State Waste Code No: 00384891
Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point >150	**pH** neutral	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 10-20%
Oil&Grease >1500mg/l	**TOC** >1500mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

EPAHO103001838

SECTION 4: Physical and Chemical Data

The waste consists of the following materials	Ranges are acceptable	or %
Water	80-99	%
Sodium Bicarbonate	0-5	%
ash, grass, dirt	1-20	%
diesel Fuel,	0-0.5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Analysis

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ____
TCLP Volatiles:
TCLP Semi-Volatiles:
Reactivity:
Corrosivity:
Ignitability:

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: T. Conner **Date:** 5/15/07

Printed Name/Title: Todd Conner, C 4 Environmental, as agent for TEEX

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Reynolds

Date: 5-15-07 Approved Rejected

Approval Number: 2197

Additional Information: IL
Liquid 15 ¢/bbl
Sludge 35 ¢/bbl
Processing 10 ¢/bbl
Trans 70 ¢ MR + FSC

EPAHO103001839

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☒ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001840

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001841

LABORATORY ANALYTICAL REPORT

Client: EOG Environmental Inc
Project: TEEX
Lab ID: T07040123-001
Client Sample ID: Sludge Sample

Report Date: 05/14/07
Collection Date: 04/30/07
DateReceived: 04/30/07
Matrix: Sludge

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
pH of Soil and Waste	8.1	s.u.		0.1		SW9045D	05/02/07 09:30 / eli-b
PHYSICAL PROPERTIES							
Flash Point (Ignitability)	>200	°F		30		SW1010M	05/02/07 15:18 / eli-b
REACTIVITY							
Sulfide, Reactive	ND	mg/kg		20.0	500	SW846 Ch 7	05/02/07 10:00 / eli-b
Cyanide, Reactive	ND	mg/kg		0.050	250	SW846 Ch 7	05/02/07 15:39 / eli-b
METALS, TCLP EXTRACTABLE							
Arsenic	ND	mg/L		0.5	5	SW6010B	05/04/07 00:24 / eli-b
Barium	ND	mg/L		10	100	SW6010B	05/04/07 00:24 / eli-b
Cadmium	ND	mg/L		0.1	1	SW6010B	05/04/07 00:24 / eli-b
Chromium	ND	mg/L		0.5	5	SW6010B	05/04/07 00:24 / eli-b
Lead	ND	mg/L		0.5	5	SW6010B	05/04/07 00:24 / eli-b
Mercury	ND	mg/L		0.02	0.2	SW7470A	05/04/07 16:07 / eli-b
Selenium	ND	mg/L		0.1	1	SW6010B	05/04/07 00:24 / eli-b
Silver	ND	mg/L		0.5	5	SW6010B	05/04/07 00:24 / eli-b
VOLATILE ORGANIC COMPOUNDS, TCLP EXTRACTABLE							
1,1-Dichloroethene	ND	mg/L		0.01	0.7	SW1311/8260	05/08/07 15:45 / eli-b
1,2-Dichloroethane	ND	mg/L		0.01	0.5	SW1311/8260	05/08/07 15:45 / eli-b
1,4-Dichlorobenzene	ND	mg/L		0.01	7.5	SW1311/8260	05/08/07 15:45 / eli-b
Benzene	0.008	mg/L	J	0.01	0.5	SW1311/8260	05/08/07 15:45 / eli-b
Carbon tetrachloride	ND	mg/L		0.01	0.5	SW1311/8260	05/08/07 15:45 / eli-b
Chlorobenzene	ND	mg/L		0.01	100	SW1311/8260	05/08/07 15:45 / eli-b
Chloroform	ND	mg/L		0.01	6	SW1311/8260	05/08/07 15:45 / eli-b
Methyl ethyl ketone	ND	mg/L		0.2	200	SW1311/8260	05/08/07 15:45 / eli-b
Tetrachloroethene	ND	mg/L		0.01	0.7	SW1311/8260	05/08/07 15:45 / eli-b
Trichloroethene	ND	mg/L		0.01	0.5	SW1311/8260	05/08/07 15:45 / eli-b
Vinyl chloride	ND	mg/L		0.01	0.2	SW1311/8260	05/08/07 15:45 / eli-b
Surr: 1,2-Dichloroethane-d4	110	%REC			70-130	SW1311/8260	05/08/07 15:45 / eli-b
Surr: Dibromofluoromethane	102	%REC			77-126	SW1311/8260	05/08/07 15:45 / eli-b
Surr: p-Bromofluorobenzene	103	%REC			76-127	SW1311/8260	05/08/07 15:45 / eli-b
Surr: Toluene-d8	100	%REC			79-122	SW1311/8260	05/08/07 15:45 / eli-b

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level.
QCL - Quality control limit. ND - Not detected at the reporting limit.
J - Estimated value. The analyte was present but less than the reporting limit.

PRELIMINARY

Slay Transportation 2198
2198

EPAHO103001843

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/16/2007**

Dear **Jesse Garza**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2198

Generator: Slay Transportation Company
Address: 16643 Jacinto Port Blvd (Attn: Ray Jeannott)
Houston, TX 77015

Waste Information

Name of Waste: Empty drums
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Empty product drums from hydrocarbon manufacturer
Color: varies **Odor:** none **pH:** na
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

DC

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Slay Transportation Company		
Address:	16643 Jacinto Port Blvd		
City, State, Zip:	Houston, TX 77015		
Contact:	Jesse Garza	**Title:**	Manager
Phone No:	281-452-9000 ext 610	**Fax No:**	713-452-0524
24/hr Phone:	713-201-2469		
U.S. EPA I.D. No:	TXD000008920		
State I.D.	84084	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Empty drums
Detailed Description of Process Generating Waste: Empty product drums from hydrocarbon manufacturer

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: varies **Odor:** none

Specific Gravity (water=1): 1.4 **Density:** 10 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 gal

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 20 **Other:**
Texas State Waste Code No: Recyclable
Proper U.S. DOT Shipping Name: Non RCRA Non DOT Regulated Recyclable drums
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point NA	**pH** NA	**Reactive Sulfides** NAmg/l	**Reactive Cyanides** NAmg/l	**Solids** 100%
Oil&Grease NAmg/l	**TOC** NAmg/l	**Zinc** NAmg/l	**Copper** NAmg/l	**Nickel** NAmg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Empty Drums	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
none

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
none

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ____
TCLP Volatiles: ____
TCLP Semi-Volatiles: ____
Reactivity: ____
Corrosivity: ____
Ignitability: ____

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 5-16-07

Printed Name/Title: Jesse Garza/Manager

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Reynolds

Date: 5-16-07 Approved Rejected

Approval Number: 2198

Additional Information: $10/ea

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

Texmark Chemicals 2199
2199

EPAHO103001849

7E
8-4-09
LAB
T. 34

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/17/2007**

Dear **Linda Salinas**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2199

Generator: Texmark Chemicals, Inc.
Address: 900 Clinton Drive
Galena Park, TX 77547

Waste Information

Name of Waste: Oil/water emulsion (Eggnog)
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Lube oil additive process distilled overhead water stream
Color: light brown to yellow **Odor:** none **pH:** 9-12
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

MAY 17 2007 4:28 PM FR TEXMARK ANNEX 7134951246 TO 7136761676 P.02

SECTION 1: Generator Information

Company:	Texmark Chemicals, Inc.		
Address:	900 Clinton Drive		
City, State, Zip:	Galena Park, TX 77547		
Contact:	Linda Salinas	**Title:**	Environmental Manager
Phone No:	713-455-1206	**Fax No:**	713-455-8959
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	NA		
State I.D.	NA	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:			
Address:	P.O. Box 67		
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: Oil/Water Emulsion (Eggnog)
Detailed Description of Process Generating Waste: Lube oil additive process-distilled overhead water stream

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: light brown to yellow **Odor:** none

Specific Gravity (water=1): 0.90 **Density:** 8 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☐	Drum	☐	Tote	☒	Truck	☐ Other (explain)
Container Size:		____		____		2000	____

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 1 **Other:** ____
Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point >140	**pH** 9-12	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** <2%
Oil&Grease >1500mg/l	**TOC** >1500mg/l	**Zinc** 0mg/l	**Copper** 0mg/l	**Nickel** 0mg/l

EPAHO103001852

COMPONENTS TABLE The waste consists of the following materials	CONCENTRATION Ranges are acceptable	Units or %
Lube Additive	10-20	%
Water	80-90	%
Reacted Amine	0-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
CES Report

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the material tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 5-17-07

Printed Name/Title: LINDA SALINAS / ENVIRONMENTAL MANAGER

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____ Additional Information: 20¢/gallon

Date: 5-17-07 Approved Rejected + Truck 65.00/Hr

Approval Number: 2199 + FSC

MAY 17 2007 4:28 PM FR TEXMARK ANNEX 7134951246 TO 7136751676 P.03

EPAHO103001853

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

MAY 17 2007 4:28 PM FR TEXMARK ANNEX 7134951246 TO 7136761676 P.04

EPAHO103001854

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

MAY 17 2007 4:29 PM FR TEXMARK ANNEX 7134951246 TO 7136761676 P.05

** TOTAL PAGE.05 **

EPAHO103001855

TEXMARK CHEMICALS, INC.
900 CLINTON DRIVE
P.O. BOX 67
GALENA PARK, TEXAS 77547
TELEPHONE NUMBER (713) 455-1206
FAX NUMBER (713) 455-8959

FAX TRANSMITTAL

DATE: May 17, 2007

TO: Garv

COMPANY: CES

FAX NUMBER: 713-676-1676

FROM: Linda Salinas

NUMBER OF PAGES: 4+1

Thank you.

MAY 17 2007 4:28 PM FR TEXMARK ANNEX 7134951246 TO 7136751675 P.01

Williams Brothers 2175
Prof # 2175

EPAHO103001857

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/23/2007**

Dear **Zac or Dave**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2175

Generator: Williams Brothers
Address: 1650 Holmes
Houston, TX 77045

Waste Information

Name of Waste: Magic Kote WB
TCEQ Waste Code #: CESQ1191
Container Type:
Detailed Description of Process Generating Waste:
Unused / out of date material
Color: creamy white **Odor:** none **pH:** na
Physical State:
Incompatibilities: None Known
Safety Related Data/Special Handling:
na

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

Utton - Lurl - Hyd

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

DB

SECTION 1: Generator Information

Company: Williams Brothers
Address: ~~Kirby; Main~~ 1650 Holmes Rd
City, State, Zip: Houston, TX 77045
Contact: John Fleck Title: HSE
Phone No: 832-709-4191 Fax No: 626-487-3674
24/hr Phone: 281-541-4829
U.S. EPA I.D. No: ~~N/A~~ TXCESQG
State I.D. ~~N/A~~ CESQG SIC Code: NA

SECTION 2: Billing Information – ☐ Same as Above

Company: CMB Services
Address: 10707 Honea Egypt Rd
City, State, Zip: Montgomery, TX 77316
Contact: Traci Fisher Title: office mgr
Phone No: 936-483-3602 Fax No: 936 483 3607

SECTION 3: General Description of the Waste

Name of Waste: Magic Kote WB
Detailed Description of Process Generating Waste: unused/out of date material

Physical State: ☒ Liquid ☒ Solid ☐ Sludge ☐ Filter Cake ☐ Powder ☐ Combination

Color: Creamy White Odor: N/O

Specific Gravity (water=1): 1.1 Density: 9 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 4 Other:
Texas State Waste Code No: CESQ1191
Proper U.S. DOT Shipping Name: Not Regualted, Non Dot ~~Waste~~ Magic Kote KIB
Class: N/A UN/NA: N/A PG: N/A RQ: N/A

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
N/A	N/D	mg/l	mg/l	0 %
Oil & Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
mg/l	mg/l	mg/l	mg/l	mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
nitrilotriethanol	~~2.5~~ 1-2.5	%
Water	96.5 - 99	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
N/A

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
N/A

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ✓
TCLP Volatiles: ✓
TCLP Semi-Volatiles: ✓
Reactivity: ✓
Corrosivity: ✓
Ignitability: ✓

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] **Date:** 4/17/07

Printed Name/Title: Zac McKaughn

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robbert Shangrah Additional Information: IL

Date: 4-23-07 Approved Rejected $65/dm

Approval Number: 2175

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

WIS ... 7
CES

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 01/02/2005 Reviewed on 01/02/2005

1 Identification of substance

· **Product details**

· **Trade name: Magic Kote WB**

· **Article number: 83-243005**

· **Application of the substance / the preparation**

· **Manufacturer/Supplier:**
Symons
4226 Kansas Avenue Tel.: (877) 854-0643
Kansas City, KS 66106

Emergency Telephone Number: Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident involving chemicals. Within the U.S., Canada, or the U.S. Virgin Islands, call ChemTrec at (800) 424-9300, 24 hours a day. Or, outside these areas, call (703) 527-3887. Collect calls are accepted.

· **Information department: Environmental, Health, and Safety department.**

2 Composition/Data on components

· **Chemical characterization**
· **Description: Mixture of the substances listed below with nonhazardous additions.**

· **Dangerous components:**

102-71-6	2,2',2''-nitrilotriethanol	≤ 2.5%

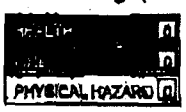
· **Additional information: For the wording of the listed risk phrases refer to section 16.**

3 Hazards identification

· **Hazard description: Not applicable.**
· **Information pertaining to particular dangers for man and environment:**
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
· **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
· **NFPA ratings (scale 0 - 4)**

Health = 0
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 0
Fire = 0
Reactivity = 0

4 First aid measures

· **General information: No special measures required.**
· **After inhalation: Supply fresh air; consult doctor in case of complaints.**

(Contd. on page 2)

EPAHO103001863

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 01/02/2005 Reviewed on 01/02/2005

Trade name: Magic Kote WB

(Contd. of page 1)

· **After skin contact:** If skin irritation continues, consult a doctor.
· **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
· **After swallowing:** If symptoms persist consult doctor.

5 Fire fighting measures

· **Suitable extinguishing agents:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **Protective equipment:**
Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6 Accidental release measures

· **Person-related safety precautions:** Not required.
· **Measures for environmental protection:** Dilute with plenty of water.
· **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
· **Additional information:** No dangerous substances are released.

7 Handling and storage

· **Handling:**
· **Information for safe handling:** No special measures required.
· **Information about protection against explosions and fires:** No special measures required.

· **Storage:**
· **Requirements to be met by storerooms and receptacles:** No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** None.

8 Exposure controls and personal protection

· **Additional information about design of technical systems:** No further data; see item 7.

· Components with limit values that require monitoring at the workplace:	
102-71-6 2,2',2''-nitrilotriethanol	
TLV 0	5 mg/m³

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Personal protective equipment:**
· **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
· **Breathing equipment:** Not required.
· **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests, no recommendation to the glove material can be given for the product.
Select the glove material upon consideration of the penetration times, rates of diffusion and the degradation.

(Contd. on page 3)

EPAHO103001864

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 01/02/2005 Reviewed on 01/02/2005

Trade name: Magic Kote WB

(Cont. of page 2)

· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye protection:** Goggles recommended during refilling.

9 Physical and chemical properties

· **General Information**	
Form:	Fluid
Color:	According to product specification
Odor:	Characteristic
· **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100°C (212°F)
· **Flash point:**	Not applicable.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Vapor pressure at 20°C (68°F):**	23.0 hPa (17 mm Hg)
· **Density at 20°C (68°F):**	0.98 g/cm³
· **Solubility in / Miscibility with**	
Water:	Fully miscible.
· **Solvent content:**	
Organic solvents:	2.0 %
Water:	83.9 %
· **Solids content:**	2.1 %
· **Volatile Organic Compounds:**	Contains 0 g/L.

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Dangerous reactions** No dangerous reactions known.
· **Dangerous products of decomposition:** No dangerous decomposition products known.

11 Toxicological information

· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** No irritating effect.

(Cont. on page 4)

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 01/02/2005 Reviewed on 01/02/2005

Trade name: Magic Kote WB

(Contd. of page 3)

· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

13 Disposal considerations

· **Product:**
· **Recommendation:** Smaller quantities can be disposed of with household waste.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to Federal, State, and Local regulations.
· **Recommended cleaning agent:** Water, if necessary with cleansing agents.

14 Transport information

· **Limited Quantity Exemption:**	No Limited Quantity exemption applies for this shipping class.
· **U.S. Domestic Ground Shipments:**	Same as listed for Standard Shipments above.
· **U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments:**	Same as listed for Standard Shipments above.
· **Emergency Response Guide (ERG) Number:**	Not determined
· **Maritime transport IMDG:**	
· **Marine pollutant:**	No

15 Regulations

· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**
This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.

111-42-2	2,2'-iminodiethanol	≤0.1%

· **TSCA (Toxic Substances Control Act):**
All ingredients are listed.

· **Proposition 65**

· **Chemicals known to the State of California (Prop. 65) to cause cancer:**
None of the ingredients is listed.

· **Chemicals known to the State of California (Prop. 65) to cause reproductive toxicity:**
None of the ingredients is listed.

(Contd. on page 5)

EPAHO103001866

Material Safety Data Sheet
acc. to ISO/DIS 11014

Printing date 01/02/2005 Reviewed on 01/02/2005

Trade name: Magic Kote WB

(Contd. of page 4)

· **Canceragenity categories**

· EPA (Environmental Protection Agency)		
None of the ingredients is listed.		
· IARC (International Agency for Research on Cancer)		
102-71-6	2,2',2''-nitrilotriethanol	3
111-42-2	2,2'-iminodiethanol	3
· NTP (National Toxicology Program)		
None of the ingredients is listed.		
· TLV (Threshold Limit Value established by ACGIH)		
None of the ingredients is listed.		
· MAK (German Maximum Workplace Concentration)		
None of the ingredients is listed.		
· NIOSH-Ca (National Institute for Occupational Safety and Health)		
None of the ingredients is listed.		
· OSHA-Ca (Occupational Safety & Health Administration)		
None of the ingredients is listed.		

· **Product related hazard informations:**
Observe the general safety regulations when handling chemicals.
The product is not subject to identification regulations according to directives on hazardous materials.

16 Other information

The provided information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing MSDS: Environmental, Health & Safety Department**
· **Contact: Environmental, Health & Safety Manager**

USA

EPAHO103001867

Williams Brothers 2176
Prof # 2176

EPAHO103001868

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/23/2007**

Dear **Zac or Dave**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2176

Generator: Williams Brothers
Address: 1650 Holmes
Houston, TX 77045

Waste Information

Name of Waste: Chevron ultra duty grease with debris (plastic & Paper)
TCEQ Waste Code #: CESQ4091
Container Type:
Detailed Description of Process Generating Waste:
Unused product with debris
Color: dark **Odor:** slight grrease **pH:** 7
Physical State:
Incompatibilities: na
Safety Related Data/Special Handling:
na

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

Attn. Dom 8 pgs

0

DB

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Williams Brothers
Address: ~~Kirby & Holmes Yard~~ 1650 Holmes Rd
City, State, Zip: Houston TX 77045
Contact: Mark Anderson Title: HSE
Phone No: 832-709-4236 Fax No:
24/hr Phone: 281-541-4829
U.S. EPA I.D. No: ~~N/A~~ TX CESQG
State I.D. ~~N/A~~ CESQG SIC Code: N/A

SECTION 2: Billing Information – ☐ Same as Above

Company: CNA Services
Address: 10707 Hooea Egypt
City, State, Zip: Montgomery, TX 77316
Contact: Tracy Fisher Title: Office mgr.
Phone No: 936-483-3662 Fax No: 936-483-3674

SECTION 3: General Description of the Waste

Name of Waste: Chevron Ultra Duty Grease with Debris (Plastic + Paper)
Detailed Description of Process Generating Waste: Unused product w/ Debris

Physical State: ☒ Liquid ☒ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: Dark Odor: Slight (Grease)

Specific Gravity (water=1): .9-1 Density: 8-9 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 25 Other:
Texas State Waste Code No: CESQ4091
Proper U.S. DOT Shipping Name: Non RCRA, Non-DOT
Class: N/A UN/NA: N/A PG: NA RQ: NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
N/A	7	mg/l N/A	mg/l N/A	100 %

Oil&Grease	TOC	Zinc	Copper	Nickel
NA mg/l	NA mg/l N/A	mg/l N/A	mg/l N/A	mg/l N/A

EPAHO103001870

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration - Ranges are acceptable	Units or %
Unused Grease	50 %	
Plastic	20 %	
Absorbents	20 %	
Paper	10 %	
Debris	0 - 10 %	

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

N/A

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

N/A

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

N/A

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals:
TCLP Volatiles:
TCLP Semi-Volatiles:
Reactivity:
Corrosivity:
Ignitability:

SECTION 9: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 4/19/07

Printed Name/Title: Jen McHenry

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Barbara Thyrum

Date: 4-23-07 Approved Rejected

Approval Number: 2176

Additional Information: OS

Solids @ $35/dm

Partial Liquids/Sludges @ $55/dm

EPAHO103001871

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001872

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001873

Boiling Point: N/A
Vapor Pressure (MM Hg/70 F): N/A
Vapor Density (Air=1): N/A
Evaporation Rate And Ref: NOT APPLICABLE
Solubility In Water: INSOLUBLE
Percent Volatiles By Volume: N/A

Fire and Explosion Hazard Data

Flash Point: NOT APPLICABLE
Lower Explosive Limit: N/A
Upper Explosive Limit: N/A
Extinguishing Media: CO2, DRY CHEMICAL, FOAM, WATER FOG.
Special Fire Fighting Proc: USE NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE
EQUIPMENT (FP N).
Unusual Fire And Expl Hazrds: NORMAL COMBUST FORMS CARBON DIOXIDE, WATER
VAPOR & MAY PRODUCE OXIDES OF SULFUR, NITROGEN & PHOSPHOROUS. INCOMPLETE
COMBUST CAN PRODUCE CARBON MONOXIDE.

Reactivity Data

Stability: YES
Cond To Avoid (Stability): NONE SPECIFIED BY MANUFACTURER.
Materials To Avoid: MAY REACT W/STRONG OXIDIZING AGENTS, SUCH AS
CHLORATES, NITRATES, PEROXIDES, ETC.
Hazardous Decomp Products: NO DATA AVAILABLE.
Hazardous Poly Occur: NO
Conditions To Avoid (Poly): NOT RELEVANT

Health Hazard Data

LD50-LC50 Mixture: NONE SPECIFIED BY MANUFACTURER.
Route Of Entry - Inhalation: NO
Route Of Entry - Skin: NO
Route Of Entry - Ingestion: NO
Health Haz Acute And Chronic: EYE/SKIN CONT:THIS SUBSTANCE IS NOT EXPECTED
TO CAUSE PRLNG/SIGNIFICANT IRRIT. DERMAL TOX:IF ABSORBED THRU SKIN, THIS
SUBSTANCE IS CONSIDERED PRACTICALLY NONTOX TO INTERNAL ORGANS. HIGH-PRESS
EQUIP INFO:ACCIDENTAL HIGH-VELOCITY INJECTION UNDER SKIN OF MATLS OF THIS
TYPE MAY RSLT IN SERIOUS INJURY. SEEK(EFTS OF OVEREXP)
Carcinogenicity - NTP: NO
Carcinogenicity - IARC: NO
Carcinogenicity - OSHA: NO
Explanation Carcinogenicity: NOT RELEVANT
Signs/Symptoms Of Overexp: HLTH HAZ:MED ATTN AT ONCE SHOULD ACCIDENT LIKE
THIS OCCUR. INITIAL WOUND AT INJECTION SITE MAY NOT APPEAR TO BE SERIOUS AT
FIRST; BUT, IF LEFT UNTREATED, COULD RSLT IN DISFIGUREMENT/ AMPUTATION OF
AFFECTED PART. INHAL/INGEST:SYSTEMIC TOX OF THIS SUBSTANCE HAS NOT BEEN

DETERMINED. HOWEVER, IT SHOULD BE (SUPP DATA)
Med Cond Aggravated By Exp: NONE SPECIFIED BY
MANUFACTURER.
Emergency/First Aid Proc: INHAL:REMOVE TO FRESH AIR.
SUPPORT BRTHG (GIVE
O2/ARTF RESP) (PP N). EYE:FLUSH W/FRESH WATER FOR AT LST
15 MINS. REMOVE
CONT LENSES IF WORN. SKIN:WASH THORO W/SOAP & WATER.
REMOVE & WASH CONTAM
CLTHG. INGEST:GIVE WATER/MILK TO DRINK & TELEPHONE FOR MED
ADVICE. CONSULT
MED PERS BEFORE INDUCING VOMIT. IF MED ADVICE CANNOT BE
OBTAINED, THEN TAKE
PERS & PROD CNTNR TO NEAREST MED EMER (SUPP DATA)

Precautions for Safe Handling and Use

Steps If Matl Released/Spill: THIS MATERIAL IS NOT
EXPECTED TO PRESENT ANY
ENVIRONMENTAL PROBLEMS OTHER THAN THOSE ASSOCIATED W/OIL
SPILLS. CLEAN UP
SPILLS IMMEDIATELY, OBSERVING PRECAUTIONS IN PROTECTIVE
EQUIPMENT SECTION.
Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.
Waste Disposal Method: PLACE CONTAMINATED MATERIAL IN
DISPOSABLE
CONTAINERS & DISPOSE OF IN A MANNER CONSISTENT W/APPLIC
REGS. CONTACT
LOCAL, STATE & FEDERAL ENVIRONMENTAL OR HEALTH AUTHORITIES
FOR APPROVED
DISPOSAL OF THIS MATERIAL.
Precautions-Handling/Storing: READ ENTIRE DOCUMENT & LABEL
BEFORE USING
THIS PRODUCT. AVOID PROLONGED OR FREQUENTLY REPEATED SKIN
CONTACT W/THIS
MATERIAL.
Other Precautions: DO NOT WELD, HEAT OR DRILL CONTAINER.
RESIDUE MAY
IGNITE W/EXPLOSIVE VIOLENCE IF HEATED SUFFICIENTLY.
CAUTION! DO NOT USE
PRESSURE TO EMPTY DRUM OR DRUM MAY RUPTURE W/EXPLOSIVE
FORCE.

Control Measures

Respiratory Protection: NO SPECIAL RESPIRATORY PROTECTION
IS NORMALLY
REQUIRED. HOWEVER, IF OPERATING CONDITIONS CREATE HIGH
AIRBORNE
CONCENTRATIONS, THE USE OF A NIOSH/MSHA APPROVED
RESPIRATOR IS RECOMMENDED.
Ventilation: USE ADEQUATE VENTILATION TO KEEP AIRBORNE
CONCENTRATIONS OF
THIS MATERIAL BELOW RECOMMENDED EXPOSURE STANDARD.
Protective Gloves: IMPERVIOUS GLOVES (PP N).
Eye Protection: ANSI APPROVED CHEM WORKERS GOGGS (PP N).
Other Protective Equipment: SKIN CONTACT CAN BE MINIMIZED
BY WEARING
PROTECTIVE CLOTHING.
Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

Suppl. Safety & Health Data: EFTS OF OVEREXP:PRACTICALLY
NON-TOX TO
INTERNAL ORGANS IF INHALED/SWALLOWED. THIS PROD CONTAINS
PETRO BASE OILS
WHICH MAY BE REFINED BY VARIOUS PROCESSED INCL SEV SOLV
EXTRACTION, SEV
HYDROCRACKING/SEV HYDROTREATING. FIRST AID PROC:TREATMENT
CENTER OR
HOSPITAL.

Transportation Data

Disposal Data

Label Data

Label Required: YES
Technical Review Date: 09NOV94
Label Date: 08NOV94
Label Status: G
Common Name: ULTRA-DUTY GREASE EP NLGI 2, CPS238011
Chronic Hazard: NO
Signal Word: CAUTION!
Acute Health Hazard-Slight: X
Contact Hazard-Slight: X
Fire Hazard-None: X
Reactivity Hazard-None: X
Special Hazard Precautions: ACUTE & CHRONIC:NONE LISTED BY
MANUFACTURER.
Protect Eye: Y
Protect Skin: Y
Protect Respiratory: Y
Label Name: CHEVRON
Label P.O. Box: 4054
Label City: RICHMOND
Label State: CA
Label Zip Code: 94808
Label Country: US
Label Emergency Number: 800-457-2022

MIC 2177
Prof# 2177

EPAHO103001877

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/24/2007**

Dear **Bert Atkinson or Jim White**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2177

Generator: MIC
Address: 1801 Industrial
Brenham, TX 77833

Waste Information

Name of Waste: EDM Filters
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Filters are used to remove anode debris from the coolant of EDM Machines during EDM machining
Color: brown/black **Odor:** none **pH:** neutral
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
Level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	MIC Group		
Address:	1801 Industrial Blvd.		
City, State, Zip:	Brenham, TX 77833		
Contact:	Jim White	**Title:**	Sr. Mfg. Engineer
Phone No:	979-836-4481	**Fax No:**	979-830-0402
24/hr Phone:	CES-713-676-1460		
U.S. EPA I.D. No:	NA		
State I.D.	86944	**SIC Code:**	NA

SECTION 2: Billing Information – ☒ Same as Above

Company:			
Address:			
City, State, Zip:			
Contact:		**Title:**	
Phone No:		**Fax No:**	

SECTION 3: General Description of the Waste

Name of Waste: EDM Filters
Detailed Description of Process Generating Waste: Filters are used to remove anode debris from the coolant of EDM Machines during EDM machining.

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: Brown/Black **Odor:** none

Specific Gravity (water=1): 1.5 **Density:** 12 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 2 **Other:** ____
Texas State Waste Code No: NA-Recyclable Material
Proper U.S. DOT Shipping Name: Non-RCRA; Non-DOT Regulated Material
Class: NA **UN/NA:** NA **PG:** NA **RQ:** NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
none	neutral	0mg/l	0mg/l	100%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	>1500mg/l	0mg/l	0mg/l	0mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Metal Filters with paper inserts	80-90	%
Metal Fines and carbon	10-20	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Analysis

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ____
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: ____
Corrosivity: ____
Ignitability: ____

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: James M White **Date:** 04/24/07

Printed Name/Title: Jim White

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robbah Thangurah Additional Information: 35.00/DM 95.00/yd/BA

Date: 4-24-07 Approved Rejected REC

Approval Number: 2177

EPAHO103001880

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

Mercury Environmental Services, Inc.

6913 HWY 225, Deer Park, TX 77536
Phone: (281)-476-4534 Fax: (281)-476-4406

CES Environmental Services
4904 Griggs Rd
Houston, TX 77021

Phone: (713) 676-1460
Fax: (713) 676-1676

Attn: **Gary Brauckman**

- CERTIFICATE OF RESULTS -

MES Lab#: 7040472
Client Sample ID: Filter Solids EDM
Extended ID: MIC Group Filter Solids

Sample Collect Date: 4/12/2007 @ 9:00:00 AM
Sample Receipt Date: 4/13/2007 @ 4:32:00 PM
Sample Type: Grab

Test Group / Method

Total Petroleum Hydrocarbons Solid Method: TNRCC 1005	MDL	Result	Units	Analyst: HDG Date / Time
C6 - C12 Hydrocarbons	4	< 4	mg/kg	4/22/2007 / 10:22 AM
>C12 - C28 Hydrocarbons	8	**1610**	**mg/kg**	4/22/2007 / 10:22 AM
>C28 - C36 Hydrocarbons	8	**98**	**mg/kg**	4/22/2007 / 10:22 AM
Total TPH	20	**1710**	**mg/kg**	4/22/2007 / 10:22 AM

Reactivity, Recoverable Hydrogen Cyanide Method: 7.3.3.2	MDL	Result	Units	Analyst: CL Date / Time
Hydrogen Cyanide	0.25	< 0.25	mg/kg	4/16/2007 / 3:01 PM

Reactivity, Recoverable Hydrogen Sulfide Method: 7.3.4.2	MDL	Result	Units	Analyst: CL Date / Time
Hydrogen Sulfide	0.25	< 0.25	mg/kg	4/16/2007 / 3:01 PM

Corrosivity: pH Method: SW-846 9045	MDL	Result	Units	Analyst: CL Date / Time
pH		**7.30**		4/16/2007 / 9:50 AM

Ignitability Method: SW-846 1010	MDL	Result	Units	Analyst: DEB Date / Time
Flashpoint		**>150**	**deg F**	4/16/2007 / 11:10 AM

TCLP Metals (11) Method: SW-846 6010B	MDL	RL	Result	Units	Analyst: HDGIL Date / Time
Arsenic	0.014	5	< 0.014	mg/L	4/17/2007 / 10:31 PM
Barium	0.0005	100	**0.141**	**mg/L**	4/17/2007 / 10:31 PM
Cadmium	0.002	1	< 0.002	mg/L	4/17/2007 / 10:31 PM
Chromium	0.002	5	< 0.002	mg/L	4/17/2007 / 10:31 PM
Lead	0.005	5	< 0.005	mg/L	4/17/2007 / 10:31 PM
Selenium	0.024	1	< 0.024	mg/L	4/17/2007 / 10:31 PM

EPAHO103001883

- CERTIFICATE OF RESULTS -

MES Lab#: 7040472

Client Sample ID: Filter Solids EDM
Extended ID: MIC Group Filter Solids

Sample Collect Date: 4/12/2007 @ 9:00:00 AM **Sample Type:** Grab
Sample Receipt Date: 4/13/2007 @ 4:32:00 PM

Silver	0.002	5	< 0.002	mg/L	4/17/2007 /	10:31 PM

TCLP Mercury Method: SW-846 7470A	MDL	RL	Result	Units	Analyst: AM Date / Time	
Mercury	0.0002	0.2	< 0.0002	mg/L	4/14/2007 /	6:00 PM

Flags: H: Exceeds "High Limit" L: Below "Low Limit" RL=regulatory limit

Monday, April 23, 2007

Holland D. Gilmore, Laboratory Director **Date**

EPAHO103001884

7040472

MERCURY ENVIRONMENTAL SERVICES
QA/QC REPORT

ANALYTES	METHOD TPH1005	MB mg/kg	CCV %REC	MS %REC	MSD %REC
C6-C12		< 4	90.5	101.6	105.0
C12-C28		< 8	101.4	116.1	124.3

ANALYTE	MB mg/L	LCS %REC	LCSD %REC	RPD	CCB mg/L	CCV %REC	MS %REC	MSD %REC	RPD
Arsenic	< 0.002	90	81	9.9	< 0.002	97	58.4	59.0	0.92
Barium	< 0.002	83.3	88	5.26	< 0.002	101	60.5	60.4	0.2
Cadmium	< 0.001	88.2	87.5	0.80	< 0.001	98	62.0	63.0	1.6
Chromium	< 0.001	85	84	1.439	< 0.001	96	66.8	67.3	0.7
Lead	< 0.002	83.2	82.9	0.27	< 0.002	97	61.0	61.3	0.5
Mercury	< 0.0002	101.0	97.5	3.53	< 0.0002	102.0			
Selenium	< 0.024	66.4	80.1	18.8	< 0.024	99	56.4	59.3	5.0
Silver	< 0.001	94	92	2.809	< 0.001	97	66.1	63.3	4.33

ANALYTE	STD
Flashpoint	82°F

ANALYTE	BUFFER 7.0	ORIG	DUP	RPD
pH	7.0	7.30	7.33	0.41

ANALYTE	ORIG mg/kg	DUP mg/kg	RPD
Reactivity as Hydrogen Sulfide	< 0.25	< 0.25	0.00

ANALYTE	ORIG mg/kg	DUP mg/kg	RPD	STD %REC
Reactivity as Hydrogen Cyanide	< 0.25	< 0.25	0.00	113

Key to QA Abbreviations

MS=Matrix Spike
MSD=Matrix Spike Duplicate
RPD=Relative Percent Deviation
MB=Method Blank
LCS=Laboratory Control Standard
CCV=Continuing Calibration Verification
CCB=Continuing Calibration Blank
Rec=Percent Recovery

Signature: _____

Holland D. Gilmore / Laboratory Director

April 23, 2007

MES - CHAIN OF CUSTODY

1-800-771-4MES
(281) 476-4534
Mercury Environmental Services
6913 Hwy. 225 • Deer Park, TX 77536
Fax (281)-476-4406

1 COMPANY NAME: (BILL TO:) CES Environmental
COMPANY ADDRESS:
CITY STATE ZIP
CONTACT PERSON'S NAME: Gary Brauchman
CONTACT PERSON'S PHONE: 713-412-5737 FAX #:

2 YOUR PROJECT NO.: MIC-Group | YOUR P.O. #: GaryMIC | YOUR PROJECT NAME: MIC Group Filter Solids
PROJECT ADDRESS:

4 PARAMETERS FOR ANALYSIS

5 REMARKS
TURNAROUND TIME: STP
DETECTION LIMITS SPECIAL LIMITS REQUIRED: Yes / No
Please circle one, if Yes, please describe below or include separate sheet detailing requirements.

3

YOUR SAMPLE DESCRIPTION	GRAB/COMP.	DATE	TIME	MATRIX	TPH ✓	TCLP (8) ✓	RCI	NUMBER OF CONTAINERS	PRESERVATIONS
Filter Solids EDM	G	4-12-07	9:00A	S				1	

IF TPH > 500 Run (8) metals
IF < 1500 Run (11) metals
ONLY

6 PERSON TAKING SAMPLE SIGNATURE (a. - Print Name & b. - Sign.): a. Gary Brauchman b.
RELINQUISHED BY: (Signature) DATE 4/13/07 TIME 15:35
RECEIVED BY: (Signature) Allison Diamond

7 RELINQUISHED BY: (Signature) Allison Diamond DATE 4/13/07 TIME 16:32 RECEIVED BY: (Signature) Mandy Dow
RELINQUISHED BY: (Signature) DATE TIME
RECEIVED BY: (Signature)
METHOD OF PAYMENT
SHIPPED BY: (Signature)
COURIER (Signature)
RECEIVED FOR MES BY: (Signature) Mandy Dow DATE 4/13 TIME 1632

8 Sample Remainder Disposal
☐ Return Sample Remainder To Client Via
☒ Request Lab To Dispose Of All Sample Remainders
(Signature) (Date) 4-13-07

Form # MES - CCRI

WHITE & CANARY – Shipped with Sample PINK – Retained by Customer WHITE – Returned with Report

PAGE 04 MES -2814764406 04/23/2007 12:13

EPAHO103001886

JC
JR

CES Environmental Services, Inc.

4904 Griggs Road
Houston, TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1676

Waste Profile Re-Certification Form

CES Waste Approval #: **HOU-2177** ✓

Customer: **MIC**

Waste Generator: **MIC**

Waste Stream Name: **EDM Filters**

Expiration Date: **4/24/2009**

As per our waste analysis plan, CES Environmental Services, Inc. requires recertification of all approved waste profiles on an annual basis. The purpose of this form is to confirm that no changes have been made in the generation process of the aforementioned waste stream and that the waste stream remains classified as non-hazardous as per 40 CFR 261.3.

Generator hereby certifies that the components in the aforementioned waste stream and the process generating this waste stream remain the same as when issued the aforementioned CES Waste Approval Number: (Check Appropriate Box)

(No changes, please recertify)

Please send new profile as waste stream has changed.

MIC Group Inc
Customer Name

Ricky Abernathy
Signature

EH&S Engineer
Company / Title

7/23/09
Date

Analysis is NOT required for recertification.

The following analysis is required for recertification. Please sumbit results of the following tests.

TCLP Metals
TCLP Volatiles
TCLP Semi-volatiles
Reactivity
Corrosivity
Ignitability

GATX (Hearne) 2178
Prof # 2178

EPAHO103001888

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/26/2007**

Dear **Ricardo Salias**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2178

Generator: GATX (Hearne)
Address: 1401 W. Brown St.
Hearne, TX 77859

Waste Information

Name of Waste: Recyclable Fuels
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Removal of materials from railcars prior to cleaing
Color: Varies **Odor:** Hydrocarbon **pH:** 3-11
Physical State:
Incompatibilities: Oxidizers
Safety Related Data/Special Handling:
Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company :	GATX (Hearne)		
Address :	1401 W. Brown St. PO Box 969		
City, State, Zip :	Hearne TX 77859		
Contact :	Ricardo Salias	**Title :**	
Phone No :	(979) 279-3481	**Fax :**	(979) 279-3020
24 / HR Phone :			
U.S EPA I.D No :	TXD000835207		
State I.D :	32643	**SIC Code**	

SECTION 2: Billing Information

Company :	GATX (Hearne)		
Address :	1401 W. Brown St. PO Box 969		
City, State, Zip :	Hearne TX 77859		
Contact :	Ricardo Salias	**Title :**	
Phone No :	(979) 279-3481	**Fax :**	(979) 279-3020

SECTION 3: General Description of the Waste

Name of Waste : Recyclable Fuels

Detailed Description of Process Generating Waste:

Removal of materials from railcars prior to cleaing

Physical State : ☑ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color : Varies **Odor :** Hydrocarbon

Specific Gravity (Water=1) : .95 **Density :** 7.5 lbs / gal

Layers : ☑ Single-Phas ☐ Multi-Phase

Container Type : ☑ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Container Size :

Number Of Units : 10

Texas State Waste Code No : Recycle

Proper U.S. State Waste Code No : Flammable Liquids, n.o.s., UN 1993, PG III

Class : 3 **UN/NA :** 3 **PG :** 3 **RQ :** 3

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
<120	3-11	<25 mg/l	<25 mg/l	0-1 %
Oil and Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
>1500 mg/l	NA mg/l	NA mg/l	NA mg/l	NA mg/l

EPAHO103001890

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Alcohols (ethanol, butanol, methanol, propanol)	90-95	%
Other hydrocarbons	0-10	%
Water	0-10	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generators knowledge

TCLP Metals : X
TCLP Volatilies : X
TCLP Semi-Volatiles : X
Reactivity : X
Corrosivity : X
Ignitability : X

SECTION 9: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data. I hereby cerity that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature : N/A **Date :**

Printed Name / Title : N/A per Matt Bowman (product) /

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer : Robert R Haugland

Date : 4/26/2007 **Status :** Approved Rejected

Approval Number : 2178

Special Pricing / Analytical Info:

RECYCLE
$.75/dm ; $200 Trans

Recommended Treatment:
Mix with CES Fuel.

EPAHO103001891

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge ? ☐ **YES** ☑ **NO**

If 'YES', complete this section

PLEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE

Matals Subcategory: ***Subpart A***

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phospha
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: ***Subpart B***

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory ***Subpart C***

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bering wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001892

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcatego

☐ Oils Subcatego

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001893

Optimized Process Design 2179

Profile # 2179

EPAHQ1030001894

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/27/2007**

Dear **Kevin White**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2179

Generator: Optimized Process Design
Address: 25610 Clay Road
Katy, TX 77493

Waste Information

Name of Waste: GAS/SPEC SS-3 FF SOLVENT
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Unused product
Color: light yellow **Odor:** amine **pH:** 3-11
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

04Apr. 25. 2007 12:31PM
Apr. 23. 2007 10:30AM
281-371-01-2

OPD

No. 0075 P. 2
No. 2438 P. 2

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Optimized Process Design
Address: 25610 Clay Rd.
City, State, Zip: Katy Tx. 77492
Contact: Eduardo Robles Title: Safety Mgr.
Phone No: 281-371-7580 Fax No:
24/hr Phone:
U.S. EPA I.D. No: TX CESQ
State I.D. CESQ SIC Code: NA

SECTION 2: Billing Information – ☐ Same as Above

Company: Select Environmental
Address: 223 McCarty Dr.
City, State, Zip: Hou. Tx. 77029
Contact: Helen White Title: Sales
Phone No: 281-960-3967 Fax No:

SECTION 3: General Description of the Waste

Name of Waste: Gas/SPEC SS-3 FF Solvent
Detailed Description of Process Generating Waste: unused product

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Light yellow Odor: Amine

Specific Gravity (water=1): 1.04 - 1.06 Density: 8.9 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 gal.

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 2 Other:
Texas State Waste Code No: Recycle
Proper U.S. DOT Shipping Name: Non Dot regulated
Class: NA UN/NA: na PG: na RQ: na

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200	3-11	NA mg/l	NA mg/l	0 %

Oil&Grease	TOC	Zinc	Copper	Nickel
NA mg/l	NA mg/l	NA mg/l	NA mg/l	NA mg/l

EPAHO103001896

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	Concentration	Units
The waste consists of the following materials	Ranges are acceptable	or %
Gas/Spec SS-3 FF Solvent		100

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
standard PPG

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ✓
TCLP Volatiles: ✓
TCLP Semi-Volatiles: ✓
Reactivity: ✓
Corrosivity: ✓
Ignitability: ✓

SECTION 9: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Eddie Robles Date: ____

Printed Name/Title: Eddie Robles

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Rakhee R Thangwa Additional Information: REC

Date: 4-27-07 Approved Rejected $65/dm

Approval Number: 2179 $68/Tbs Trans

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001898

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001899

(b) (4)

[redacted]

(b) (4)

[redacted]

(b) (4)

[redacted]

(b) (4)

[redacted]

(b) (4)

[redacted]

(b) (4)

[redacted]

(b) (4)

[redacted]

Commercial Metals 2180
Ref # 2180

EPAHO103001907

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/26/2007**

Dear **James Wilson**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2180

Generator: Commercial Metals C/O Milstead Environmental
Address: 5250 College
Beaumont, TX 77720

Waste Information

Name of Waste: Nonhazardous waste sludge
TCEQ Waste Code #: n/a,
Container Type:
Detailed Description of Process Generating Waste:
Sludge generated from jet rodding a storm sewer after an on site fire at a metals recycling facility.
Color: varies **Odor:** slight hydrocarbon **pH:** 4-10
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
level D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company:	Commercial Metals Care of Milstead Environmental		
Address:	5250 College		
City, State, Zip:	Beaumont, TX 77720		
Contact:	James Wilson (Agent)	Title:	Agent for Commercial Metals
Phone No:	713-303-5109	Fax No:	409-769-4203
24/hr Phone:	713-303-5109		
U.S. EPA I.D. No:	Non-Industrial		
State I.D.	Non-Industrial	SIC Code:	

SECTION 2: Billing Information – ☐ Same as Above

Company:	Milstead Environmental		
Address:	29707 W. Hawthorne		
City, State, Zip:	Spring, TX 77386		
Contact:	Sandy/ James Wilson (Beaumont)	Title:	Opperations Manager
Phone No:	713-303-5109	Fax No:	281-419-4402

SECTION 3: General Description of the Waste

Name of Waste: Non-Hazardous Waste Sludge
Detailed Description of Process Generating Waste: Sludge generated form jet rodding a storm sewer after an on site fire at a metals recycling facility.

Physical State: ☒ Liquid ☒ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Varies Odor: Slight Hydrocarbon

Specific Gravity (water=1): 1-1.2 Density: 8-9 lbs/gal

Layers: ☐ Single-phase ☒ Multi-phase

Container Type:	☒	Drum	☐ Tote	☐	Truck	☐	Other (explain)
Container Size:		55 G					

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 1-50 Other:
Texas State Waste Code No: N/A- Non-Industrial
Proper U.S. DOT Shipping Name: Non-RCA. Non DOT Regulated Waste Sludge
Class: Na UN/NA: Na PG: Na RQ: Na

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>140	4-10	0mg/l	0mg/l	40-75%

Oil&Grease	TOC	Zinc	Copper	Nickel
>1500mg/l	NAmg/l	Namg/l	Namg/l	Namg/l

EPAHQ103001909

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	25-60	%
Sludge (See Analysis)	40-75	%
Debris	0-5	%
Oil and Grease (See TPH analysis)	2-5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Totals, TCLP Metals

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ___
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☒ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Brad McCook **Date:** 4/26/07

Printed Name/Title: Brandon McCook Safety/Environmental Coordinator

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robert Thompson

Date: 4-26-07 Approved Rejected

Approval Number: 2180

Process Facility Information:

Class I $45/ton
OSL $67/hr Trans
FSC 18%

EPAHQ103001910

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If "Yes", complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001911

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001912

LABORATORY TEST RESULTS

Job ID : 88953 Date 4/5/2007

Client Name: Milstead Environmental Services Attn: Roger Fleming
Project ID: 2-7-0021/ 5250 College

Client Sample ID: Storm Trooper Sludge
Date Collected: 03/28/07
Time Collected: 16:00
Other Information:

Job Sample ID: 88953.01
Sample Matrix Sludge

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Metals								
	Arsenic	3.96	mg/Kg	1	0.500			04/04/07 12:52	SC
	Barium	1068	mg/Kg	50	25			04/04/07 12:52	SC
	Cadmium	7.66	mg/Kg	1	0.500			04/04/07 12:52	SC
	Chromium	90.9	mg/Kg	1	0.500			04/04/07 12:52	SC
	Lead	625.1	mg/Kg	50	25			04/04/07 12:52	SC
	Selenium	BRL	mg/Kg	1	0.500			04/04/07 12:52	SC
	Silver	BRL	mg/Kg	1	0.500			04/04/07 12:52	SC
SW-846 7470A	Total Metals - Mercury								
	Mercury	0.39	mg/Kg	2.00	0.08			04/04/07 12:52	SC
SW-846 8021B	Purgeable Aromatics								
	Benzene	BRL	mg/Kg	10	0.1		D1	04/02/07 14:22	SS
	Toluene	BRL	mg/Kg	10	0.1			04/02/07 14:22	SS
	Ethylbenzene	BRL	mg/Kg	10	0.1			04/02/07 14:22	SS
	Xylenes	BRL	mg/Kg	10	0.300			04/02/07 14:22	SS
	Trifluorotoluene(surr)	104	%	10	75-125			04/02/07 14:22	SS
SW-846 8082	Polychlorinated Biphenyls								
	Aroclor 1016	BRL	ug/Kg	1	167			04/02/07 05:38	ML
	Aroclor 1221	BRL	ug/Kg	1	167			04/02/07 05:38	ML
	Aroclor 1232	BRL	ug/Kg	1	167			04/02/07 05:38	ML
	Aroclor 1242	1236.8	ug/Kg	1	167			04/02/07 05:38	ML
	Aroclor 1248	BRL	ug/Kg	1	167			04/02/07 05:38	ML
	Aroclor 1254	BRL	ug/Kg	1	167			04/02/07 05:38	ML
	Aroclor 1260	BRL	ug/Kg	1	167			04/02/07 05:38	ML
	Decachlorobiphenyl(surr)	35	%	1	27-105			04/02/07 05:38	ML
	Tetrachloro-m-xylene(surr)	24	%	1	12-106			04/02/07 05:38	ML
TX 1005	Total Petroleum Hydrocarbons								
	C6-C12	BRL	mg/Kg	25	285			03/31/07 17:06	HK
	>C12-C28	18015	mg/Kg	25	333			03/31/07 17:06	HK
	>C28-C35	41640	mg/Kg	25	670			03/31/07 17:06	HK
	Total C6-C35	59655	mg/Kg	25				03/31/07 17:06	HK
	Chlorooctadecane(surr)	N/A	%	25	50-149		S4	03/31/07 17:06	HK

EPAHO103001913

LABORATORY TEST RESULTS

Job ID : 88953

Date 4/12/2007

Client Name: Milstead Environmental Services
Attn: Roger Fleming
Project ID: 2-7-0021/ 5250 College

Client Sample ID: Storm Trooper Sludge
Date Collected: 03/28/07
Time Collected: 16:00
Other Information:

Job Sample ID: 88953.01
Sample Matrix Sludge

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	TCLP Metals								
	Arsenic	BRL	mg/L	1	0.1	5.0		04/12/07 15:07	SC
	Barium	3.00	mg/L	1	0.1	100.0		04/12/07 15:07	SC
	Cadmium	BRL	mg/L	1	0.1	1.0		04/12/07 15:07	SC
	Chromium	BRL	mg/L	1	0.1	5.0		04/12/07 15:07	SC
	Lead	BRL	mg/L	1	0.1	5.0		04/12/07 15:07	SC
	Selenium	BRL	mg/L	1	0.500	1.0		04/12/07 15:07	SC
	Silver	BRL	mg/L	1	0.1	5.0		04/12/07 15:07	SC
SW-846 7470A	TCLP Metals, Mercury								
	Mercury	BRL	mg/L	1	0.002	0.2		04/10/07 15:37	RB

Additional Analysis to report dated 04/05/2007.

CROSS-REFERENCE FIELD SAMPLE AND LABORATORY IDENTIFICATIONS

A&B Job ID : 88953 4/12/2007

Client Project :
2-7-0021/ 5250 College

Field Identification	Laboratory Identification	7470 A	6010 C	
Storm Trooper Sludge	88953.01	X	X	
Roll Box #286oz	88953.02	X	X	

EPAHO103001915

QUALITY CONTROL CERTIFICATE

Job ID : 88953 **Date :** 4/5/2007

Analysis : Total Metals **Method :** SW-846 6010C **Reporting Units :** mg/Kg

QC Batch ID : Qb07040221 **Created Date :** 04/04/07 **Created By :** Scuello

Samples in This QC Batch : 88953.01,02

Digestion : PB07040211 **Prep Method :** SW-846 3050B **Prep Date :** 04/02/07 **Prep By :** Scuello

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit	Qual
Arsenic	7440-38-2	BRL	mg/Kg	1	0.5	
Barium	7440-39-3	BRL	mg/Kg	1	0.5	
Cadmium	7440-43-9	BRL	mg/Kg	1	0.5	
Chromium	7440-47-3	BRL	mg/Kg	1	0.5	
Lead	7439-92-1	BRL	mg/Kg	1	0.5	
Selenium	7782-49-2	BRL	mg/Kg	1	0.5	
Silver	7440-22-4	BRL	mg/Kg	1	0.5	

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Arsenic	25	25.1	100	25	25.0	100	0.39	20	70-130	
Barium	25	25.3	101	25	25.0	100	1.19	20	70-130	
Cadmium	25	25.3	101	25	25.0	100	1.19	20	70-130	
Chromium	25	26.8	107	25	26.5	106	1.13	20	70-130	
Lead	25	24.7	98.8	25	24.5	98	0.81	20	70-130	
Selenium	25	24.3	97.2	25	24.4	97.6	0.41	20	70-130	
Silver	25	27.3	109	25	27.0	108	1.1	20	70-130	

QC Type: MS and MSD
QC Sample ID: 88919.13

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Arsenic	BRL	25	7.01	28	25	4.91	19.6	35.2	20	70-130	M2
Barium	4.03	25	83	316	25	39.6	158	70.8	20	70-130	M1
Cadmium	BRL	25	9.45	37.8	25	6.89	27.6	31.3	20	70-130	M2
Chromium	0.83	25	19.9	76.3	25	13.6	54.4	37.6	20	70-130	M2
Lead	0.43	25	9.77	37.4	25	7.35	29.4	28.3	20	70-130	M2
Selenium	0.90	25	1.13	0.920	25	2.19	8.76	63.9	20	70-130	M2
Silver	BRL	25	3.80	15.2	25	5.14	20.6	30	20	70-130	M2

Refer to the Definition page for terms.

EPAHO103001916

QUALITY CONTROL CERTIFICATE

Job ID : 88953 **Date :** 4/5/2007

Analysis : Total Petroleum Hydrocarbons **Method :** TX 1005 **Reporting Units :** mg/Kg

QC Batch ID : Qb07040307 **Created Date :** 04/02/07 **Created By :** Hkhuc

Samples in This QC Batch : 88953.01,02

Sample Preparation :	PB07040306	**Prep Method :** TX 1005	**Prep Date :** 04/02/07	**Prep By :** Hkhuc
	PB07040419	TX 1005	03/30/07	Hkhuc

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
C6-C12		BRL	mg/Kg	1	11.4		
>C12-C28		BRL	mg/Kg	1	13.3		
>C28-C35		BRL	mg/Kg	1	26.8		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
C6-C12	500	513	103	500	530	106	3.26	25	70-130	
>C12-C28	500	583	117	500	612	122	4.85	25	70-130	
>C28-C35	500	513	103	500	541	108	5.31	25	70-130	

QC Type: MS and MSD
QC Sample ID: 88984.01

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
C6-C12	147	500	665	104					25	70-130	
>C12-C28	449	500	1052	121					25	70-130	
>C28-C35	BRL	500	504	101					25	70-130	

Refer to the Definition page for terms.

EPAHO103001917

QUALITY CONTROL CERTIFICATE

Job ID : 88953 **Date :** 4/5/2007

Analysis : Polychlorinated Biphenyls **Method :** SW-846 8082 **Reporting Units :** ug/Kg

QC Batch ID : Qb07040313 **Created Date :** 04/03/07 **Created By :** Mli

Samples in This QC Batch : 88953.01,02

Extraction : PB07033011 **Prep Method :** SW-846 3545 **Prep Date :** 03/30/07 **Prep By :** Dshen

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Aroclor 1016		BRL	ug/Kg	1	166.67		
Aroclor 1221		BRL	ug/Kg	1	166.67		
Aroclor 1232		BRL	ug/Kg	1	166.67		
Aroclor 1242		BRL	ug/Kg	1	166.67		
Aroclor 1248		BRL	ug/Kg	1	166.67		
Aroclor 1254		BRL	ug/Kg	1	166.67		
Aroclor 1260		BRL	ug/Kg	1	166.67		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Aroclor 1016	333.33	326.042	97.8	333.33	326.785	98	0.22	25	50-130	
Aroclor 1260	333.33	344.012	103	333.33	345.600	104	0.46	25	50-130	

Refer to the Definition page for terms.

EPAHO103001918

QUALITY CONTROL CERTIFICATE

Job ID : 88953 **Date :** 4/5/2007

Analysis : Total Metals - Mercury **Method :** SW-846 7470A **Reporting Units :** mg/Kg

QC Batch ID : Qb07040322 **Created Date :** 04/02/07 **Created By :** Rbairamadgi

Samples in This QC Batch : 88953.01,02

Digestion : PB07040220 **Prep Method :** SW-846 7470A **Prep Date :** 04/02/07 **Prep By :** Rbairamadgi

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Mercury	7439-97-6	BRL	mg/Kg	1	0.04		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Mercury	0.1	0.1021	102						80-120	

QC Type: MS and MSD
QC Sample ID: 88945.13

Parameter	Sample Result	MS Spk Added	MS Result	MS % Rec	MSD Spk Added	MSD Result	MSD % Rec	RPD	RPD CtrlLimit	%Rec CtrlLimit	Qual
Mercury	BRL	0.1	0.1026	103	0.1	0.0952	95.2	7.48	20	80-120	

Refer to the Definition page for terms.

EPAHO103001919

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

Job ID : 88953

Date: 4/5/2007

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	surr	Surrogate
MS	Matrix Spike	T	Time
MSD	Matrix Spike Duplicate	TNTC	Too numerous to count
MW	Molecular Weight		

Qualifier Definition	
D1	Sample required dilution due to matrix effects.
M1	MS/MSD recovery is high, LCS/LCSD recovery is acceptable.
M2	MS/MSD recovery is low, LCS/LCSD recovery is acceptable.
S4	Surrogate not available due to dilution of sample extract for quantification.

EPAHO103001920

2181 Weingarten Realty Investors
Prof # 2181

EPAHO103001921

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/27/2007**

Dear **Zac or Dave**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2181

Generator: Weingarten Realty Investors
Address: 1948 W. Gray
Houston, TX

Waste Information

Name of Waste: Contaminated water
TCEQ Waste Code #: CESQ1191
Container Type:
Detailed Description of Process Generating Waste:
Water from installing sampling wells at dry cleaners - well flush
Color: dark **Odor:** none **pH:** 7-11
Physical State:
Incompatibilities: na
Safety Related Data/Special Handling:
na

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

Attn Dan
ISPGS

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Weingarten Realty Investors
Address: 1948 W. Gray
City, State, Zip: Houston, TX
Contact: David Buchanan Title:
Phone No: 713-899-8158 Fax No:
24/hr Phone:
U.S. EPA I.D. No: N/A
State I.D. N/A SIC Code:

SECTION 2: Billing Information – ☐ Same as Above

Company: CNB Services
Address: 10707 Honea Egypt
City, State, Zip: Montgomery, TX 77316
Contact: Traci Shed Title: Office Mgr.
Phone No: 936-483-3062 Fax No: 936 483 3074

SECTION 3: General Description of the Waste

Name of Waste: Contaminated Water
Detailed Description of Process Generating Waste: Water from installing sampling wells at Dry Cleaners. Well flush

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Dark Odor: None

Specific Gravity (water=1): 1 Density: 8 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55gal

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☑ Yearly
Number of Units (containers): 3 Other:
Texas State Waste Code No: CESQ 1191
Proper U.S. DOT Shipping Name: Non-RCRA, Non DOT Regulated Waste Water
Class: — UN/NA: — PG: — RQ: —

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
214°F	7-11	— mg/l	— mg/l	— %

Oil&Grease	TOC	Zinc	Copper	Nickel
— mg/l	— mg/l	— mg/l	— mg/l	— mg/l

EPAHO103001923

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Water	95-100	%
Contaminated Material	1-5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
N/A

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Analytical

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
N/A

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ✓
TCLP Volatiles: ✓
TCLP Semi-Volatiles: ✓
Reactivity: ✓
Corrosivity: ✓
Ignitability: ✓

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☑ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the material tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 4/23/07

Printed Name/Title: Zac McKaughan - President

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: Robbin Lampa

Date: 4-27-07 Approved Rejected

Approval Number: 2181

Additional Information: IL

$65/dm Class 1

$68/Hz Trans

4-26-07

EPAHO103001924

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☒ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☒ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001925

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☒ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001926

SEVERN TRENT STL

ANALYTICAL REPORT

JOB NUMBER: 327745
Project ID: 05 CLEANERS

Prepared For:

Buchanan Environmental Associates
P O BOX 14634
Humble, TX 77347-4634

Attention: David Buchanan

Date: 01/05/2007

Signature

01/05/07
Date

Name: Jodi L. Allen

Title: Project Manager II

E-Mail: jallen@stl-inc.com

Severn Trent Laboratories
6310 Rothway Drive
Houston, TX 77040

PHONE: 713-690-4444

TOTAL NO. OF PAGES 24

(THU)APR 26 2007 5:21/ST. 5:17/No. 6802463218 P 4

FROM

EPAHO103001927

SEVERN TRENT STL

01/05/2007

David Buchanan
Buchanan Environmental Associates
P.O. BOX 14634
Humble, TX 77347-4634

Reference:
Project : US CLEANERS
Project No. : 327745
Date Received : 12/22/2006
STL Job : 327745

Dear David Buchanan:

Enclosed are the analytical results for your project referenced above. The following samples are included in the report.

1. MW-11
2. MW-10
3. TRIP BLANK

All holding times were met for the tests performed on these samples.

Enclosed, please find the Quality Control Summary. All quality control results for the QC batch that are applicable to the sample(s) are acceptable except as noted in the QC batch reports.

The test results in this report meet all NELAP requirements for STL Houston's NELAP accredited parameters. Any exceptions to NELAP requirements will be noted and included in a case narrative as a part of this report.

If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting Severn-Trent Laboratories to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

Sincerely,

Jodi L. Allen
Project Manager

FROM (THU)APR 26 2007 5:21/ST. 5:17/No. 6802468218 P 5

SAMPLE INFORMATION
Date: 01/05/2007

Job Number.: 327745
Customer...: Buchanan Environmental Associates
Attn.....: David Buchanan

Project Number.....: 99007171
Customer Project ID....: US CLEANERS
Project Description....: US Cleaners

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
327745-1	MW-11	Water	12/22/2006	02:22	12/22/2006	16:18
327745-2	MW-10	Water	12/22/2006	03:30	12/22/2006	16:18
327745-3	TRIP BLANK	Water	12/22/2006	00:00	12/22/2006	16:18

FROM (THU)APR 26 2007 5:21/ST. 5:17/No. 6802463218 P 6

EPAHO103001929

(THU) APR 26 2007 5:22/ST. 5:17/No. 6802463218 P 7

LABORATORY TEST RESULTS

Job Number: 327745 Date:01/05/2007

CUSTOMER: Buchanan Environmental Associates PROJECT: US CLEANERS ATTN: David Buchanan

Customer Sample ID: MW-11
Date Sampled.....: 12/22/2006
Time Sampled.....: 02:22
Sample Matrix.....: Water

Laboratory Sample ID: 327745-1
Date Received.....: 12/22/2006
Time Received.....: 16:18

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 8260B	Volatile Organics (25mL purge)											
	Benzene, Water	0.38	U		0.38	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	Bromodichloromethane, Water	0.42	U		0.42	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	Bromoform, Water	0.65	U		0.65	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	Bromomethane, Water	0.21	U		0.21	2.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	Carbon Tetrachloride, Water	0.27	U		0.27	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	Chlorobenzene, Water	0.30	U		0.30	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	Chloroethane, Water	0.59	U		0.59	2.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	Chloroform, Water	0.28	U		0.28	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	Chloromethane, Water	0.47	U		0.47	2.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	Dibromochloromethane, Water	0.32	U		0.32	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	1,1-Dichloroethane, Water	0.44	U		0.44	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	1,2-Dichloroethane, Water	0.47	U		0.47	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	1,1-Dichloroethene, Water	0.33	U		0.33	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	cis-1,2-Dichloroethene, Water	0.38	U		0.38	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	trans-1,2-Dichloroethene, Water	0.31	U		0.31	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	1,2-Dichloropropane, Water	0.39	U		0.39	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	Ethylbenzene, Water	0.37	U		0.37	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	Methylene Chloride, Water	0.56	U		0.56	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	Styrene, Water	0.34	U		0.34	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	1,1,2,2-Tetrachloroethane, Water	0.42	U		0.42	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	Tetrachloroethene, Water	0.42	U		0.42	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	Toluene, Water	0.40	U		0.40	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	1,1,1-Trichloroethane, Water	0.28	U		0.28	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	1,1,2-Trichloroethane, Water	0.62	U		0.62	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	Trichloroethene, Water	0.38	U		0.38	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	Vinyl Chloride, Water	0.34	U		0.34	2.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	Xylenes (total), Water	0.95	U		0.95	3.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	Acetone, Water	0.87	U		0.87	2.0	1.00000	ug/L	169315		01/02/07 2147	zfl

FROM EPAHO1030019 30

(THU) APR 26 2007 5:22/ST. 5:17/No. 6802463218 P 8

LABORATORY TEST RESULTS

Job Number: 327745 Date:01/05/2007

CUSTOMER: Buchanan Environmental Associates PROJECT: US CLEANERS ATTN: David Buchanan

Customer Sample ID: MW-11
Date Sampled.....: 12/22/2006
Time Sampled.....: 02:22
Sample Matrix.....: Water

Laboratory Sample ID: 327745-1
Date Received.....: 12/22/2006
Time Received.....: 16:18

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MEL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Carbon Disulfide, Water	0.47	U		0.47	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	cis-1,3-Dichloropropene, Water	0.42	U		0.42	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	trans-1,3-Dichloropropene, Water	0.40	U		0.40	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	Methyl Ethyl Ketone (2-Butanone), Water	1.08	U		1.08	2.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	2-Hexanone, Water	0.75	U		0.75	2.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	4-Methyl-2-pentanone (MIBK), Water	0.60	U		0.60	2.0	1.00000	ug/L	169315		01/02/07 2147	zfl
	1,2-Dichloroethene (total), Water	0.67	U		0.67	1.0	1.00000	ug/L	169315		01/02/07 2147	zfl

FROM EPAHO103001931

(THU) APR 26 2007 5:22/ST. 5:17/No. 6802463218 P 9

LABORATORY TEST RESULTS

Job Number: 327745 — Date:01/05/2007

CUSTOMER: Buchanan Environmental Associates — PROJECT: US CLEANERS — ATTN: David Buchanan

Customer Sample ID: MW-10
Date Sampled.....: 12/22/2006
Time Sampled.....: 03:30
Sample Matrix.....: Water

Laboratory Sample ID: 327745-2
Date Received.....: 12/22/2006
Time Received.....: 16:18

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 8260B	Volatile Organics (25mL purge)											
	Benzene, Water	0.38	U		0.38	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	Bromodichloromethane, Water	0.42	U		0.42	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	Bromoform, Water	0.65	U		0.65	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	Bromomethane, Water	0.21	U		0.21	2.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	Carbon Tetrachloride, Water	0.27	U		0.27	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	Chlorobenzene, Water	0.30	U		0.30	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	Chloroethane, Water	0.59	U		0.59	2.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	Chloroform, Water	0.28	U		0.28	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	Chloromethane, Water	0.47	U		0.47	2.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	Dibromochloromethane, Water	0.32	U		0.32	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	1,1-Dichloroethane, Water	0.44	U		0.44	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	1,2-Dichloroethane, Water	0.47	U		0.47	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	1,1-Dichloroethene, Water	0.33	U		0.33	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	cis-1,2-Dichloroethene, Water	0.38	U		0.38	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	trans-1,2-Dichloroethene, Water	0.31	U		0.31	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	1,2-Dichloropropane, Water	0.39	U		0.39	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	Ethylbenzene, Water	0.37	U		0.37	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	Methylene Chloride, Water	0.56	U		0.56	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	Styrene, Water	0.34	U		0.34	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	1,1,2,2-Tetrachloroethane, Water	0.42	U		0.42	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	Tetrachloroethene, Water	18.2			0.42	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	Toluene, Water	0.40	U		0.40	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	1,1,1-Trichloroethane, Water	0.28	U		0.28	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	1,1,2-Trichloroethane, Water	0.62	U		0.62	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	Trichloroethene, Water	0.38	U		0.38	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	Vinyl Chloride, Water	0.34	U		0.34	2.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	Xylenes (total), Water	0.95	U		0.95	3.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	Acetone, Water	0.87	U		0.87	2.0	1.00000	ug/L	169315		01/02/07 2217	zfl

FROM EPAHO103001932

(THU) APR 26 2007 5:22/ST. 5:17/No. 6802463218 P 10

LABORATORY TEST RESULTS

Job Number: 327745 — Date:01/05/2007

CUSTOMER: Buchanan Environmental Associates — PROJECT: US CLEANERS — ATTN: David Buchanan

Customer Sample ID: MW-10
Date Sampled.....: 12/22/2006
Time Sampled.....: 03:30
Sample Matrix.....: Water

Laboratory Sample ID: 327745-2
Date Received.....: 12/22/2006
Time Received.....: 16:19

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Carbon Disulfide, Water	0.47	U		0.47	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	cis-1,3-Dichloropropene, Water	0.42	U		0.42	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	trans-1,3-Dichloropropene, Water	0.40	U		0.40	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	Methyl Ethyl Ketone (2-Butanone), Water	1.08	U		1.08	2.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	2-Hexanone, Water	0.75	U		0.75	2.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	4-Methyl-2-pentanone (MIBK), Water	0.60	U		0.60	2.0	1.00000	ug/L	169315		01/02/07 2217	zfl
	1,2-Dichloroethene (total), Water	0.67	U		0.67	1.0	1.00000	ug/L	169315		01/02/07 2217	zfl

FROM EPAHO103001933

(THU) APR 26 2007 5:22/ST. 5:17/No. 6802463218 P 12

LABORATORY TEST RESULTS

Job Number: 327745

Date:01/05/2007

CUSTOMER: Buchanan Environmental Associates

PROJECT: US CLEANERS

ATTN: David Buchanan

Customer Sample ID: TRIP BLANK
Date Sampled.....: 12/22/2006
Time Sampled.....: 00:00
Sample Matrix.....: Water

Laboratory Sample ID: 327745-3
Date Received.....: 12/22/2006
Time Received.....: 16:18

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q	FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
	Carbon Disulfide, Water	0.47	U		0.47	1.0	1.00000	ug/L	169315		01/03/07 1917	zfl
	cis-1,3-Dichloropropene, Water	0.42	U		0.42	1.0	1.00000	ug/L	169315		01/03/07 1917	zfl
	trans-1,3-Dichloropropene, Water	0.40	U		0.40	1.0	1.00000	ug/L	169315		01/03/07 1917	zfl
	Methyl Ethyl Ketone (2-Butanone), Water	1.08	U		1.08	2.0	1.00000	ug/L	169315		01/03/07 1917	zfl
	2-Hexanone, Water	0.75	U		0.75	2.0	1.00000	ug/L	169315		01/03/07 1917	zfl
	4-Methyl-2-pentanone (MIBK), Water	0.60	U		0.60	2.0	1.00000	ug/L	169315		01/03/07 1917	zfl
	1,2-Dichloroethene (total), Water	0.67	U		0.67	1.0	1.00000	ug/L	169315		01/03/07 1917	zfl

FROM EPAHO103001934

QUALITY CONTROL RESULTS

Job Number.: 327745 — Report Date.: 01/05/2007

CUSTOMER: Buchanan Environmental Associates — PROJECT: US CLEANERS — ATTN: David Buchanan

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time

Test Method.....: SW-846 8260B — Units.....: ug/L — Analyst...: zfl
Method Description.: Volatile Organics (25mL purge) — Batch(s)...: 169315

LCS	Laboratory Control Sample	VS122606M			01/02/2007	1612

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	10.2392		10.000000	ND	102.4		58-150	
Bromodichloromethane, Water	10.0210		10.000000	ND	100.2		58-136	
Bromoform, Water	10.7890		10.000000	ND	107.9		64-156	
Bromomethane, Water	12.3509		10.000000	ND	123.5		48-161	
Carbon Tetrachloride, Water	10.4714		10.000000	ND	104.7		62-154	
Chlorobenzene, Water	10.5710		10.000000	ND	105.7		58-152	
Chloroethane, Water	11.3195		10.000000	ND	113.2		43-170	
Chloroform, Water	10.7161		10.000000	ND	107.2		58-154	
Chloromethane, Water	10.2041		10.000000	ND	102.0		31-161	
Dibromochloromethane, Water	10.4174		10.000000	ND	104.2		65-149	
1,1-Dichloroethane, Water	10.5575		10.000000	ND	105.6		64-132	
1,2-Dichloroethane, Water	10.0172		10.000000	ND	100.2		69-131	
1,1-Dichloroethene, Water	10.7184		10.000000	ND	107.2		53-128	
cis-1,2-Dichloroethene, Water	10.1404		10.000000	ND	101.4		60-145	
trans-1,2-Dichloroethene, Water	10.1510		10.000000	ND	101.5		60-147	
1,2-Dichloropropane, Water	10.0773		10.000000	ND	100.8		62-128	
Ethylbenzene, Water	10.8804		10.000000	ND	108.8		70-122	
Methylene Chloride, Water	10.7092		10.000000	ND	107.1		53-138	
Styrene, Water	11.2919		10.000000	ND	112.9		68-126	
1,1,2,2-Tetrachloroethane, Water	11.4360		10.000000	ND	114.4		51-151	
Tetrachloroethene, Water	10.2378		10.000000	ND	102.4		52-145	
Toluene, Water	10.7373		10.000000	ND	107.4		56-149	
1,1,1-Trichloroethane, Water	10.4183		10.000000	ND	104.2		61-141	
1,1,2-Trichloroethane, Water	10.3756		10.000000	ND	103.8		66-129	
Trichloroethene, Water	10.0384		10.000000	ND	100.4		58-153	
Vinyl Chloride, Water	11.0653		10.000000	ND	110.7		44-142	
Xylenes (total), Water	33.2311		30.000000	ND	110.8		41-152	
Acetone, Water	7.86431		10.000000	ND	78.6		38-188	
Carbon Disulfide, Water	10.6549		10.000000	ND	106.5		56-163	
cis-1,3-Dichloropropene, Water	11.2385		10.000000	ND	112.4		49-135	
trans-1,3-Dichloropropene, Water	11.2402		10.000000	ND	112.4		54-155	
Methyl Ethyl Ketone (2-Butanone), Water	10.7824		10.000000	ND	107.8		45-188	
2-Hexanone, Water	10.3149		10.000000	ND	103.1		50-158	
4-Methyl-2-pentanone (MIBK), Water	10.6166		10.000000	ND	106.2		54-151	
1,2-Dichloroethene (total), Water	20.2913		20.000000	ND	101.5		60-140	

LCS	Laboratory Control Sample	VS122606M			01/03/2007	1211

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	10.1153		10.000000	ND	101.2		58-150	
Bromodichloromethane, Water	10.4750		10.000000	ND	104.8		58-136	
Bromoform, Water	10.7006		10.000000	ND	107.0		64-156	
Bromomethane, Water	12.0442		10.000000	ND	120.4		48-161	
Carbon Tetrachloride, Water	10.4590		10.000000	ND	104.6		62-154	
Chlorobenzene, Water	10.3150		10.000000	ND	103.2		58-152	
Chloroethane, Water	10.6763		10.000000	ND	106.8		43-170	
Chloroform, Water	10.2007		10.000000	ND	102.0		58-154	
Chloromethane, Water	10.3188		10.000000	ND	103.2		31-161	

* R=% REC, R=RPD, A=ABS Diff., D=% Diff.

FROM (THU)APR 26 2007 5:22/ST. 5:17/No. 6802463218 P 13

EPAHO103001935

QUALITY CONTROL RESULTS

Job Number.: 327745 Report Date.: 01/05/2007

CUSTOMER: Buchanan Environmental Associates PROJECT: US CLEANERS ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
LCS	Laboratory Control Sample	VS122606H			01/03/2007	1211

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Dibromochloromethane, Water	10.3371		10.000000	ND	103.4		65-149	
1,1-Dichloroethane, Water	10.1868		10.000000	ND	101.9		64-132	
1,2-Dichloroethane, Water	10.3767		10.000000	ND	103.8		69-131	
1,1-Dichloroethene, Water	10.2425		10.000000	ND	102.4		53-120	
cis-1,2-Dichloroethene, Water	10.2070		10.000000	ND	102.1		60-145	
trans-1,2-Dichloroethene, Water	10.6049		10.000000	ND	106.0		60-147	
1,2-Dichloropropane, Water	10.1014		10.000000	ND	101.0		62-128	
Ethylbenzene, Water	10.3387		10.000000	ND	103.4		70-122	
Methylene Chloride, Water	9.72401		10.000000	ND	97.2		53-138	
Styrene, Water	10.7746		10.000000	ND	107.7		68-126	
1,1,2,2-Tetrachloroethane, Water	10.3847		10.000000	ND	103.8		51-151	
Tetrachloroethene, Water	10.0121		10.000000	ND	100.1		52-145	
Toluene, Water	10.2487		10.000000	ND	102.5		56-149	
1,1,1-Trichloroethane, Water	10.3971		10.000000	ND	104.0		61-141	
1,1,2-Trichloroethane, Water	10.1038		10.000000	ND	101.0		66-129	
Trichloroethene, Water	9.63609		10.000000	ND	96.4		58-153	
Vinyl Chloride, Water	10.4667		10.000000	ND	104.7		44-142	
Xylenes (total), Water	31.5749		30.000000	ND	105.2		41-152	
Acetone, Water	14.6054		10.000000	ND	146.1		38-188	
Carbon Disulfide, Water	10.1628		10.000000	ND	101.6		56-163	
cis-1,3-Dichloropropene, Water	10.5441		10.000000	ND	105.4		49-135	
trans-1,3-Dichloropropene, Water	10.3500		10.000000	ND	103.5		54-155	
Methyl Ethyl Ketone (2-Butanone), Water	10.2070		10.000000	ND	102.1		45-188	
2-Hexanone, Water	9.30933		10.000000	ND	93.1		50-158	
4-Methyl-2-pentanone (MIBK), Water	10.5931		10.000000	ND	105.9		54-151	
1,2-Dichloroethene (total), Water	20.8119		20.000000	ND	104.1		60-140	

MB	Method Blank	VS122606C			01/02/2007	1743

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	ND							
Bromodichloromethane, Water	ND							
Bromoform, Water	ND							
Bromomethane, Water	ND							
Carbon Tetrachloride, Water	ND							
Chlorobenzene, Water	ND							
Chloroethane, Water	ND							
Chloroform, Water	ND							
Chloromethane, Water	ND							
Dibromochloromethane, Water	ND							
1,1-Dichloroethane, Water	ND							
1,2-Dichloroethane, Water	ND							
1,1-Dichloroethene, Water	ND							
cis-1,2-Dichloroethene, Water	ND							
trans-1,2-Dichloroethene, Water	ND							
1,2-Dichloropropane, Water	ND							
Ethylbenzene, Water	ND							
Methylene Chloride, Water	ND							
Styrene, Water	ND							
1,1,2,2-Tetrachloroethane, Water	ND							
Tetrachloroethene, Water	ND							
Toluene, Water	ND							

FROM (THU)APR 26 2007 5:22/ST. 5:17/No. 6802463218 P 14

EPAHO103001936

QUALITY CONTROL RESULTS

Job Number.: 327745 Report Date.: 01/05/2007

CUSTOMER: Buchanan Environmental Associates PROJECT: US CLEANERS ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MB	Method Blank	VS122606C			01/02/2007	1743

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
1,1,1-Trichloroethane, Water	ND							
1,1,2-Trichloroethane, Water	ND							
Trichloroethene, Water	ND							
Vinyl Chloride, Water	ND							
Xylenes (total), Water	ND							
Acetone, Water	ND							
Carbon Disulfide, Water	ND							
cis-1,3-Dichloropropene, Water	ND							
trans-1,3-Dichloropropene, Water	ND							
Methyl Ethyl Ketone (2-Butanone), Water	ND							
2-Hexanone, Water	ND							
4-Methyl-2-pentanone (MIBK), Water	ND							
1,2-Dichloroethene (total), Water	ND							

MB	Method Blank	VS122606C			01/03/2007	1413

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	ND							
Bromodichloromethane, Water	ND							
Bromoform, Water	ND							
Bromomethane, Water	ND							
Carbon Tetrachloride, Water	ND							
Chlorobenzene, Water	ND							
Chloroethane, Water	ND							
Chloroform, Water	ND							
Chloromethane, Water	ND							
Dibromochloromethane, Water	ND							
1,1-Dichloroethane, Water	ND							
1,2-Dichloroethane, Water	ND							
1,1-Dichloroethene, Water	ND							
cis-1,2-Dichloroethene, Water	ND							
trans-1,2-Dichloroethene, Water	ND							
1,2-Dichloropropane, Water	ND							
Ethylbenzene, Water	ND							
Methylene Chloride, Water	ND							
Styrene, Water	ND							
1,1,2,2-Tetrachloroethane, Water	ND							
Tetrachloroethene, Water	ND							
Toluene, Water	ND							
1,1,1-Trichloroethane, Water	ND							
1,1,2-Trichloroethane, Water	ND							
Trichloroethene, Water	ND							
Vinyl Chloride, Water	ND							
Xylenes (total), Water	ND							
Acetone, Water	ND							
Carbon Disulfide, Water	ND							
cis-1,3-Dichloropropene, Water	ND							
trans-1,3-Dichloropropene, Water	ND							
Methyl Ethyl Ketone (2-Butanone), Water	ND							
2-Hexanone, Water	ND							
4-Methyl-2-pentanone (MIBK), Water	ND							
1,2-Dichloroethene (total), Water	ND							

 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

FROM (THU)APR 26 2007 5:22/ST. 5:17/No. 6802463218 P 15

EPAHO103001937

QUALITY CONTROL RESULTS

Job Number.: 327745 — Report Date.: 01/05/2007

CUSTOMER: Buchanan Environmental Associates — PROJECT: US CLEANERS — ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	VS122606E	327616-17	2000.0000	01/02/2007	1915

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	10.9390		10.000000	ND	109		65-125	
Bromodichloromethane, Water	10.0095		10.000000	ND	100		60-140	
Bromoform, Water	10.6299		10.000000	ND	106		60-140	
Bromomethane, Water	7.19061		10.000000	ND	72		60-140	
Carbon Tetrachloride, Water	11.7061		10.000000	ND	117		60-140	
Chlorobenzene, Water	10.6175		10.000000	ND	106		72-122	
Chloroethane, Water	11.5610		10.000000	ND	116		60-140	
Chloroform, Water	10.7415		10.000000	ND	107		60-140	
Chloromethane, Water	9.53786		10.000000	ND	95		60-140	
Dibromochloromethane, Water	10.0115		10.000000	ND	100		60-140	
1,1-Dichloroethane, Water	11.0126		10.000000	ND	110		60-140	
1,2-Dichloroethane, Water	11.4710		10.000000	ND	115		60-140	
1,1-Dichloroethene, Water	11.5121		10.000000	ND	115		22-123	
cis-1,2-Dichloroethene, Water	11.8393		10.000000	1.91079	99		60-140	
trans-1,2-Dichloroethene, Water	10.9010		10.000000	ND	109		60-140	
1,2-Dichloropropane, Water	11.4949		10.000000	ND	115		60-140	
Ethylbenzene, Water	11.0363		10.000000	ND	110		60-140	
Methylene Chloride, Water	10.8320		10.000000	ND	108		60-140	
Styrene, Water	10.2065		10.000000	ND	102		60-140	
1,1,2,2-Tetrachloroethane, Water	10.7179		10.000000	ND	107		60-140	
Tetrachloroethene, Water	11.0877		10.000000	ND	111		60-140	
Toluene, Water	10.9720		10.000000	ND	110		76-125	
1,1,1-Trichloroethane, Water	11.3843		10.000000	ND	114		60-140	
1,1,2-Trichloroethane, Water	10.6884		10.000000	ND	107		60-140	
Trichloroethene, Water	27.9342		10.000000	16.8684	111		56-118	
Vinyl Chloride, Water	11.3937		10.000000	ND	114		60-140	
Xylenes (total), Water	33.3117		30.000000	ND	111		60-140	
Acetone, Water	7.33103		10.000000	ND	73		60-140	
Carbon Disulfide, Water	11.9853		10.000000	ND	120		60-140	
cis-1,3-Dichloropropene, Water	11.2516		10.000000	ND	113		60-140	
trans-1,3-Dichloropropene, Water	12.1046		10.000000	ND	121		60-140	
Methyl Ethyl Ketone (2-Butanone), Water	9.74637		10.000000	ND	97		60-140	
2-Hexanone, Water	8.46148		10.000000	ND	85		60-140	
4-Methyl-2-pentanone (MIBK), Water	10.6031		10.000000	ND	106		60-140	
1,2-Dichloroethene (total), Water	22.7403		20.000000	1.91079	104		60-140	

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	VS122606E	327688-5	5.00000	01/03/2007	1514

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	10.8774		10.000000	ND	109		65-125	
Bromodichloromethane, Water	9.76092		10.000000	ND	98		60-140	
Bromoform, Water	10.0280		10.000000	ND	100		60-140	
Bromomethane, Water	6.69990		10.000000	ND	67		60-140	
Carbon Tetrachloride, Water	11.7981		10.000000	ND	118		60-140	
Chlorobenzene, Water	10.0125		10.000000	ND	100		72-122	
Chloroethane, Water	11.0620		10.000000	ND	111		60-140	
Chloroform, Water	10.0912		10.000000	ND	101		60-140	
Chloromethane, Water	9.64099		10.000000	ND	96		60-140	
Dibromochloromethane, Water	9.67505		10.000000	ND	97		60-140	
1,1-Dichloroethane, Water	11.2015		10.000000	ND	112		60-140	
1,2-Dichloroethane, Water	11.3110		10.000000	ND	113		60-140	
1,1-Dichloroethene, Water	11.0130		10.000000	ND	110		22-123	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

FROM (THU)APR 26 2007 5:23/ST. 5:17/No. 6802463218 P 16

EPAHO103001938

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(THU)APR 26 2007 5:23/ST. 5:17/No. 6802468219 P 1 FROM

QUALITY CONTROL RESULTS

Job Number.: 327745 Report Date.: 01/05/2007

CUSTOMER: Buchanan Environmental Associates PROJECT: US CLEANERS ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MS	Matrix Spike	VS122606E	327688-5	5.00000	01/03/2007	1514

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
cis-1,2-Dichloroethene, Water	10.5165		10.000000	ND	105	60-140	
trans-1,2-Dichloroethene, Water	10.6781		10.000000	ND	107	60-140	
1,2-Dichloropropane, Water	11.3366		10.000000	ND	113	60-140	
Ethylbenzene, Water	10.3566		10.000000	ND	104	60-140	
Methylene Chloride, Water	10.0901		10.000000	ND	101	60-140	
Styrene, Water	9.95066		10.000000	ND	100	60-140	
1,1,2,2-Tetrachloroethane, Water	9.78010		10.000000	ND	98	60-140	
Tetrachloroethene, Water	10.3642		10.000000	ND	104	60-140	
Toluene, Water	10.3406		10.000000	ND	103	76-125	
1,1,1-Trichloroethane, Water	11.3040		10.000000	ND	113	60-140	
1,1,2-Trichloroethane, Water	10.0935		10.000000	ND	101	60-140	
Trichloroethene, Water	28.5178		10.000000	17.0756	114	56-118	
Vinyl Chloride, Water	11.1276		10.000000	ND	111	60-140	
Xylenes (total), Water	31.2423		30.000000	ND	104	60-140	
Acetone, Water	8.62340		10.000000	ND	86	60-140	
Carbon Disulfide, Water	11.2485		10.000000	ND	112	60-140	
cis-1,3-Dichloropropene, Water	10.3322		10.000000	ND	103	60-140	
trans-1,3-Dichloropropene, Water	11.2371		10.000000	ND	112	60-140	
Methyl Ethyl Ketone (2-Butanone), Water	11.1211		10.000000	ND	111	60-140	
2-Hexanone, Water	8.35352		10.000000	ND	84	60-140	
4-Methyl-2-pentanone (MIBK), Water	9.67696		10.000000	ND	97	60-140	
1,2-Dichloroethene (total), Water	21.1946		20.000000	ND	106	60-140	

MSD	Matrix Spike Duplicate	VS122606E	327616-17	2000.0000	01/02/2007	1945

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F
Benzene, Water	10.5866	10.9390	10.000000	ND	106	65-125	
					3.3	30.0	
Bromodichloromethane, Water	9.75329	10.0095	10.000000	ND	98	60-140	
					2.6	30.0	
Bromoform, Water	10.7226	10.6299	10.000000	ND	107	60-140	
					0.9	30.0	
Bromomethane, Water	7.63287	7.19061	10.000000	ND	76	60-140	
					6.0	30.0	
Carbon Tetrachloride, Water	11.1360	11.7061	10.000000	ND	111	60-140	
					5.0	30.0	
Chlorobenzene, Water	10.4823	10.6175	10.000000	ND	105	72-122	
					1.3	30.0	
Chloroethane, Water	10.9659	11.5610	10.000000	ND	110	60-140	
					5.3	30.0	
Chloroform, Water	10.3509	10.7415	10.000000	ND	104	60-140	
					3.7	30.0	
Chloromethane, Water	9.31876	9.53786	10.000000	ND	93	60-140	
					2.3	30.0	
Dibromochloromethane, Water	10.3257	10.0115	10.000000	ND	103	60-140	
					3.1	30.0	
1,1-Dichloroethane, Water	10.6215	11.0126	10.000000	ND	106	60-140	
					3.6	30.0	
1,2-Dichloroethane, Water	10.5364	11.4710	10.000000	ND	105	60-140	
					8.5	30.0	
1,1-Dichloroethene, Water	10.8545	11.5121	10.000000	ND	109	22-123	
					5.9	30.0	

FROM (THU)APR 26 2007 5:23/ST. 5:17/No. 6802463219 P 2

EPAHO103001940

QUALITY CONTROL RESULTS

Job Number.: 327745 — Report Date.: 01/05/2007

CUSTOMER: Buchanan Environmental Associates — PROJECT: US CLEANERS — ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MSD	Matrix Spike Duplicate	VS122606E	327616-17	2000.0000	01/02/2007	1945

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
cis-1,2-Dichloroethene, Water	11.7171	11.8393	10.000000	1.91079	98		60-140	
					1.0		30.0	
trans-1,2-Dichloroethene, Water	10.4104	10.9010	10.000000	ND	104		60-140	
					4.6		30.0	
1,2-Dichloropropane, Water	11.0276	11.4949	10.000000	ND	110		60-140	
					4.1		30.0	
Ethylbenzene, Water	10.7206	11.0363	10.000000	ND	107		60-140	
					2.9		30.0	
Methylene Chloride, Water	9.97363	10.8320	10.000000	ND	100		60-140	
					8.3		30.0	
Styrene, Water	10.0534	10.2065	10.000000	ND	101		60-140	
					1.5		30.0	
1,1,2,2-Tetrachloroethane, Water	11.0707	10.7179	10.000000	ND	111		60-140	
					3.2		30.0	
Tetrachloroethene, Water	10.5582	11.0877	10.000000	ND	106		60-140	
					4.9		30.0	
Toluene, Water	10.7150	10.9720	10.000000	ND	107		76-125	
					2.4		30.0	
1,1,1-Trichloroethane, Water	10.8895	11.3843	10.000000	ND	109		60-140	
					4.4		30.0	
1,1,2-Trichloroethane, Water	10.1717	10.6884	10.000000	ND	102		60-140	
					5.0		30.0	
Trichloroethene, Water	27.0898	27.9342	10.000000	16.6684	102		56-118	
					3.1		30.0	
Vinyl Chloride, Water	11.0928	11.3937	10.000000	ND	111		60-140	
					2.7		30.0	
Xylenes (total), Water	32.5444	33.3117	30.000000	ND	108		60-140	
					2.3		30.0	
Acetone, Water	7.14392	7.33103	10.000000	ND	71		60-140	
					2.6		30.0	
Carbon Disulfide, Water	11.3421	11.9853	10.000000	ND	113		60-140	
					5.5		30.0	
cis-1,3-Dichloropropene, Water	10.5688	11.2516	10.000000	ND	106		60-140	
					6.3		30.0	
trans-1,3-Dichloropropene, Water	11.7072	12.1046	10.000000	ND	117		60-140	
					3.3		30.0	
Methyl Ethyl Ketone (2-Butanone), Water	10.6764	9.74637	10.000000	ND	107		60-140	
					9.1		30.0	
2-Hexanone, Water	9.24571	8.46148	10.000000	ND	92		60-140	
					8.9		30.0	
4-Methyl-2-pentanone (MIBK), Water	10.3490	10.6031	10.000000	ND	103		60-140	
					2.4		30.0	
1,2-Dichloroethene (total), Water	22.1275	22.7403	20.000000	1.91079	101		60-140	
					2.7		30.0	

MSD	Matrix Spike Duplicate	VS122606E	327688-5	5.00000	01/03/2007	1544

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Benzene, Water	11.7143	10.8774	10.000000	ND	117		65-125	
					7.4		30.0	
Bromodichloromethane, Water	10.6121	9.76092	10.000000	ND	106		60-140	
					8.4		30.0	

* B=% REC, R=RPD, A=ABS Diff., D=% Diff.

FROM (THU)APR 26 2007 5:24/ST. 5:17/No. 6802463219 P 3

EPAHO103001941

QUALITY CONTROL RESULTS

Job Number.: 327745 Report Date.: 01/05/2007

CUSTOMER: Buchanan Environmental Associates PROJECT: US CLEANERS ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MSD	Matrix Spike Duplicate	VS122606E	327688-5	5.00000	01/03/2007	1544

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
Bromoform, Water	11.0212	10.0280	10.000000	ND	110		60-140	
					9.4		30.0	
Bromomethane, Water	8.13422	6.69990	10.000000	ND	81		60-140	
					19.3		30.0	
Carbon Tetrachloride, Water	12.4257	11.7981	10.000000	ND	124		60-140	
					5.2		30.0	
Chlorobenzene, Water	11.3111	10.0125	10.000000	ND	113		72-122	
					12.2		30.0	
Chloroethane, Water	11.9600	11.0620	10.000000	ND	120		60-140	
					7.8		30.0	
Chloroform, Water	11.3126	10.0912	10.000000	ND	113		60-140	
					11.4		30.0	
Chloromethane, Water	10.7238	9.64099	10.000000	ND	107		60-140	
					10.6		30.0	
Dibromochloromethane, Water	11.1419	9.67505	10.000000	ND	111		60-140	
					14.1		30.0	
1,1-Dichloroethane, Water	11.8924	11.2015	10.000000	ND	119		60-140	
					6.0		30.0	
1,2-Dichloroethane, Water	12.3104	11.3110	10.000000	ND	123		60-140	
					8.5		30.0	
1,1-Dichloroethene, Water	11.6893	11.0130	10.000000	ND	117		22-123	
					6.0		30.0	
cis-1,2-Dichloroethene, Water	10.8891	10.5165	10.000000	ND	109		60-140	
					3.5		30.0	
trans-1,2-Dichloroethene, Water	11.6246	10.6781	10.000000	ND	116		60-140	
					8.5		30.0	
1,2-Dichloropropane, Water	12.3359	11.3366	10.000000	ND	123		60-140	
					8.4		30.0	
Ethylbenzene, Water	11.6221	10.3566	10.000000	ND	116		60-140	
					11.5		30.0	
Methylene Chloride, Water	10.7770	10.0901	10.000000	ND	108		60-140	
					6.6		30.0	
Styrene, Water	11.1671	9.95066	10.000000	ND	112		60-140	
					11.5		30.0	
1,1,2,2-Tetrachloroethane, Water	11.3297	9.78010	10.000000	ND	113		60-140	
					14.7		30.0	
Tetrachloroethene, Water	11.5113	10.3642	10.000000	ND	115		60-140	
					10.5		30.0	
Toluene, Water	11.7546	10.3406	10.000000	ND	118		76-125	
					12.8		30.0	
1,1,1-Trichloroethane, Water	12.0461	11.3040	10.000000	ND	120		60-140	
					6.4		30.0	
1,1,2-Trichloroethane, Water	10.9643	10.0935	10.000000	ND	110		60-140	
					8.3		30.0	
Trichloroethene, Water	29.5052	28.5178	10.000000	17.0756	124		56-118	A
					3.4		30.0	
Vinyl Chloride, Water	12.1816	11.1276	10.000000	ND	122		60-140	
					9.0		30.0	
Xylenes (total), Water	35.4786	31.2423	30.000000	ND	118		60-140	
					12.7		30.0	
Acetone, Water	8.71246	8.62340	10.000000	ND	87		60-140	
					1.0		30.0	
Carbon Disulfide, Water	12.3676	11.2485	10.000000	ND	124		60-140	
					9.5		30.0	

* %-% REC, R-RPD, A-ABS Diff., D-% Diff.

FROM (THU)APR 26 2007 5:24/ST. 5:17/No. 6802463219 P 4

EPAHO103001942

QUALITY CONTROL RESULTS

Job Number.: 327745 Report Date.: 01/05/2007

CUSTOMER: Buchanan Environmental Associates PROJECT: US CLEANERS ATTN:

QC Type	Description	Reag. Code	Lab ID	Dilution Factor	Date	Time
MSD	Matrix Spike Duplicate	VS122606E	327688-5	5.00000	01/03/2007	1544

Parameter/Test Description	QC Result	QC Result	True Value	Orig. Value	Calc. Result	*	Limits	F
cis-1,3-Dichloropropene, Water	11.3414	10.3322	10.000000	ND	113		60-140	
					9.3		30.0	
trans-1,3-Dichloropropene, Water	12.6598	11.2371	10.000000	ND	127		60-140	
					11.9		30.0	
Methyl Ethyl Ketone (2-Butanone), Water	11.3642	11.1211	10.000000	ND	114		60-140	
					2.2		30.0	
2-Hexanone, Water	9.15764	8.35352	10.000000	ND	92		60-140	
					9.2		30.0	
4-Methyl-2-pentanone (MIBK), Water	10.7604	9.67696	10.000000	ND	108		60-140	
					10.6		30.0	
1,2-Dichloroethene (total), Water	22.5137	21.1946	20.000000	ND	113		60-140	
					6.0		30.0	

* %=% REC, R=RPD, A=ABS Diff., D=% Diff.

FROM (THU)APR 26 2007 5:24/ST. 5:17/No. 6802463219 P 5

EPAHO103001943

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 01/05/2007

REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
2) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
3) According to 40CFR Part 136.3, pH, Chlorine Residual, and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as Field, (e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.
4) For all USACE projects, the QC limits are based on "mean +/- 2 sigma", which are the warning limits.

General Information:

- Cresylic Acid is the combination of o,m and p-Cresol. The combination is reported as the final result.
- m-Cresol and p-Cresol co-elute. The result of the two is reported as either m&p-cresol or as p-cresol.
- m-Xylene and p-Xylene co-elute. The result of the two is reported as m,p-Xylene.
- N-Nitrosodiphenylamine decomposes in the gas chromatograph inlet forming diphenylamine and, consequently, may be detected as diphenylamine.
- Methylene Chloride and Acetone are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
- Trimethysilyl(Diazomethane) is used to esterify acid herbicides in Method SW-846 8151A.
- For Inorganic analyses, duplicate QC limits are determined as follows: If the sample result is less than or equal to 5 times the reporting limit, the RPD limit is equal to the reporting limit. If the sample result is greater than 5 times the reporting limit, the RPD limit is the method defined RPD.
- For TRRP reports, the header on the column RL is equivalent to a MQL/PQL.

Explanation of Qualifiers:

U - This qualifier indicates that the analyte was analyzed but not detected.
J - (Organics only) This qualifier indicates that the analyte is an estimated value between the RL and the MDL.
B - (Inorganics only) This Qualifier indicates that the analyte is an estimated value between the RL and the MDL.
N - (Organics only) This flag indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as "chlorinated hydrocarbon", the "N" flag is not used.

Explanation of General QC Outliers:

A - Matrix interference present in sample.
a - MS/MSD analyses yielded comparable poor recoveries, indicating a possible matrix interference. Method performance is demonstrated by acceptable LCS recoveries.
b - Target analyte was found in the method blank.
M - QC sample analysis yielded recoveries outside QC acceptance criteria. This sample was reanalyzed.
L - LCS analysis yielded high recoveries, indicating a potential high bias. No target analytes were observed above the RL in the associated samples.
G - Marginal outlier within 1% of acceptance criteria.
r - RPD value is outside method acceptance criteria.
C - Poor RPD values observed due to the non-homogenous nature of the sample.
O - Sample required dilution due to matrix interference.
D - Sample reported from a dilution.
d - Spike and/or surrogate diluted.
P - The recovery of this analyte is outside default QC limits. The data is accepted and will be used to calculate in-house statistical limits.
E - The reported concentration exceeds the instrument calibration.
F - The analyte is outside QC limits. The sample data is accepted since this analyte is not reported in associated samples.
H - Continuing Calibration Verification (CCV) standard is not associated with the samples reported.

FROM (THU)APR 26 2007 5:24/ST. 5:17/No. 6802463219 P 6

EPAHO103001944

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 01/05/2007

q - See the subcontract final report for qualifier explanation.
W - The MS/MSD recoveries are outside QC acceptance criteria because the amount spiked is much less than the amount found in the sample.
K - High recovery will not affect the quality of reported results.
Z - See case narrative.

Explanation of Organic QC Outliers:

e - Method blank analysis yielded phthalate concentrations above the RL. Phthlates are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
S - Sample reanalyzed/reextracted due to poor surrogate recovery. Reanalysis confirmed original analysis indicating a possible matrix interference.
T - Sample analysis yielded poor surrogate recovery.
R - The RPD between the two GC columns is greater than 40% and no anomalies are present. The higher result is reported as per EPA Method 8000B.
I - The RPD between the two GC columns is greater than 40% and anomalies are present. The lower of the two results has been reported.
X - Gaseous compound. In-house QC limits are advisory.
Y - Ketone compounds have poor purge efficiency. In-house QC limits are advisory.
f - Surrogate not associated with reported analytes.

Explanation of Inorganic QC Outliers:

Q - Method blank analysis yielded target analytes above the RL. Associated sample results are greater than 10 times the concentrations observed in the method blank.
V - The RPD control limit for sample results less than 5 times the RL is +/- the RL value. Sample and duplicate results are within method acceptance criteria.
e - Serial dilution failed due to matrix interference.
g - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficent for the MSA is greater than or equal to 0.995.
s - BOD/cBOD seed value is not within method acceptance criteria. Due to the nature of the test method, the sample cannot be reanalyzed.
l - BOD/cBOD LCS value is not within method acceptance criteria. Due to the nature of the test method, sample cannot be reanalyzed.
N - Spiked sample recovery is not within control limits.
n - Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficient for the MSA is less than 0.995.
* - Duplicate analysis is not within control limits.

Abbreviations:

Batch - Designation given to identify a specific extraction, digestion, preparation, or analysis set.
CCV - Continuing Calibration Verification
CRA - Low level standard check - GFAA, Mercury
CRI - Low level standard check - ICP
Dil Fac - Dilution Factor - Secondary dilution analysis
DLFac - Detection Limit Factor
DU - Duplicate
EB - Extraction Blank (TCLP, SPLP, etc.)
ICAL - Initial Calibration
ICB - Initial Calibration Blank
ICV - Initial Calibration Verification
ISA - Interference Check Sample A - ICP
ISB - Interference Check Sample B - ICP
LCD - Laboratory Control Duplicate
LCS - Laboratory Control Sample

FROM (THU)APR 26 2007 5:24/ST. 5:17/No. 6802463219 P 7

EPAHO103001945

LABORATORY CHRONICLE

Job Number: 327745 Date: 01/05/2007

CUSTOMER: Buchanan Environmental Associates PROJECT: US CLEANERS ATTN: David Buchanan

Lab ID: 327745-1 Client ID: MW-11 Date Recvd: 12/22/2006 Sample Date: 12/22/2006

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #	(S)	DATE/TIME ANALYZED		DILUTION
SW-846 8260B	Volatile Organics (25mL purge)	1	169315			01/02/2007	2147	1.00000

Lab ID: 327745-2 Client ID: MW-10 Date Recvd: 12/22/2006 Sample Date: 12/22/2006

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #	(S)	DATE/TIME ANALYZED		DILUTION
SW-846 8260B	Volatile Organics (25mL purge)	1	169315			01/02/2007	2217	1.00000

Lab ID: 327745-3 Client ID: TRIP BLANK Date Recvd: 12/22/2006 Sample Date: 12/22/2006

METHOD	DESCRIPTION	RUN#	BATCH#	PREP BT #	(S)	DATE/TIME ANALYZED		DILUTION
SW-846 8260B	Volatile Organics (25mL purge)	1	169315			01/03/2007	1917	1.00000

FROM (THU)APR 26 2007 5:24/ST. 5:17/No. 6802463219 P 8

EPAHO103001946

rpjackl	Job Sample Receipt Checklist Report	V2

Job Number.: 327745 Location.: 57216 Check List Number.: 1 Description.:
Customer Job ID.....: Job Check List Date.: 12/22/2006 Date of the Report..: 12/22/2006
Project Number.: 99007170 Project Description.: Landmark Shopping Center Project Manager.....: jlr
Customer.....: Buchanan Environmental Associates Contact.: David Buchanan

Questions ?	(Y/N)	Comments
Chain of Custody Received?	Y	
...If "yes", completed properly?	Y	
Custody seal on shipping container?	N	
...If "yes", custody seal intact?		
Custody seals on sample containers?	N	
...If "yes", custody seal intact?		
Samples chilled?	Y	
Temperature of cooler acceptable? (4 deg C +/- 2).	Y	4.5
...If "no", is sample an air matrix?(no temp req.)		
Thermometer ID,	Y	440
Samples received intact (good condition)?	Y	
Volatile samples acceptable? (no headspace)		
Correct containers used?	Y	
Adequate sample volume provided?	Y	
Samples preserved correctly?	Y	
Samples received within holding-time?	Y	
Agreement between COC and sample labels?	Y	
Radioactivity at or below background levels?		
Additional		
Comments		
Sample Custodian Signature/Date	Y	MT

FROM (THU)APR 26 2007 5:24/ST. 5:17/No. 6802468219 P 9

EPAHO103001947

SEVERN TRENT **STL**

CHAIN OF CUSTODY RECORD 327745

Customer Information		Project Information			Analysis/Method	No.
PO		PROJECT NAME	~~[redacted]~~ US Cleaners	A	8260B - VOC TCL List	
WO		LAB NUMBER	BOTTLE ORDER	B		
COMPANY	Buchanan Environmental Associates	BILL TO	Buchanan Environmental Associates	C		
SEND REPORT TO	David Buchanan	INVOICE ATTN	David Buchanan	D		
ADDRESS	20406 Perryoak Dr.	ADDRESS	P.O. BOX 14634	E		
				F		
				G		
CITY/STATE/ZIP	Humble, TX 77346	CITY/STATE/ZIP	Humble, TX 77347-4634	H		
PHONE	281-852-2438	PHONE	281-852-2439	I		
FAX	281-852-2462	FAX	281-852-2462	J		
				K		
				L		
				M		
				N		
				O		
				P		
				Q		
				R		
				S	STL Project 99007170	

SAMP NO	SAMPLE DESCRIPTION	PRESERVE	F	SAMPLE MATRIX	SAMPLE DATE	SAMPLE TIME	# CONTAINER	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	MW-11	HCl		W	12/22/06	2:22		X																		
2	MW-10	"		"	"	330		X																		

Sampler: David Buchanan | Shipment Method: Delivered | Airbill No.: | Required TurnAround:

1. Relinquished By: David Buchanan	Date 12/22/06	2. Relinquished By:	Date	3. Relinquished By:	Date
Company Name: Buchanan Env. Assoc	Time 1618	Company Name:	Time	Company Name:	Time
1. Received By:	Date 12/22/06	2. Received By:	Date	3. Received By:	Date
Company Name: STL	Time 1618	Company Name:	Time	Company Name:	Time

Severn Trent Laboratories 6310 Rothway Drive Houston, TX 77040 713-690-4444 FAX 713-690-5646

FROM
(THU) APR 26 2007 5:24/ST. 5:17/No. 6802463219 P 10
EPAHO103001948

Williams Brothers 2182
Ref # 2182

EPAHO103001949

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/29/2007**

Dear **Zac or Dave**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2182

Generator: Williams Brothers
Address: 1650 Holmes
Houston, TX 77045

Waste Information

Name of Waste: High sulfur distillate
TCEQ Waste Code #: Product
Container Type:
Detailed Description of Process Generating Waste:
Unused red diesel from job site.
Color: red **Odor:** mild **pH:** na
Physical State:
Incompatibilities: na
Safety Related Data/Special Handling:
standard

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

Attn: Lewis Hopp

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 39048
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Williams Brother
Address: Kirby ; Holmes (1650 Home)
City, State, Zip: Houston, TX 77045
Contact: Mark Anderson Title: HSR
Phone No: 832-309-4829 Fax No:
24/hr Phone: 281-541-4829
U.S. EPA I.D. No: N/A
State I.D. N/A SIC Code: NA

SECTION 2: Billing Information – ☐ Same as Above

Company: CVG Services
Address: 10707 Honea Egypt Rd
City, State, Zip: Montgomery, TX 77316
Contact: Traci Fisher Title: office mgr.
Phone No: 936-483-3662 Fax No: 936-483-3674

SECTION 3: General Description of the Waste

Name of Waste: High Sulfor Distillate
Detailed Description of Process Generating Waste: Unused Red Diesel from job site.

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Red Odor: Mild

Specific Gravity (water=1): .8762 Density: 7.28 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55

Frequency: ☐ Weekly ☒ Monthly ☐ Quarterly ☐ Yearly
Number of Units (containers): 2 Other:
Texas State Waste Code No: Product
Proper U.S. DOT Shipping Name: Fuel Oil (No. 2)
Class: 3 UN/NA: 1993 PG: III RQ: NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
711 F	NA	0 mg/l	0 mg/l	0 %

Oil&Grease	TOC	Zinc	Copper	Nickel
0 mg/l	0 mg/l	0 mg/l	0 mg/l	0 mg/l

EPAHO103001951

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Diesel fuel	100	%
Sulfur	<0.5	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

N/A

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: —
TCLP Volatiles: —
TCLP Semi-Volatiles: —
Reactivity: —
Corrosivity: —
Ignitability: —

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 4/25/07

Printed Name/Title: Zach Vaughan

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____

Date: 5-1-07 Approved Rejected

Approval Number: 2182

Additional Information: If no Water

No Charge if over 30% water

$25/drum

EPAHQ103001952

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001953

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001954

November 30, 1998

USA and WORLDWIDE

Material Safety Data Sheet

NO. 2 HIGH SULFUR DISTILLATE

PHILLIPS 66 COMPANY
A Division of Phillips Petroleum Company
Bartlesville, Oklahoma 74004

PHONE NUMBERS
Emergency: (918) 661-8118
General MSDS Information: (918) 661-3709
For Additional MSDSs: (918) 661-3709

A. Product Identification

Synonyms: High Sulfur Diesel Fuel; #2 Distillate
Chemical Name: Mixture
Chemical Family: Hydrocarbons
Chemical Formula: Mixture
CAS Reg. No.: 68476-34-6
Product No.: 1014081(34360); 1014100(35360)

Product and/or Components Entered on EPA's TSCA Inventory: YES

This product is in U.S. commerce, and is listed in the Toxic Substances Control Act (TSCA) Inventory of Chemicals; hence, it may be subject to applicable TSCA provisions and restrictions.

B. Components

Ingredients	CAS Number	% By Wt.	OSHA PEL	ACGIH TLV
Diesel fuel	68476-34-6	100	NE	NE
may include Benzene	71-43-2	< 50 ppm	10 ppm*	0.5 ppm
Sulfur	7704-34-9	< 0.5	NE	NE

* Areas covered by the Benzene Standard, 29 CFR 1910.1028, will have a 1 ppm 8 hour TWA and 5 ppm STEL.

NA - Not Applicable NE - Not Established

EPAHO103001955

C. Personal Protection Information

Ventilation: Use adequate ventilation.

Respiratory Protection: Not generally required unless needed to prevent respiratory irritation. In case of spill or leak resulting in unknown concentration, use NIOSH approved supplied air respirator.

Eye Protection: For splash protection, use chemical goggles and face shield.

Skin Protection: Use gloves resistant to the material being used. (i.e., neoprene or Nitrile rubber). Use protective garments to prevent excessive skin contact.

NOTE: Personal protection information shown in Section C is based upon general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

D. Handling and Storage Precautions

Do not get in eyes, on skin or on clothing. Avoid breathing vapors, mist, fume or dust. Do not swallow, may be aspirated into lungs. Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Wash thoroughly after handling. Launder contaminated clothing before reuse. Use with adequate ventilation.

Keep away from heat, sparks, and flames. Store in closed container. Store in well-ventilated area. Bond and ground during transfer.

E. Reactivity Data

Stability: Stable
Conditions to Avoid: Not Established
Incompatibility (Materials to Avoid): Oxygen and strong oxidizing agents

Hazardous Polymerization: Will not occur
Conditions to Avoid: Not Established
Hazardous Decomposition Products: Carbon and sulfur oxides and various hydrocarbons formed when burned.

F. Health Hazard Data

Recommended Exposure Limits:

See Section B.

EPAHO103001956

Acute Effects of Overexposure:

Eye: May cause mild irritation, with stinging and redness of the eyes.

Skin: May cause severe irritation. Repeated or prolonged contact may cause defatting of the skin, resulting in dermatitis. Dermal LD50 for diesel fuel is > 5 ml/kg (rabbit).

Inhalation: May cause irritation to nose, throat or lungs. Headache, nausea, dizziness, unconsciousness may occur.

Ingestion: May cause irritation to intestines. May cause headache, nausea, unconsciousness. If swallowed, may be aspirated resulting in inflammation and possible fluid accumulation in the lungs. Oral LD50 for diesel fuel is 9 ml/kg (rat).

Subchronic and Chronic Effects of Overexposure:

No known applicable information.

Other Health Effects:

Combustion (burning) of most carbon-containing material forms carbon monoxide. Carbon monoxide inhalation may cause carboxyhemoglobinemia. Chronic exposure to carbon monoxide causes fatigue, poor memory, loss of sensation in fingers, visual disturbances and insomnia. Carboxyhemoglobinemia is frequently misdiagnosed as flu.

Sensitive sub-populations to the inhalation of carbon monoxide exist. Carbon monoxide displaces oxygen in the bloodstream and therefore, can adversely effect people with pre-existing heart disease, pregnant women and smokers.

Combustion, a normal use of diesel fuel, results in an exhaust that has been associated with lung cancer in animals. There is limited evidence to suggest an association between occupational exposure to diesel exhaust and lung cancer in humans.

Health Hazard Categories:

	Animal	Human		Animal	Human
Known Carcinogen	___	___	Toxic	___	___
Suspect Carcinogen	___	___	Corrosive	___	___
Mutagen	___	___	Irritant	_X_	_X_
Teratogen	___	___	Target Organ Toxin	_X_	_X_
Allergic Sensitizer	___	___	Specify ~ Lung - Aspiration Hazard		
Highly Toxic	___	___			

EPAHO103001957

I. Spill, Leak and Disposal Procedures

Precautions Required if Material is Released or Spilled:
Evacuate area of all unnecessary personnel. Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Shut off source, if possible and contain spill. Protect from ignition. Keep out of water sources and sewers. Absorb in dry, inert material (sand, clay, etc.). Transfer to disposal drums using non-sparking equipment.

Waste Disposal (Insure Conformity with all Applicable Disposal Regulations):
Incinerate or place in permitted waste management facility.

J. DOT Transportation

Shipping Name:	Fuel oil (No. 2)
Hazard Class:	3 (Flammable liquid)
ID Number:	NA 1993
Packing Group:	III
Marking:	Fuel oil (No.2), 1993
Label:	Flammable liquid
Placard:	Flammable/1993
Hazardous Substance/RQ:	Not applicable
Shipping Description:	Fuel oil (No. 2), 3 (Flammable liquid), NA 1993, PG III
Packaging References:	49 CFR 173.150, 173.203, 173.241

NOTE: This product may be reclassed as a combustible liquid when shipped domestically, by land only. If reclassed as a combustible liquid, this product is unregulated by DOT when shipped in non-bulk quantities.

K. RCRA Classification - Unadulterated Product as a Waste

Ignitable (D001)

Prior to disposal, consult your environmental contact to determine if TCLP (Toxicity Characteristic Leaching Procedure, EPA Test Method 1311) is required. Reference 40 CFR Part 261.

L. Protection Required for Work on Contaminated Equipment

Contact immediate supervisor for specific instructions before work is initiated. Wear protective equipment and/or garments described in Section C if exposure conditions warrant.

M. Hazard Classification

_X_ This product meets the following hazard definition(s) as defined by the Occupational Safety and Health Hazard Communication Standard (29 CFR Section 1910.1200):

_X_ Combustible Liquid	___ Flammable Aerosol	___ Oxidizer
___ Compressed Gas	___ Explosive	___ Pyrophoric
___ Flammable Gas	_X_ Health Hazard (Section F)	___ Unstable
___ Flammable Liquid	___ Organic Peroxide	___ Water Reactive
___ Flammable Solid		

___ Based on information presently available, this product does not meet any of the hazard definitions of 29 CFR Section 1910.1200.

EPAHO103001958

2183 Calpine Baytown
Prof # 2183

EPAHO103001959

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/30/2007**

Dear **Lue Miller**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2183

Generator: Calpine Baytown Energy Center
Address: 8605 FM 1405
Baytown, TX 77520

Waste Information

Name of Waste: Recyclable booms and pads
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Oil absorbent pads and oil from a leaking bearing under a turbine engine.
Color: white to black **Odor:** none-oily **pH:** 5-10
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
level D PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

D3

SECTION 1: Generator Information

Company:	Calpine Baytown Energy Center		
Address:	8605 FM 1405		
City, State, Zip:	Baytown, TX 77520		
Contact:	Perry Cruthirds	**Title:**	Maintenance Supervisor
Phone No:	281-303-4200	**Fax No:**	281-303-4299
24/hr Phone:	281-303-4214		
U.S. EPA I.D. No:	Na		
State I.D.	Na	**SIC Code:**	NA

SECTION 2: Billing Information – ☐ Same as Above

Company:	Baytown Energy Center		
Address:	PO Box 840		
City, State, Zip:	Baytown, TX 77521		
Contact:	Accts. Payable	**Title:**	
Phone No:	281-303-4200	**Fax No:**	281-303-4299

SECTION 3: General Description of the Waste

Name of Waste: Recyclable Booms and Pads
Detailed Description of Process Generating Waste: Oil absorbent pads and oil from a leaking bearing under a turbine engine.

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: White to Black **Odor:** None-Oily

Specific Gravity (water=1): .8-1.1 **Density:** 8 lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☒ Drum	☐ Tote	☐ Truck	☐ Other (explain)
Container Size:	55 G	____	____	____

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 1-20 **Other:** ____
Texas State Waste Code No: Recycled
Proper U.S. DOT Shipping Name: Recyclable oily Booms and Pads
Class: NA **UN/NA:** Na **PG:** Na **RQ:** Na

Flash Point >200	**pH** 5-10	**Reactive Sulfides** 0mg/l	**Reactive Cyanides** 0mg/l	**Solids** 95-100%
Oil&Grease >1500mg/l	**TOC** Namg/l	**Zinc** Namg/l	**Copper** Namg/l	**Nickel** NAmg/l

EPAHO103001961

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Oil Absorbent Pads	60-95	%
Bearing Oil	3-5	%
Water	5-15	%
Booms	0-40	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Level D PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
None

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: X
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: X
Corrosivity: X
Ignitability: X

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 05/03/07

Printed Name/Title: Perry Cruthirds/Maintenance Supervisor

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information: REC
Compliance Officer: _____	$35/d m
Date: 5-4-07 Approved Rejected	
Approval Number: 2183	

EPAHO103001962

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001963

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001964

2184 Enterprise (Liberty County)
Prof # 2184

EPAHO103001965

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/30/2007**

Dear **Mike Tomerlin**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2184

Generator: Enterprise (Liberty CountY)
Address: Hwy 4310
Winnie, TX 77580

Waste Information

Name of Waste: Foam pigs
TCEQ Waste Code #: FHMM3191
Container Type: 25 yd box
Detailed Description of Process Generating Waste:
Used pigs to hydro test a pipeline
Color: dark **Odor:** hydrocarbon **pH:** 3-11
Physical State:
Incompatibilities: none known
Safety Related Data/Special Handling:
standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Enterprise (Liberty County)
Address: Hwy 1410
City, State, Zip: Wiggs, TX
Contact: Mike Tomerlin Title: Environmental Manager
Phone No: 281-385-4310 Fax No:
24/hr Phone: 281-385-4310
U.S. EPA I.D. No: N/A
State I.D. XXX12 SIC Code: NA

SECTION 2: Billing Information – ☐ Same as Above

Company: Enterprise Products
Address: Po Box 753
City, State, Zip: Mont Belvieu, TX 77580
Contact: Mike Tomerlin Title:
Phone No: 281-385-4310 Fax No:

SECTION 3: General Description of the Waste

Name of Waste: Foam Pigs
Detailed Description of Process Generating Waste: Used pigs to hydro test a pipeline

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☒ Solid ☐ Filter Cake ☐ Combination

Color: Dark Odor: Hydrocarbon

Specific Gravity (water=1): N/A Density: NA lbs/gal

Layers: ☒ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☒ Other (explain) 25 yd Box
Container Size: ___ ___ ___

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly one time
Number of Units (containers): 1 Other: ___
Texas State Waste Code No: FHMM3191
Proper U.S. DOT Shipping Name: Non DOT Regulated Material
Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>160	3-11	<50 mg/l	<50 mg/l	100 %
Oil&Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
NA mg/l	NA mg/l	NA mg/l	NA mg/l	NA mg/l

EPAHO103001967

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Foam Pigs	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
Analysis

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
None Known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ___
TCLP Volatiles: X
TCLP Semi-Volatiles: X
Reactivity: ___
Corrosivity: ___
Ignitability: ___

SECTION 9: Generator's Certification

The information contained herein is based on [X] generator knowledge and/or [X] analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] Date: 5-3-2007

Printed Name/Title: Field Env. Lead - Houston.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information:
Compliance Officer: [signature] Date: 5-4-07 Approved Rejected Approval Number: 2184	$75/yd 1S

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001969

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

ENVIRON EXPRESS LABORATORIES, INC.

401 N. 11th. St.
La Porte, TX 77571
281.471.0951 FAX:281.471.5821

Express Laboratories

CERTIFICATE OF ANALYSIS NO: 61405.02

Customer: **CES Env. Svcs.** Sample ID: **Water** Environ ID: **61405.02**
Project ID: **Enterprise BX 274160** Sampled: **01-11-07**
Project Loc: **Hwy 1410 - Winnie, TX** Matrix: **Liquid** Received: **01-12-07**
Charge/P.O.: Type: **Composite** Reported: **01-17-07**

RECEIVED BASIS

ANALYTE / PARAMETER	RESULT	UNITS	REG. LIMIT	MQL	TEST METHOD	ANALYST	DATE	TIME
BTEX								
Benzene	< 0.001	mg/l	--	0.001	SW846.8021B	DMB	01-12-07	15:48
Toluene	< 0.001	mg/l	--	0.001	SW846.8021B	DMB	01-12-07	15:48
Ethylbenzene	< 0.001	mg/l	--	0.001	SW846.8021B	DMB	01-12-07	15:48
Xylenes	< 0.003	mg/l	--	0.003	SW846.8021B	DMB	01-12-07	15:48
Total BTEX	< 0.006	mg/l			SW846.8021B	DMB	01-12-07	15:48
RCI								
Reactive Cyanide	< 50	mg/l	250	50	SW846.7.3.3	LC	01-12-07	14:40
Reactive Sulfide	< 50	mg/l	500	50	SW846.7.3.4	LC	01-12-07	14:45
Corrosivity (Ph)	7.14	su	=>2; =<12.5	--	SW846.9045C	JA	01-12-07	17:00
Ignitability	> 160	°F	> 140	--	SW846.1010	OLC	01-15-07	11:30
METALS (RCRA) - TCLP					SW846.1311	MN	01-12-07	
Arsenic	< 0.02	mg/l	5.00	0.02	SW846.6010B	JK	01-16-07	17:00
Barium	0.88	mg/l	100	0.02	SW846.6010B	JK	01-16-07	17:00
Cadmium	0.02	mg/l	1.00	0.02	SW846.6010B	JK	01-16-07	17:00
Chromium	< 0.02	mg/l	5.00	0.02	SW846.6010B	JK	01-16-07	17:00
Lead	< 0.02	mg/l	5.00	0.02	SW846.6010B	JK	01-16-07	17:00
Selenium	< 0.05	mg/l	1.00	0.05	SW846.6010B	JK	01-16-07	17:00
Silver	0.06	mg/l	5.00	0.05	SW846.6010B	JK	01-16-07	17:00
Mercury	< 0.002	mg/l	0.200	0.002	SW846.7470A	MN	01-15-07	10:00

Definitions:
TCLP - Toxicisity Characteric Leaching Procedure su - Standard Units
REG - Regulatory Limit (User Should Confirm Limi VOC - Volatile Organic Compounds * Burn Time
MQL - Method Quantitation Limit SVOC - Semivolatile Organic Compounds
PPM - Parts Per Million TPH - Total petroleum Hydrocarbons
mg/l - PPM by Volume, mg/kg - PPM by Weight

John Keller

John Keller, Ph.D
Laboratory Director

EPAHO103001971

ENVIRON EXPRESS LABORATORIES, INC.

401 N. 11th. St.
La Porte, TX 77571
281.471.0951 FAX:281.471.5821

CERTIFICATE OF ANALYSIS NO: 61405.01 1of 1

Customer: **CES Env. Svcs.** Sample ID: **Pigs** Environ ID: **61405.01**
Project ID: **Enterprise BX 274160** Sampled: **01-11-07**
Project Loc: **Hwy 1410 - Winnie, TX** Matrix: **Solid** Received: **01-12-07**
Charge/P.O.: Type: **Composite** Reported: **01-17-07**

RECEIVED BASIS

ANALYTE / PARAMETER	RESULT	UNITS	REG. LIMIT	MQL	TEST METHOD	ANALYST	DATE	TIME
BTEX								
Benzene	< 0.005	mg/kg	--	0.005	SW846.8021B	DMB	01-12-07	17:34
Toluene	< 0.005	mg/kg	--	0.005	SW846.8021B	DMB	01-12-07	17:34
Ethylbenzene	< 0.005	mg/kg	--	0.005	SW846.8021B	DMB	01-12-07	17:34
Xylenes	< 0.015	mg/kg	--	0.015	SW846.8021B	DMB	01-12-07	17:34
Total BTEX	< 0.030	mg/kg			SW846.8021B	DMB	01-12-07	17:34
RCI								
Reactive Cyanide	< 50	mg/kg	250	50	SW846.7.3.3	LC	01-12-07	14:30
Reactive Sulfide	< 50	mg/kg	500	50	SW846.7.3.4	LC	01-12-07	14:20
Corrosivity (Ph)	7.39	su	=>2; =<12.5	--	SW846.9045C	JA	01-17-07	08:00
Ignitability	> 160	°F	> 140	--	SW846.1010M	OLC	01-15-07	11:30
METALS (RCRA) - TCLP					SW846.1311	MN	01-12-07	
Arsenic	< 0.02	mg/l	5.00	0.02	SW846.6010B	JK	01-16-07	17:00
Barium	0.91	mg/l	100	0.02	SW846.6010B	JK	01-16-07	17:00
Cadmium	< 0.02	mg/l	1.00	0.02	SW846.6010B	JK	01-16-07	17:00
Chromium	< 0.02	mg/l	5.00	0.02	SW846.6010B	JK	01-16-07	17:00
Lead	< 0.02	mg/l	5.00	0.02	SW846.6010B	JK	01-16-07	17:00
Selenium	< 0.05	mg/l	1.00	0.05	SW846.6010B	JK	01-16-07	17:00
Silver	< 0.05	mg/l	5.00	0.05	SW846.6010B	JK	01-16-07	17:00
Mercury	< 0.002	mg/l	0.200	0.002	SW846.7470A	MN	01-15-07	10:00
PYROPHORIC								
Pyrophoric	Negative	--	--	--	49CFR173.APP.E.3	JK	01-15-07	10:00

Definitions: TCLP - Toxicity Characteric Leaching Procedu su - Standard Units
REG - Regulatory Limit (User Should Confirm LIVOC - Volatile Organic Compounds * Burn Time
MQL - Method Quanitation Limit SVOC - Semivolatile Organic Compounds
PPM - Parts Per Million TPH - Total petroleum Hydrocarbons
mg/l - PPM by Volume, mg/kg - PPM by Weight

John Keller
John Keller, Ph.D
Laboratory Director

EPAHO103001972

CHAIN OF CUSTODY

ENVIRON Express Laboratories

Page 1 of 1

ENVIRON EXPRESS LABORATORIES, INC.
401 North 11th. St. / La Porte, Texas 77571-3115
(281) 471-0951 / (800) 880-0156
Fax: (281) 471-5821 / After Hours: (281) 844-2308
e-mail: environexp@aol.com

Results To: MATT BOWMAN	Invoice To: SAME	TAT (WORKING DAYS) CIRCLE ONE: 1 2 3 5	
Company: CES ENVIRONMENTAL	Company:	LAB LOT #	COC Present? Yes No
Address: 4904 GRIGGS RD	Address:	Shipment Sealed? Yes No	Samples Sealed? Yes No
City: HOUSTON State: TX Zip: 77021	City: State: Zip:	Received on Ice? Yes No	Samples Intact? Yes No
Phone: 713-676-1460	Phone:	Cooler Temp. (°C) 1°	Preservative Shown? Yes No NA
Fax: 713-676-1676	Fax:	Hold Time OK? Yes No	Res. Cl2 Check OK? Yes No NA
e-Mail:	PO#: Quote#:	pH Check OK? Yes No NA	COC & Labels Agree? Yes No

Project Name: ENTERPRISE BOX 274160
Project Location: HWY 1410-WINNIE TX
Project No: 1
Sampler (Print): STEVE STRICKER
Sampler (Sign): [signature]

Sampler Remarks:

[2] Cntr. Type	P
Number	2
Volume	32oz
[3] Preservative	1

Remarks & Additional Analyses

EEL USE ONLY (LAB NO.)	SAMPLE ID.	DATE/TIME SAMPLED	[1] MATRIX	(C)OMP/(G)RAB	BTEX (8021B)	TPH (TX1005.3)	RCI	PAH	TOTAL EPA TCLP VOLATILES	SEMI-VOLS	RCRA 8 METALS	PYROPHORIC
61405.01	1) PIGS	1-11-07 15:00	So	C	X		X				X	X
↓ .02	2) WATER	1-11-07 17:00	Liq	C	X		X				X	
	3)											
	4)											
	5)											
	6)											
	7)											
	8)											
	9)											
	10)											

Relinquished By:	Company:	Date/Time:	Received By:	Company:
[signature]	CES ENVIRONMENTAL	1-12-07- 11:00	John Keller	ENVIRON
Relinquished By:	Company:	Date/Time:	Received By:	Company:
Relinquished By:	Company:	Date/Time:	Received By:	Company:

[1] **Matrix Key**
S:Soil W:Water WW:Waste Water SL:Sludge SO:Solid SE:Sediment L: Leachate WI:Wipe OR:Organic OL:Oil DS:Drum Solid DL:Drum Liquid O:Other _____

[2] **Container Type Key**
P:Plastic G:Glass V:VOA Glass O:Other _____

[3] **Preservative Key**
1:Ice(<4°C) 2:HCL 3:H2SO4 4:HNO3 5:NaOH 6:NaOH+Zn Acetate 7:Na2S2O3 8:None

Delivery of samples constitutes acceptance of Environ's terms and conditions in the Price Schedule.

713 826 1329

1-17-07; 9:32AM;Environ ;2814715821 # 4/ 4

EPAHO103001973

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

TNRCC

ONE-TIME SHIPMENT REQUEST FOR TEXAS WASTE CODE FOR SHIPMENT OF CLASS 1, 2, 3 AND EPA HAZARDOUS WASTE

Pursuant to the generator notification requirements of 30 TAC Section 335.6, the generator of a solid waste is required to submit to the TNRCC detailed written information pertaining to the composition and characteristics of the waste. Please complete all applicable sections. Incomplete forms will delay processing. Assigned waste codes cannot be changed without prior approval from the TNRCC.

Mike Tomerlin
Enterprise Products
PO Box 753
Mont Belvieu, TX 77580

Please type or print legibly:

GENERATOR CONTACT PERSON
GENERATOR COMPANY NAME
GENERATOR MAILING ADDRESS
CITY, STATE, ZIP CODE
PHONE NO. (281)385-4310
FAX NO. (713)676-1676

COMPLETE ONLY IF NOT REGISTERED

Are you industrial? ☒ Yes ☐ No *Are you CESQG? ☒ Yes ☐ No

If industrial, have you submitted TNRCC Initial Notification form (TNRCC-0002)? ☐ Yes ☐ No

Date submitted: _____

COMPLETE ONLY IF REGISTERED

XXX12
Solid Waste Registration No.

U. S. EPA Identification No.

77665901

Generating Site Location (☐ Check if same as above) Hwy 4310, Winnie TX (Yark Charles Pipeline)
(STREET ADDRESS OR PHYSICAL DESCRIPTION)

Designated Treatment, Storage, and/or Disposal Facility Name and Address CES Environmental Services, 4904 Griggs Rd, Houston, TX 77021

DESCRIPTION OF WASTE
(do not use DOT description or trade name)

1. Foam pipeline pigs
2.
3.
4.

TNRCC USE ONLY

For TNRCC Assignment of Texas Waste Code Number	① FORM CODE	② CLASS CODE	③ EPA CODE	④ ORIGIN CODE
FHMM3191	319	1	NA	1

PROCESSED DATE: 5-1-07
PROCESSED BY: Janet Stanfield
TNRCC REGION: Reg. 12 OFFICE

GENERATOR/REPRESENTATIVE

I certify that the above information is correct to the best of my knowledge.

I, Mark Bowman, am employed by:
(NAME, Please Print)

(COMPANY NAME AND MAILING ADDRESS)

CES Environmental
4904 Griggs Rd
Houston, TX 77021

I am authorized to sign this certification for:

Enterprise Products
(COMPANY NAME)

(SIGNATURE)

4-30-07
(DATE)

(713) 676-1460
(PHONE NUMBER)

(713) 676-1676
(FAX NUMBER)

TNRCC-0757 (Rev. 05/02)

TOTAL P.03

EPAHO103001974

Dacon Inc. 2185
Prof # 2185

EPAHO103001975

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/30/2007**

Dear **Kevin White**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2185

Generator: Dacon Inc.
Address: 1300 Underwood Dr
Deer Park, TX 77536

Waste Information

Name of Waste: Unused polyisobutylene
TCEQ Waste Code #: Recycle
Container Type:
Detailed Description of Process Generating Waste:
Unused material
Color: clear/whiate **Odor:** hydrocarbon **pH:** na
Physical State:
Incompatibilities: none
Safety Related Data/Special Handling:
standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

281-479-1815

CES Environmental Services, Inc.
4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company: Dacon Inc.
Address: 1300 Underwood Dr.
City, State, Zip: Deer Park Tx. 77536
Contact: Steven Heaphill Title: Maint. Mgr.
Phone No: 832-298-1104 Fax No: 281-479-1815
24/hr Phone:
U.S. EPA I.D. No: TX CESQ
State I.D. CESQ SIC Code: NA

SECTION 2: Billing Information – ☐ Same as Above

Company: Select Environmental
Address: 223 McCarty Dr.
City, State, Zip: Hou. Tx. 77029
Contact: Vera White Title: Sales
Phone No: 281-960-3967 Fax No: 713-672-4530

SECTION 3: General Description of the Waste

Name of Waste: Unused Polyisobutylene
Detailed Description of Process Generating Waste: Unused material

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Clear / white Odor: Hydrocarbon

Specific Gravity (water=1): .8-.9 Density: 8 lbs/gal

Layers: ☐ Single-phase ☒ Multi-phase

Container Type: ☒ Drum ☐ Tote ☐ Truck ☐ Other (explain)
Container Size: 55 gal.

Frequency: ☐ Weekly ☐ Monthly ☒ Quarterly ☐ Yearly
Number of Units (containers): 8 Other:
Texas State Waste Code No: Recyclable
Proper U.S. DOT Shipping Name: Non-DOT Regulated
Class: UN/NA: PG: RQ:

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
na	na	0 mg/l	0 mg/l	0 %

Oil&Grease	TOC	Zinc	Copper	Nickel
na mg/l	na mg/l	0 mg/l	0 mg/l	0 mg/l

EPAHO103001977

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Polyisobutylene (unused)		100

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.

~~None~~ MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

None

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: /
TCLP Volatiles: /
TCLP Semi-Volatiles: /
Reactivity: /
Corrosivity: /
Ignitability: /

SECTION 9: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☒ MSDS analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 5-7-07

Printed Name/Title: DEAN LEE

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____ Additional Information: $65/drum - dispose as class 1, NON-Haz. or blend with light ends if possible

Date: 5-7-07 (Approved) Rejected

Approval Number: 2185

EPAHO103001978

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001979

MATERIAL SAFETY DATA SHEET

1. Substance and Source Identification

National Institute of Standards and Technology
Standard Reference Materials Program
100 Bureau Drive, Stop 2320
Gaithersburg, Maryland 20899-2320

SRM Number: 2490
MSDS Number: 2490
SRM Name: Non-Newtonian Polymer Solution for Rheological Measurements (Polyisobutylene dissolved in 2,6,10,14-Tetramethylpentadecane)

Date of Issue: 06 January 2006

MSDS Coordinator: Mario Cellarosi
Telephone: 301-975-6776
FAX: 301-926-4751
E-mail: SRMMSDS@nist.gov

Emergency Telephone Chem Trec:
1-800-424-9300 (North America)
+1-703-527-3887 (International)

Description: Standard Reference Material (SRM) 2490 is intended primarily for use in calibration and performance evaluation of instruments used to determine the viscosity and first normal stress difference in steady shear, or to determine the dynamic mechanical storage and loss moduli and shift factors through time-temperature superposition. SRM 2490 consists of a polyisobutylene dissolved in 2,6,10,14-tetramethylpentadecane. One unit of SRM 2490 consists of 100 mL of the solution, which contain a mass fraction of 0.114 polyisobutylene and is packaged in an amber glass bottle.

Substance: **Polyisobutylene dissolved in 2,6,10,14-Tetramethylpentadecane**

2. Composition and Information on Hazardous Ingredients

Component: **Polyisobutylene**

Other Designations: **Polyisobutylene** (2-methyl-1-propene homopolymer; 2-methylpropene polymers; isobutene homopolymer; isobutene polymer; isobutylene homopolymer; isobutylene polymer; polyisobutene; poly [2-methylpropene])

CAS Number: 9003-27-4

EC Number (EINECS): Not assigned.

SRM Nominal Concentration (mass fraction): 11.4 %

Component: **2,6,10,14-Tetramethylpentadecane**

Other Designations: **2,6,10,14-Tetramethylpentadecane** (pristane; robuoy; norphytane)

CAS Number: 1921-70-6

EC Number (EINECS): 217-650-8

SRM Nominal Concentration (mass fraction): 96 %

EC Classification: Xi
EC Risk (R): 36, 37, 38
EC Safety (S): 2, 24, 25, 26, 46
EC Risk/Safety Phrases: See Section 15, "Regulatory Information".

EPAHO103001980

3. HAZARDS IDENTIFICATION

NFPA Ratings (Scale 0–4): Health = 2 Fire = 1 Reactivity = 0

Major Health Hazards: Respiratory tract, skin, and eye irritation.

Potential Health Effects

Inhalation: Inhalation of 2,6,10,14-tetramethylpentadecane may cause severe irritation. Inhalation of high concentrations may be destructive to the respiratory tract and mucous membranes. Symptoms include a burning sensation, coughing, wheezing, headache, nausea, and vomiting.

Skin Contact: Acute exposure of 2,6,10,14-tetramethylpentadecane to the skin may cause irritation. Exposure to high concentrations may be destructive to the skin tissues. Repeated or prolonged exposure may cause dermatitis.

Eye Contact: Acute exposure of 2,6,10,14-tetramethylpentadecane to the eye may cause irritation; high concentrations may be destructive to the eye tissues. Repeated or prolonged exposure may cause conjunctivitis.

Ingestion: Ingestion of 2,6,10,14-Tetramethylpentadecane is harmful. Can be irritating to mouth, throat, and stomach. Symptoms may include nausea, headache, and vomiting.

Listed as a Carcinogen/ Potential Carcinogen:

Yes	No	
____	X	In the National Toxicology Program (NTP) Report on Carcinogens.
____	X	In the International Agency for Research on Cancer (IARC) Monographs.
____	X	By the Occupational Safety and Health Administration (OSHA).

4. FIRST AID MEASURES

Inhalation: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing by qualified personnel. Get immediate medical attention.

Skin Contact: Wash skin with soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if necessary.

Eye Contact: Flush eyes, including under the eyelids, with copious amounts of water for at least 15 minutes. Get immediate medical attention.

Ingestion: If a large amount is swallowed, get immediate medical attention.

5. FIRE FIGHTING MEASURES

Fire and Explosion Hazards: Polyisobutylene and 2,6,10,14-tetramethylpentadecane are slight fire hazards.

Extinguishing Media: Use regular dry chemical, carbon dioxide, water, or regular foam.

Fire Fighting: Move container from fire area if possible without exposure to risk. Do NOT scatter spilled material with high-pressure water streams. Avoid inhalation of material or combustion by-products. Wear full protective clothing and NIOSH-approved self-contained breathing apparatus (SCBA).

EPAHO103001981

Component:	**2,6,10,14-Tetramethylpentadecane**
Flash Point:	> 110 °C (> 230 °F)
Method Used:	Not applicable.
Autoignition Temperature:	Not applicable.
Flammability Limits in Air	
Upper (Volume %):	Not applicable.
Lower (Volume %):	Not applicable.

6. ACCIDENTAL RELEASE MEASURES

Occupational Release:	Absorb with sand or other non-combustible material. Collect in an appropriate container for proper disposal.
Disposal:	See Section 13, "Disposal Considerations".

7. HANDLING AND STORAGE

Storage:	Store and handle in accordance with all current regulations and standards. Store in a tightly closed container. Keep separated from incompatible substances.
Safe Handling Precautions:	See Section 8, "Exposure Controls and Personal Protection".

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure Limits:	No occupational exposure limits established for polyisobutylene or 2,6,10,14-tetramethylpentadecane.
Ventilation:	Use a local exhaust ventilation system.
Respirator:	For conditions of frequent use or heavy exposure where exposure is apparent and engineering controls are not feasible, respirator protection may be needed. Refer to the "NIOSH Guide to the Selection and Use of Particulate Respirators Certified under 42 CFR 84" for selection and use of respirators certified by NIOSH.
Eye Protection:	Wear safety goggles. An eye wash station should be readily available near areas of use.
Personal Protections:	Wear appropriate chemical resistant clothing and gloves to prevent skin exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Component:	**2,6,10,14-Tetramethylpentadecane**
Appearance and Odor:	Liquid. Clear. Faint odor.
Molecular Weight:	268.52 g/mol
Molecular Formula:	$C_{19}H_{40}$
Density:	0.775 g/cm^3 to 0.795 g/cm^3
Solvent Solubility:	Soluble in benzene, carbon tetrachloride, chloroform, ether, organic solvents, and petroleum ether.
Water Solubility:	Insoluble.

EPAHO103001982

10. STABILITY AND REACTIVITY

Stability: _X_ Stable ___ Unstable

Stable at normal temperatures and pressure.

Conditions to Avoid: Avoid heat, flames, sparks, and other sources of ignition. Avoid contact with incompatible materials.

Incompatible Materials: Oxidizing materials.

Fire/Explosion Information: See Section 5, "Fire Fighting Measures".

Hazardous Decomposition: Thermal decomposition or combustion of 2,6,10,14-Tetramethylpentadecane may release oxides of carbon.

Hazardous Polymerization: ___ Will Occur _X_ Will Not Occur

11. TOXICOLOGICAL INFORMATION

Route of Entry: _X_ Inhalation _X_ Skin _X_ Ingestion

Toxicity Data: No data available for 2,6,10,14-tetramethylpentadecane and polyisobutylene.

Carcinogenic, Tumorigenic, Mutagenic Data: 2,6,10,14-Tetramethylpentadecane has been investigated as a tumorigenic effector.

Health Effects (Acute and Chronic): See Section 3, "Hazards Identification".

12. ECOLOGICAL INFORMATION

Ecotoxicity:
2,6,10,14-Tetramethylpentadecane:

Fish Toxicity: Rainbow trout, Donaldson trout (Oncorhynchus mykiss) (physiological): 100 µg/L (7 h)

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose in accordance with federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT and IATA: Not regulated by DOT or IATA.

15. REGULATORY INFORMATION

U.S. Regulations: CERCLA Sections 102a/103 (40 CFR 302.4): Not regulated.

SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

SARA Title III, Section 313 (40 CFR 372.65): Not regulated.

OSHA Process Safety (29 CFR 1910.119): Not regulated.

California Proposition 65: Not regulated.

EPAHO103001983

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21):

ACUTE:	Yes.
CHRONIC:	No.
FIRE:	No.
REACTIVE:	No.
SUDDEN RELEASE:	No.

CANADIAN Regulations: WHMIS Classification: Not determined.

National Inventory Status: U.S. Inventory (TSCA): Polyisobutylene and 2,6,10,14-tetramethylpentadecane are both listed on inventory.

TSCA 12b Export Notification: Not listed.

EC Classification: Xi Irritant

EC Risk and Safety Phrases:

R36	Irritating to eyes.
R37	Irritating to respiratory system.
R38	Irritating to skin.
S2	Keep out of reach of children.
S24	Avoid contact with skin.
S25	Avoid contact with eyes.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S46	If swallowed, seek medical advice immediately and show container or label.

16. Other Information

Sources: MDL Information Systems, Inc., MSDS *2,6,10,14-Tetramethylpentadecane* 16 June 2005.
MDL Information Systems, Inc., MSDS *Polyisobutylene* 19 March 2003.

Disclaimer: Physical and chemical data contained in this MSDS are provided only for use as a guide in assessing the hazardous nature of the material. The MSDS was prepared carefully, using current references; however, NIST does not certify the data in the MSDS. The certified values for this material are given in the NIST Certificate of Analysis.

EPAHO103001984

2186 Soltex - Vertex Processing
Prof # 2186

EPAHO103001985

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/8/2007**

Dear **Kenn Young**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2186

Generator: Soltex-Vertex Processing
Address: 6655 West Bay Road
Baytown, TX 77520

Waste Information

Name of Waste: TPH contaminated soil
TCEQ Waste Code #: FHMG3191
Container Type: 25 yd boxes
Detailed Description of Process Generating Waste:
Virgin contaminated soil w/ThixoCal 7600.
Color: dark **Odor:** none **pH:** na
Physical State:
Incompatibilities: oxidizers
Safety Related Data/Special Handling:
Standard PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

MB

SECTION 1: Generator Information

Company: Soltex
Address: 11155 West Bay Rd
City, State, Zip: Baytown, TX 77520
Contact: Kevin young Title:
Phone No: 281 697 0900 Fax No:
24/hr Phone:
U.S. EPA I.D. No:
State I.D. XXX12 SIC Code:

SECTION 2: Billing Information ☐ Same as Above

Company: Soltex
Address: 3707 FM 1960 West
City, State, Zip: Houston, TX 77068
Contact: Title:
Phone No: Fax No:

SECTION 3: General Description of the Waste

Name of Waste: TPH contaminated soil
Detailed Description of Process Generating Waste: Virgin contaminated soil w/ THYO Cal 7000

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☑ Solid ☐ Filter Cake ☐ Combination

Color: dark Odor: none

Specific Gravity (water=1): NA Density: NA lbs/gal

Layers: ☑ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☑ Other (explain) 25 yard boxes
Container Size:

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☑ Yearly
Number of Units (containers): 2 Other:
Texas State Waste Code No: FHMG3191
Proper U.S. DOT Shipping Name: NON-RCRA/NON DOT Regulated material
Class: NA UN/NA: NA PG: NA RQ: NA

Flash Point >200	pH NA	Reactive Sulfides NA mg/l	Reactive Cyanides NA mg/l	Solids 100 %
Oil&Grease NA mg/l	TOC NA mg/l	Zinc NA mg/l	Copper NA mg/l	Nickel NA mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
soil (dirt, rocks, sand)	98-99	%
Thixo cal 7000	1-2	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

— Standard PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package.

— MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):

— Oxidizers

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generator knowledge:

TCLP Metals: ✓
TCLP Volatiles: ✓
TCLP Semi-Volatiles: ✓
Reactivity: ✓
Corrosivity: ✓
Ignitability: ✓

SECTION 9: Generator's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: [signature] Date: 5-4-07

Printed Name/Title: Ken Young · Operations Mgr

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	Process Facility Information:
Compliance Officer: Rabbahn Thapa Date: 5-8-07 Approved Rejected Approval Number: 2186	$75/yd disposal; $350/load trans. Redirect to Republic.

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge? ☐ YES ☒ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory: Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory: Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103001989

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcategory

☐ Oils Subcategory

☐ Organics Subcategory

SECTION 11: Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103001990

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

ONE-TIME SHIPMENT REQUEST FOR TEXAS WASTE CODE FOR SHIPMENT OF CLASS 1, 2, 3 AND EPA HAZARDOUS WASTE

Pursuant to the generator notification requirements of 30 TAC Section 335.6, the generator of a solid waste is required to submit to the TNRCC detailed written information pertaining to the composition and characteristics of the waste. Please complete all applicable sections. Incomplete forms will delay processing. Assigned waste codes cannot be changed without prior approval from the TNRCC.

Please type or print legibly.

Kenn Young
SolTex
3707 FM 1960 West
Houston, TX 77068

GENERATOR CONTACT PERSON
GENERATOR COMPANY NAME
GENERATOR MAILING ADDRESS
CITY, STATE, ZIP CODE
PHONE NO. 281 587-0900
FAX NO. (713) 676-1676

COMPLETE ONLY IF NOT REGISTERED

Are you Industrial? [X] Yes [ ] No *Are you CESQG? [ ] Yes [ ] No

If industrial, have you submitted TNRCC Initial Notification form (TNRCC-0002)? [ ] Yes [ ] No

Date submitted: _____

COMPLETE ONLY IF REGISTERED

XXX12
Solid Waste Registration No.

U. S. EPA Identification No.

Generating Site Location ([ ] Check if same as above) 6655 West Bay Rd, Baytown, TX 77520
(STREET ADDRESS OR PHYSICAL DESCRIPTION)

Designated Treatment, Storage, and/or Disposal Facility Name and Address CES Environmental Services, 4904 Griggs Rd. Houston, TX 77021

DESCRIPTION OF WASTE
(do not use DOT description or trade name)

1. TPH Contaminated Soil
2.
3.
4.

TNRCC USE ONLY

For TNRCC Assignment of Texas Waste Code Number	(1) FORM CODE	(2) CLASS CODE	(3) EPA CODE	(4) ORIGIN CODE
FHMG3191	319	1	n/a	1

PROCESSED DATE: 4-30-07
PROCESSED BY: Janet Daylett
TNRCC REGION: Reg. 12 OFFICE

GENERATOR/REPRESENTATIVE

I certify that the above information is correct to the best of my knowledge.

I, Matt Barnard, am employed by:
(NAME, Please Print)

(COMPANY NAME AND MAILING ADDRESS)

CES Environmental Services
4904 Griggs Rd
Houston, TX 77021

I am authorized to sign this certification for:

SolTex
(COMPANY NAME)

(SIGNATURE)

4-26-07
(DATE)

(713) 676-1960
(PHONE NUMBER)

(713) 676-1676
(FAX NUMBER)

TNRCC-0757 (Rev 05/02)

EPAHO103001991

SOLTEX

SYNTHETIC OILS & LUBRICANTS
OF TEXAS, INC.

FAX COVER

Date 4/23/07

FROM: Kenn Young
Operations Manager
PHONE: 281-587-0900
FAX: 281-587-1998

TO: Steve
Fax: 713-676-1676

No. of pages: 8 pages including cover

MESSAGE: MSDS for the material at Dome Hydrocarbons

THANK YOU
Kenn Young
Operations Manager

SOLTEX
SYNTHETIC OILS & LUBRICANTS
OF TEXAS, INC.

SOLTEX,INC.

3707 FM 1960 West, Suite 560
Houston, TX 77068
281-587-0900 Fax: 281-587-1998
www.soltexinc.com

February 16, 2007

1. Identification of substance and company.

Trade name: **ThixoCal™ 7600**

Chemical name: modified oil soluble calcium sulfonate, overbased

Company: Soltex, Inc. (Synthetic Oils & Lubricants of Texas, Inc.)
3707 FM 1960 West, Suite 560
Houston, TX 77068
USA

Phone number: 281-587-0900 or 800-275-8580

Emergency phone: 800-424-9300 (CHEMTREC - in USA and Canada)

2. Composition.

Chemical	CAS RN
One or More Oil Soluble Calcium Sulfonates	Trade Secrets
Mineral Spirits	64742-88-7
Calcium Carbonate	471-34-1

3. Hazards Information.

Hazardous Ingredients:
Mineral Spirits (hydrotreated light petroleum distillate) CAS RN: 64742-88-7

Summary of Risks:
Mineral Spirits: Millions of industrial workers in chemical process and allied industries have been exposed to mineral spirits with minimal serious health effects, aside from the drying, defatting (stripping away of your skin's protective fats and emolients), and irritant skin effects. However, overexposure can depress the central nervous system (CNS) with these symptoms: headache, dizziness, drowsiness, intoxication with euphoria, and possibly unconsciousness. Prolonged or repeated skin contact can cause dermatitis due to this mineral spirits' defatting effect or by sensitization.

EU Risk phrases

Symbols:	Xn	Harmful
R phrases:	R10	Flammable
	R65	Harmful may cause lung damage if swallowed
	R38	Irritating to skin

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R36	Irritating to eyes
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Canadian WHIMS:

Class B Division 3 Combustible Liquid

HMIS and NFPA HAZARD INDEX		HMIS and NFPA RATINGS	
Hazardous Materials Identification System	4 - Severe 3 - Serious 2 - Moderate 1 - Slight 0 - Minimal	Health Flammability Reactivity	1 2 0

4. First aid measures.

Immediate treatment:

Eye contact:
May cause eye irritation. Flush with large amounts of water for at least 15 minutes. Call a physician.

Skin contact:
Wash skin thoroughly with soap and water after handling. Prolonged or repeated contact may cause dermatitis (skin irritation).

If hot material contacts skin, immediately cool before attempting removal. Cool with water or ice. Apply topical dressing. Severe blistered burns should be treated by a physician.

Inhalation:
Remove to fresh air. If breathing is difficult, give oxygen and call a physician.

Ingestion:
Contact a physician.

NOTE TO PHYSICIANS

Routes of entry: Eyes, skin, ingestion, inhalation of mist.
Target organs: Eyes, skin, respiratory system., central nervous system
Mineral Spirits: Aspiration of even a few milliliters of mineral spirits can be fatal! The resulting diffused chemical irritation of the lungs can progress to fatal pulmonary edema after aspiring liquid mineral spirits. To prevent their aspiration of freshly vomited solvent, carefully monitor persons who swallow mineral spirits. Consider intubation in treating any significant ingestion.

5. Fire fighting measures.

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Special hazards or procedures:

This product contains Mineral Spirits (Flash point (ASTM D-92): 105°F (41°C)). It is not exceedingly volatile, but will easily burn. Vapors may travel to an ignition source and flash back. Oxides of carbon (CO and CO_2) and sulfur (SO_2) will be given off while burning. This product will float upon water, so water spray is not a suitable extinguishing agent as it may cause fire to spread. See Extinguishing Media.

Protective equipment:
As in any fire, firefighters must be equipped to prevent breathing of vapors or products of combustion. Wear an approved self-contained breathing apparatus and protective clothing.

Extinguishing media:
Dry chemical, water fog, CO_2, foam, or sand/earth. Closed containers may be cooled with water.

6. Accidental release measures.

Procedures for spill clean-up:
Shut off leak and dike up large spills. Eliminate heat and ignition sources, provide optimum explosion-proof ventilation. Absorb with an inert material such as sand, soil or vermiculite. Sweep up absorbent and dispose according to regulatory requirements.

7. Handling and storage.

Handling:
Keep drums tightly closed to prevent contamination. Avoid skin and eye contact. Wear recommended personal protection equipment. Discard or wash contaminated clothing before reuse.
ATTENTION: Never use pressure to empty drums.

Storage:
Maximum storage temperature: below flash point of 105°F (41°C).

8. Exposure control/personal protection.

Ventilation required:
Use additional ventilation if needed to control vapor concentrations particularly if a mist is generated or fumes from hot material are present. Maintain solvent below exposure limits in Section 11. Respiratory protection is required when levels exceed limits.

Respiratory protection:
None required if area adequately ventilated. Use appropriate respiratory protection if used in confined areas or when levels exceed limits. If used in an application where a mist may be generated, observe a TWA/PEL of 5 mg/m^3 (OSHA, ACGIH) for a mineral oil mist. Use a respirator with dual organic vapor/mist and particulates cartridge if vapor concentration exceeds permissible exposure limit.

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Skin protection:
Rubber or plastic solvent resistant gloves and aprons.

Eye protection:
Wear chemical safety goggles and/or a face shield. Contact lenses should not be worn.

9.	**Physical and chemical properties.**	**Typical Values**
	Physical state at 25 °C:	Viscous liquid
	Color:	Tan
	Odor:	Slight, kerosene like
	Changes in physical state at 1 bar:	No data available/none expected
	Vapor pressure at 20 °C (mm Hg):	>2, based upon solvent
	Vapor density (air = 1):	>4, based upon solvent
	Viscosity at 40 °C (SUS):	>100
	Solubility in H_2O at 25 °C:	negligible
	pH (1%):	No data available
	Flash point (ASTM D-92):	105°F (41°C)
	Autoignition temperature:	No data available
	Flammability limits in air:	Lower: 0.7 Upper: 6, based upon solvent
	Volatile (by weight %)	<50%

10. Stability and reactivity.

This product is stable and not subject to hazardous polymerization.

Hazardous decomposition products:

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Oxides of carbon (carbon monoxide carbon dioxide), oxides of hydrogen (water), oxides of sulfur (sulfur dioxide), and oxides of calcium are all formed from burning.

Incompatible materials:
Strong oxidizers such as hydrogen peroxide, oxidizing chlorine and bromine compounds (e.g. chlorine bleach), and chromic acid.

Conditions to avoid:
Oxidizing agents; skin and eye contact.

11. Toxicological information.

Acute toxicity:
May cause eye and skin irritation. The handling procedures and safety precautions in this MSDS should be followed to minimize employee exposure.

mineral oil mist: TWA/PEL of 5 mg/m^3 (OSHA, ACGIH)

mineral spirits: Irritation, redness of skin and eyes; narcotic effects like dizziness, slurred speech, or drunkenness. Ingestion may cause nausea, vomiting, diarrhea, and abdominal pain. After ingestion, the primary concern is aspiration into the lungs. Signs of aspiration pneumonitis include: fever, shortness of breath, increased rate of respiration, and rales (an abnormal rattling sound in the throat). Inhaling this material may cause arrhythmia.

mineral spirits:
OSHA PEL: TWA-air: 500 ppm, 2900 mg/m 3
ACGIH TLV, 1989-90: TLV-TWA: 100 ppm, 525 mg/m 3
NIOSH REL, 1987: 10-hr TWA: 350 mg/m 3 15-min Ceiling: 1800 mg/m 3
Toxicity Data†: Cat, inhalation, LC Lo : 10 g/m 3 /2.5 hr
† See NIOSH, *RTECS*, for additional data with references to irritative effects.

Chronic toxicity for mineral spirits:
None reported in humans.
Carcinogenicity: Neither the NTP, IARC, nor OSHA lists mineral spirits as a carcinogen.

12. Ecological information.

No data available.

13. Disposal considerations.

A hazardous waste (ignitable D001) if disposed of as is, by the definitions of the U.S. EPA. Dispose of properly complying with appropriate laws and regulations.

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www.soltexinc.com

14. Transportation information.

US DOT Ground:
Regulated for transport when shipped in bulk (greater than 118.9 gallons) containers:
Proper shipping Name Combustible Liquid, n.o.s. contains Mineral Spirits
Hazard Class 3 Combustible Liquid, PGIII
ID Number: NA1993
Or if shipped in any size container at temperatures greater than its' flash point (105°F):
Proper shipping Name: Elevated Temperature, Liquid, Flammable, n.o.s.
Hazard Class: 3
ID Number: UN3256, PGIII
US DOT Other Than Ground, Canadian TDG:
This product is not regulated when shipped in containers up to 454 liters. This product is classed as flammable liquid when shipped in containers over 454 liters and will require TDG documentation.
Proper shipping Name for regulated quantities:
Petroleum Products, n.o.s. contains Mineral Spirits
TRANSPORTATION OF DANGEROUS GOODS CLASSIFICATION:
CLASS: 3.3, UN1268, PGIII.

15. Regulatory information.

EU labeling:

Symbols:	Xn	Harmful
R phrases:	R10	Flammable
	R65	Harmful, may cause lung damage if swallowed
	R36	Irritating to eyes
	R38	Irritating to skin
	R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
S phrases :	2	Keep out of reach of children
	36/37/39	'wear suitable clothing protective /wear suitable gloves/wear eye/face protection'
	24/25	'avoid contact with skin/ avoid contact with eyes'
	26	'in case contact of with eyes rinse with plenty of water and seek medical advice'
	28 (soap and water)	'after contact with skin, wash immediately with plenty of "soap and water"'
	43 (never use water)	In case of fire, never use water
	EU labeling:	Continued
	61	Avoid release to the environment
	62	Do not induce vomiting: seek medical advice and show this label

Canadian WHIMS:
Class B Division 3 Combustible Liquid

US OSHA Designations:

SOLTEX
SYNTHETIC OILS & LUBRICANTS
OF TEXAS, INC.

SOLTEX,INC.

3707 FM 1960 West, Suite 560
Houston, TX 77068
281-587-0900 Fax: 281-587-1998
www.soltexinc.com

Mineral Spirits is listed as an Air Contaminant (29 CFR 1910.1000, Subpart Z)
EPA Hazardous Waste Number of D001 as per 40 CFR 261.21 "Characteristic of ignitability" " flash point less than 140 F"

Chemical Inventory Information:
All the components of this product are listed in the following chemical inventories: TSCA (United States) EINECS (European Union), ENCS (Japan), AICS (Australia), DSL (Canada).

16. Other information.

Comments: This product has not been tested in long term, chronic exposure, therefore, the handling procedures and safety precautions in the MSDS should be followed to minimize employee exposure.

Label Information for the United States:
CAUTION: Combustible. May cause skin and eye irritation. Do not swallow. Avoid eye and skin contact. Wash thoroughly after handling. Avoid contact with clothing. Wash clothing before reuse. Keep out of reach of children. Keep containers tightly closed when not in use. Avoid breathing mists or sprays of this product or its solutions.

EMERGENCY FIRST AID PROCEDURES

Eye contact:	Flush with large amounts of water for at least 15 minutes. Call a physician.
Skin contact:	Wash skin thoroughly with soap and water after handling. If hot material contacts skin, immediately cool before attempting removal. Cool with water or ice. Apply topical dressing. Severe blistered burns should be treated by a physician.
Inhalation:	Remove to fresh air. If breathing is difficult, give oxygen and call a physician.
Ingestion:	Call a physician. Induce vomiting if victim is conscious. Never give anything by mouth to an unconscious person.

FOR INDUSTRIAL USE ONLY. SEE SAFETY DATA SHEET FOR DETAILED INFORMATION.
ATTENTION: Never use pressure to empty container, a drum is not a pressure vessel. When empty, drum may have vapor or product residue. Residual vapors may explode on ignition; do not puncture, drill, grind, or weld on or near this container.

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind, express or implied, and we assume no responsibility for any loss, damage, or expense, direct or consequential, arising out of their use. The information shall not be regarded as legally binding assurance of certain properties or suitability for a particular application.

KMCO, Inc 2187
Proof# 2187

EPAHO10300200O

7E
LAB
8-4-09
T-34

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **4/26/2007**

Dear **Bill Glushko**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # 2187

Generator: KMCO, Inc.
Address: 16503 Ramsey Rd.
Crosby, TX 77532

Waste Information

Name of Waste: Dithlodlglycol
TCEQ Waste Code #: Product
Container Type:
Detailed Description of Process Generating Waste:
Unused/out-dated material
Color: Yellow **Odor:** Sulfur Like **pH:** 3-11
Physical State:
Incompatibilities: Oxidizers, Acid
Safety Related Data/Special Handling:
Standard PPE, Respirator

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com
TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Generator Information

Company : KMCO, Inc.
Address : 16503 Ramsey Rd. 16503 Ramsey Road
City, State, Zip : Crosby TX 77532
Contact : Bill Glushko **Title :**
Phone No : (281) 328-3501 **Fax :** 281-328-9528
24 / HR Phone :
U.S EPA I.D No : TXD074198961
State I.D : 31904 **SIC Code**

SECTION 2: Billing Information

Company : KMCO, Inc.
Address : 16503 Ramsey Rd. 16503 Ramsey Road
City, State, Zip : Crosby TX 77532
Contact : Bill Glushko **Title :**
Phone No : (281) 328-3501 **Fax :** 281-328-9528

SECTION 3: General Description of the Waste

Name of Waste : Dithlodlglycol

Detailed Description of Process Generating Waste:

Unused/out-dated material

Physical State : ☑ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color : Yellow **Odor :** Sulfur Like

Specific Gravity (Water=1) : 1.25 **Density :** 10.4 lbs / gal

Layers : ☑ Single-Phas ☐ Multi-Phase

Container Type : ☐ Drum ☐ Tote ☑ Truck ☐ Other (explain)

Container Size :

Number Of Units : 1

Texas State Waste Code No : Product

Proper U.S. State Waste Code No : Non DOT Regulated Material

Class : **UN/NA :** **PG :** **RQ :**

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>200	3-11	NA mg/l	NA mg/l	0 %
Oil and Grease	**TOC**	**Zinc**	**Copper**	**Nickel**
NA mg/l	NA mg/l	NA mg/l	NA mg/l	NA mg/l

EPAHO103002003

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The waste consists of the following materials	Concentration Ranges are acceptable	Units or %
Dithlodlglycol	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.
Standard PPE, Respirator

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the waste approval package.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Oxidizers, Acid

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, WAS NOT PERFORMED based upon the following generators knowledge

TCLP Metals : X
TCLP Volatilies : X
TCLP Semi-Volatiles : X
Reactivity : X
Corrosivity : X
Ignitability : X

SECTION 9: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data. I hereby cerity that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature : N/A **Date :**

Printed Name / Title : NA-Product /

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer : Matt Bowman

Date : 4/26/2007 **Status :** Approved Rejected

Approval Number : 2187

Special Pricing / Analytical Info:
BLEND WITH CES FUEL.
$0.25/gal & $65/hour

Recommended Treatment:

EPAHO103002004

SECTION 10: Waste Receipt Classification Under 40 CFR 437

Is this material a wastewater or wastewater sludge ? ☐ **YES** ☑ **NO**

If 'YES', complete this section

PLEASE CHECK THE APPROPRIATE BOX: IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE

Matals Subcategory: ***Subpart A***

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phospha
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory: ***Subpart B***

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources
- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation wastes
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory ***Subpart C***

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bering wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesive and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

EPAHO103002005

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

☐ Metals Subcatego

☐ Oils Subcatego

☐ Organics Subcategory

SECTION 11: *Additional Instructions*

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

EPAHO103002006

MATERIAL SAFETY DATA SHEET
Rohm and Haas Company

1593
1

1. CHEMICAL PRODUCT AND COMPANY INFORMATION

DTDG

Product Code : 58242
KEY : 833463-6

MSDS Date : 12/21/02

COMPANY IDENTIFICATION

ROHM AND HAAS COMPANY
100 INDEPENDENCE MALL WEST
PHILADELPHIA, PA 19106-2399

EMERGENCY TELEPHONE NUMBERS

HEALTH EMERGENCY : 215-592-3000
SPILL EMERGENCY : 215-592-3000
CHEMTREC : 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

No		CAS REG NO	WEIGHT (%)
1	Dithiodiglycol	1892-29-1	100

3. HAZARDS IDENTIFICATION

Emergency Overview

CAUSES SEVERE EYE IRRITATION. CAUSES SEVERE SKIN IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. MAY CAUSE DIGESTIVE TRACT IRRITATION. INGESTION MAY CAUSE NAUSEA, VOMITING, PAIN, UPSET STOMACH, DIARRHEA.See sections 3, 5, & 6.

Primary Routes Of Exposure

Eye. Skin. Inhalation (breathing).

Eye Contact

Causes severe irritation.

Skin Contact

Causes severe irritation.

Inhalation (Breathing)

Irritating to the eyes, nose, and respiratory tract.

Ingestion (Swallowing)

Irritating to the mouth, throat, and stomach. May cause nausea, vomiting, pain, and stomach upset (e.g., diarrhea).

EPAHO103002007

Target Organs/Chronic Effects

Eyes. Skin.

Conditions Aggravated By Exposure

Eyes. Skin.

Carcinogenicity

	ACGIH	IARC	NTP	OSHA
Dithiodiglycol	No	No	No	No

4. FIRST AID MEASURES

Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes. Get prompt medical attention.

Skin Contact

Immediately flush with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get prompt medical attention. Professionally wash clothing before re-use.

Inhalation (Breathing)

Remove to fresh air. If symptoms develop, seek immediate medical attention. If not breathing, give artificial respiration.

Ingestion (Swallowing)

Seek medical attention. Immediately induce vomiting, as directed by medical personnel. Never give anything by mouth to an unconscious person.

Notes To Physicians

Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy.

5. FIRE FIGHTING METHODS

Flash Point	> 235F 112.7C Setaflash Closed Cup (≈360°F)
Explosive Lmts	LEL(%) Not Determined UEL(%) Not Determined
Autoignition	Not Determined

EPAHO103002008

Hazardous Combustion And Decomposition Products

Smoke, soot, and toxic/irritating fumes (i.e., carbon dioxide, carbon monoxide, etc.). Oxides of sulfur. Hydrogen sulfide.

Fire And Explosion Hazards

During a fire, irritating and highly toxic gases may be generated during combustion or decomposition.

Extinguishing Media

SMALL FIRES: Dry chemical, carbon dioxide, water spray, or foam. LARGE FIRES: Water spray, fog, or alcohol foam.

Fire Fighting Procedures/Equipment

Fire fighters and others who may be exposed to the products of combustion should be equipped with NIOSH-approved positive pressure self-contained breathing apparatus (SCBA) and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Evacuation

Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

Containment

Safely stop discharge. Contain material, as necessary, with a dike or barrier. Stop material from contaminating soil, or from entering sewers or bodies of water.

Clean-Up/Personal Protection Equipment

Appropriate safety measures and protective equipment should be used.

Collection And Disposal

Stop discharge, if safe to do so. Use proper protective equipment. Cover spills with absorbent clay or sawdust and place in closed chemical waste containers. Dispose of according to applicable local, state and federal regulations.

Reporting

Spills of this material in excess of a components's RQ must be reported to the National Response Center (1-800-424-8802) and to the appropriate state and local emergency response organizations. No regulated ingredients.

EPAHO103002009

7. HANDLING AND STORAGE

Storage Conditions

Store in dry, well ventilated area away from heat, ignition sour ces, and direct sunlight. Keep containers tightly closed. Material may solidify at tempeatures less than 80F. Solidified product may be remelted, but do not exceed heating above 120F.

Transfer

No special precautions are needed. Follow good manufacturing and handling practices.

Personal Hygiene

Wash thoroughly after handling, especially before eating, drinking, smoking, and using restroom facilities. Wash contaminated goggles faceshield, and gloves. Professionally launder contaminated clothing before re-use.

Empty Container Precautions

Attention! This container can be hazardous when empty. Follow label warnings even after container is emptied since empty containers may retain product residues. Do not reuse empty container without professional cleaning for food, clothing, or products for human or animal consumption or where skin contact can occur.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

ACGIH - TLV

No regulated ingredients.

OSHA - PEL

No regulated ingredients.

Engineering Controls/Ventilation

Local exhaust ventilation is recommended when vapors, mists, or dusts can be released.

Eye Protection

Wear chemical splash goggles. An eye wash facility should be readily available.

Skin Protection

Wear rubber boots and apron, protective clothing, and impervious gloves. Because a variety of protective gloves exist, consult glove manufacturer to determine the proper type for a specific operation.

EPAHO103002010

Respiratory Protection

Avoid breathing vapor and/or mists. Wear NIOSH/MSHA-approved equipment. Determine the appropriate type by consulting the respirator manufacturer. High airborne concentrations may necessitate the use of self-contained breathing apparatus (SCBA) or a supplied air respirator. Respiratory protection programs must be in compliance with 29 CFR 1910.134. Organic vapor/acid gas respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellow, hygroscopic
Odor	Sulfur like, mild
Physical State	Liquid
Solubility	Dispersible
pH	Approximately 7
Vapor Pressure	0.35 @ 135C
Vapor Density	> 1 Air = 1
Evaporation Rt	< 1 (n-Butyl alcohol)
VOC Material	Not Determined
Specific Grvty	1.25 (Density 10.5 lbs/gal)
%Non-Vol(w/w)	> 99

Viscosity 49 cst @ 104°F

NOTE: The physical data presented above are typical values and should not be construed as a specification.

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions of use.

Hazardous Polymerization

Will not occur.

Conditions To Avoid

Not applicable. Avoid HCl contact.

Incompatibility With Other Materials

Oxidizers. Acids.

11. TOXICITY INFORMATION

Components

Dithiodiglycol:
Causes severe eye irritation.

EPAHO103002011

Oral LD50	Rat - Male	107 mg/kg
	Rat - Female	94 mg/kg .
Dermal LD50	Rabbit	< 2 ml/Kg
Eye Irritation	Rabbit	37.2/110

12. ECOLOGICAL INFORMATION

No data are available on this product.

13. DISPOSAL CONSIDERATIONS

Disposal

Dispose in accordance with all local, state, and federal regulations.

General Statements

Federal regulations may apply to empty container. State and/or local regulations may be different.

General Recommendations

Of the methods of disposal currently available, it is recommended that an alternative be selected according to the following order of preference, based upon environmental acceptability: (1) recycle or rework, if feasible; (2) incinerate at an authorized facility; or (3) treat at an acceptable waste treatment facility.

Special Instructions

Be sure to contact the appropriate government environmental agencies if further guidance is required.

14. TRANSPORT INFORMATION

Weight (lb)	Shipping Name		49 CFR	IATA	IMO
	Non-regulated		Y	Y	Y
DOT Label	Not applicable	UN/NA Id Num	Not Applicable		
DOT Label No	ND	WHMIS Label	D2		

All the information in this section is for non-bulk packagings (119 gallons or less; 882 lbs. or less for solids).

15. REGULATORY INFORMATION

Federal

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

EPAHO103002012

SARA Title III - Section 311/312 - Hazard Categories

N- Fire Hazard
N- Sudden Release of Pressure Hazard
N- Reactivity Hazard
Y- Immediate (acute) Health Hazard
N- Delayed (chronic) Health Hazard

Ozone-Depleting Chemicals

No regulated ingredients.

SARA Section 302 Extremely Hazardous Mat

No regulated ingredients.

SARA Section 313 Toxic Chemicals

No regulated ingredients.

Chemical Listing

Listed on the following Country's Chemical Inventories:
Australia Australian Inventory
Listed.
European Union EINECS (Euro. Inventory of Chem. Subst.)
Listed.
Republic of Korea Korean Inventory
Listed.
United States Toxic Substance Control Act
Chemical component(s) in this product are on the section 8(b) Chemical Substance Inventory List (40 CFR 710).

State Right-To-Know

Pennsylvania - New Jersey R-T-K

Dithiodiglycol	1892-29-1	100

California - California Proposition 65

No regulated ingredients.

CONEG

No data available.

Canada

This is a -controlled product- under the Canadian Workplace Hazardous Materials Information System (WHMIS).
Class D Division 2 Sub-division B

EPAHO103002013

CEPA - NPRI

No regulated ingredients.

RECEIVED
JAN 2 - 2003

Canadian Chemical Inventory

Domestic Substance List

Listed - NDSL.

16. OTHER INFORMATION

Hazard Rating		
	HMIS	NFPA
Health	2*	2
Fire	1	1
Reactivity	0	0

* = Chronic

Product Use

Chemical Intermediate

ABBREVIATIONS:

ACGIH = American Conference of Governmental Industrial Hygienists
OSHA = Occupational Safety and Health Administration
TLV = Threshold Limit Value
PEL = Permissible Exposure Limit
TWA = Time Weighted Average
STEL = Short-Term Exposure Limit
BAc = Butyl acetate

The information contained herein relates only to the specific material identified. Rohm and Haas Company believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information. Rohm and Haas Company urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.

EPAHO103002014

3315

Smith International, Inc.

EPAHO10400001

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/18/2009**

Dear **Mike Boozer MC-35**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3315

Expiration Date 5/14/2011

Generator: Smith International, Inc. (Pearland)
Address: 14713 Jersey Shore
Pearland, TX 77047

Waste Information

Name of Waste: Lubricant
TCEQ Waste Code #: FLTT6961
Container Type: 5 gallon pail
Detailed Description of Process Generating Waste:
Inventory no longer needed
Color: Cream / Clear green **Odor:** Slight / bland **pH:** 6-10
Physical State:
Incompatibilities: OXIDIZING AGENTS
Safety Related Data/Special Handling:
LEVEL D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/18/2009**

Dear **Mike Boozer MC-35**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3313

Expiration Date 5/14/2011

Generator: Smith International, Inc. (Pearland)
Address: 14713 Jersey Shore
Pearland, TX 77047

Waste Information

Name of Waste: Grinding Grit
TCEQ Waste Code #: FLTQ3191
Container Type:
Detailed Description of Process Generating Waste:
Grinding Metal Surfaces
Color: Black/Gray/Brown **Odor:** n/a **pH:** 7-10
Physical State:
Incompatibilities:
Safety Related Data/Special Handling:

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/18/2009**

Dear **Mike Boozer MC-35**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3319

Expiration Date 5/12/2011

Generator: Smith International, Inc. (Pearland)
Address: 14713 Jersey Shore
Pearland, TX 77047

Waste Information

Name of Waste: Floor Glaze
TCEQ Waste Code #: FLTS1191
Container Type: 5 GALLON PAIL
Detailed Description of Process Generating Waste:
Inventory no longer needed.
Color: Opaque white emulsio **Odor:** slight ammonicial odor **pH:** 8.6
Physical State:
Incompatibilities: REACTIVE ALKALI METALS, STRONG ACIDS & BASES
Safety Related Data/Special Handling:
LEVEL D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/18/2009**

Dear **Mike Boozer MC-35**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3319

Expiration Date 5/12/2011

Generator: Smith International, Inc. (Pearland)
Address: 14713 Jersey Shore
Pearland, TX 77047

Waste Information

Name of Waste: Floor Glaze
TCEQ Waste Code #: FLTS1191
Container Type: 5 GALLON PAIL
Detailed Description of Process Generating Waste:
Inventory no longer needed.
Color: Opaque white emulsio **Odor:** slight ammonicial odor **pH:** 8.6
Physical State:
Incompatibilities: REACTIVE ALKALI METALS, STRONG ACIDS & BASES
Safety Related Data/Special Handling:
LEVEL D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/18/2009**

Dear **Mike Boozer MC-35**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3317

Expiration Date 5/12/2011

Generator: Smith International, Inc. (Pearland)
Address: 14713 Jersey Shore
Pearland, TX 77047

Waste Information

Name of Waste: Lithium Grease
TCEQ Waste Code #: FLTP6961
Container Type:
Detailed Description of Process Generating Waste:
inventory no longer needed
Color: Copper / Red **Odor:** Slight Petroleum **pH:** 5-9
Physical State:
Incompatibilities: Strong Oxidizers & acids
Safety Related Data/Special Handling:
LEVEL D

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

CES Environmental Services, Inc.

4904 Griggs Road
Houston TX 77021
Tel. (713) 676-1460
Fax. (713) 676-1460

Waste Pre-Acceptance/Approval Letter

Date **5/18/2009**

Dear **Mike Boozer MC-35**

Thank you for choosing CES Environmental Services, Inc. for you waste disposal and/or recycling needs. The following waste stream has been approved at our facility in Houston, TX. If the waste received does not conform to the profile, then rejection or additional charges may apply.

CES Profile # HOU-3314

Expiration Date 5/14/2011

Generator: Smith International, Inc. (Pearland)
Address: 14713 Jersey Shore
Pearland, TX 77047

Waste Information

Name of Waste: Soap
TCEQ Waste Code #: product
Container Type:
Detailed Description of Process Generating Waste:
inventory no longer needed
Color: varies **Odor:** pleasant **pH:** >12
Physical State:
Incompatibilities:
Safety Related Data/Special Handling:
Corrosive PPE

If you have any questions concerning this approval and/or the conditions, then please feel free to contact our office at (713) 676-1460.

Thank you,

Matt Bowman, President
CES Environmental Services, Inc.

#3313 JR/GB

Ticket too high to be class 2
15

CES Environmental Services, Inc.

☑ CES Environmental Services - Houston Facility	☐ CES Environmental Services - Port Arthur Facility
4904 Griggs Road, Houston, TX 77021	2420 S. Gulfway Dr., Port Arthur, TX 77641
Phone (713) 676-1460 Fax: (713) 676-1460	Phone (713) 676-1460 Fax: (713) 676-1460
U.S. EPA ID Number: TXD008950461 ISWR Number: 30900	U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
TCEQ Industrial Solid Waste Permit Number: 30948	

SECTION 1: Generator Information

Company: Smith International, Inc.
Address: 14713 Jersey Shore
City: Pearland **State:** TX **Zip:** 77047
Contact: Tyra Garacci **Title:** Environmental Specialist
Phone Number: 713-305-5722 **Fax Number:**
24/hr Phone Number: 281-443-3370
US EPA ID No: ~~CESQG~~
State ID No: ~~CESQG~~ XXC12 **SIC Code:** 1389

SECTION 2: Billing Information - ☐ **Same as Above**

Company: Smith International
Address: P.O. Box 60068; 16740 Hardy Street
City: Houston **State:** TX **Zip:** 77205-0068
Contact: Stephanie Dvorak **Title:**
Phone Number: 281-233-5838 **Fax Number:** 281-233-5620

SECTION 3: General Description of the Waste

Name of Waste: Grinding Grit
Detailed Description of Process Generating Waste:

Grinding metal surfaces

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☑ Solid ☐ Filter Cake ☐ Combination

Color: Black / Grey / Brown **Odor:**

Specific Gravity (water=1): N/A **Density:** N/A lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☑ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☑ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☑ No

Answer "Yes" if your waste contains benzene **AND** if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☐ Single-phase ☑ Multi-phase

Container Type: ☑ Drum ☐ Tote ☐ Truck ☐ Other (explain)

Frequency: ☐ Weekly ☐ Monthly ☐ Yearly ☑ One-Time
Quantity: 4

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ☐ Yes ☑ No
If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009 ☐ D010 ☐ D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☑ No
If "Yes", then please list ALL applicable codes: _____

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☑ No
If "Yes", then please list ALL applicable codes: _____

Texas State Waste Code Number: ~~CFSO3197~~ FLTQ3191

Proper US DOT Shipping Name: Non-Hazardous, Non-Regulated Liquid (Blast grit)
Class: _____ **UN/NA:** _____ **PG:** _____ **RQ:** _____

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>140		7-10		BRL	mg/l	BRL	mg/l	100	%
Oil & Grease		**TOC**		**Zinc**		**Copper**		**Nickel**	
>1500	mg/l	>1500	mg/l	BRL	mg/l	BRL	mg/l	BRL	mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Metal Fines	0-10	%
Grinding Rocks	80-90	%
Water	5-20	%
		%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. Lab Analysis - TX-HOU-JS-GRIND-1

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

none known

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS PERFORMED** ~~based upon the following generator knowledge:~~

TCLP Metals:	BRL
TCLP Volatiles:	BRL
TCLP Semi-Volatiles:	BRL
Reactivity:	NON
Corrosivity:	NON
Ignitability:	>140F

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge? ☐ YES ☑ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory : Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory : Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory **: *Subpart C***

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☐ generator knowledge and/or ☑ analytical data.
I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of compostion properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 5/11/2009

Printed Name/Title: Tyra Garacci - Environmental Specialist

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____
Date: 5-14-09 ☑ Approved ☐ Rejected
Approval Number: _____

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

$50 / 55 GAL DRUM

2. Contamination Limit (maximum limit before surchages apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

Bulk to Class 1 box

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

8. Management for Product Recovered/Recycled (if applicable)

Blast Grit

D-4, 5, 6, 7

DHL Analytical

Date: 11/26/08

CLIENT:	SMITH INTERNATIONAL	Client Sample ID:	TX-HOU-JS-GRIND-1
Project:	TX-HOU-JS1-GRIND-1	Lab ID:	0811129-01
Project No:		Collection Date:	11/18/08 10:22 AM
Lab Order:	0811129	Matrix:	Solid

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Benzene	ND	0.00200	0.0100		mg/L	10	11/25/08 03:53 PM
Carbon tetrachloride	ND	0.00200	0.0100		mg/L	10	11/25/08 03:53 PM
Chlorobenzene	ND	0.00200	0.0100		mg/L	10	11/25/08 03:53 PM
Chloroform	ND	0.00300	0.0100		mg/L	10	11/25/08 03:53 PM
Hexachlorobutadiene	ND	0.0100	0.0300		mg/L	10	11/25/08 03:53 PM
Tetrachloroethene	ND	0.00300	0.0100		mg/L	10	11/25/08 03:53 PM
Trichloroethene	ND	0.00300	0.0100		mg/L	10	11/25/08 03:53 PM
Vinyl chloride	ND	0.00100	0.0100		mg/L	10	11/25/08 03:53 PM
Surr: 1,2-Dichloroethane-d4	97.7	0	72 - 119		%REC	10	11/25/08 03:53 PM
Surr: 4-Bromofluorobenzene	103	0	76 - 119		%REC	10	11/25/08 03:53 PM
Surr: Dibromofluoromethane	99.3	0	85 - 115		%REC	10	11/25/08 03:53 PM
Surr: Toluene-d8	99.4	0	81 - 120		%REC	10	11/25/08 03:53 PM
Ignitability		**SW1010**					**Analyst: JBC**
Ignitability	> 100	0	0		°C	1	11/20/08 01:25 PM
pH of Solid (Corrosivity)		**SW9045C**					**Analyst: JBC**
pH	8.44	0	0		pH Units	1	11/20/08 01:00 PM
Reactivity (Cyanide & Sulfide)		**Reactivity**					**Analyst: AAD**
Reactive Cyanide	ND	0.0998	0.200		mg/Kg	2	11/20/08 04:31 PM
Reactive Sulfide	ND	20.0	20.0		mg/Kg	1	11/20/08 03:35 PM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

CLIENT:	SMITH INTERNATIONAL	Client Sample ID:	TX-HOU-JS-GRIND-1
Project:	TX-HOU-JS1-GRIND-1	Lab ID:	0811129-01
Project No:		Collection Date:	11/18/08 10:22 AM
Lab Order:	0811129	Matrix:	Solid

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Tx1005 TPH Soil		**TX1005**					**Analyst: JAW**
T/R Hydrocarbons: C6-C12	ND	6.84	19.5		mg/Kg	1	11/21/08 03:10 PM
T/R Hydrocarbons: >C12-C28	515	6.84	19.5		mg/Kg	1	11/21/08 03:10 PM
T/R Hydrocarbons: >C28-C35	203	6.84	19.5		mg/Kg	1	11/21/08 03:10 PM
T/R Hydrocarbons: C6-C35	718	6.84	19.5		mg/Kg	1	11/21/08 03:10 PM
Surr: Isopropylbenzene	89.6	0	70 - 130		%REC	1	11/21/08 03:10 PM
Surr: Octacosane	197	0	70 - 130	S	%REC	1	11/21/08 03:10 PM
TCLP Mercury		**SW1311/7470A**					**Analyst: LM**
Mercury	ND	0.000800	0.00200		mg/L	1	11/25/08 04:32 PM
TCLP Metals		**SW1311/6020**					**Analyst: AJR**
Antimony	ND	0.00800	0.0250		mg/L	1	11/24/08 05:11 PM
Arsenic	0.0205	0.0200	0.0600	J	mg/L	1	11/24/08 05:11 PM
Barium	0.161	0.0300	0.100		mg/L	1	11/24/08 05:11 PM
Beryllium	ND	0.00300	0.0100		mg/L	1	11/24/08 05:11 PM
Cadmium	ND	0.00300	0.0100		mg/L	1	11/24/08 05:11 PM
Chromium	ND	0.0200	0.0600		mg/L	1	11/24/08 05:11 PM
Lead	ND	0.00300	0.0100		mg/L	1	11/24/08 05:11 PM
Nickel	19.8	0.0300	0.100		mg/L	1	11/24/08 05:11 PM
Selenium	ND	0.0200	0.0600		mg/L	1	11/24/08 05:11 PM
Silver	ND	0.0100	0.0200		mg/L	1	11/24/08 05:11 PM
TCLP Semi-Volatiles		**SW1311/8270C**					**Analyst: DO**
1,4-Dichlorobenzene	ND	0.0100	0.0400		mg/L	1	11/25/08 03:47 AM
2,4,5-Trichlorophenol	ND	0.0100	0.0400		mg/L	1	11/25/08 03:47 AM
2,4,6-Trichlorophenol	ND	0.0100	0.0400		mg/L	1	11/25/08 03:47 AM
2,4-Dinitrotoluene	ND	0.0100	0.0400		mg/L	1	11/25/08 03:47 AM
2-Methylphenol	0.0100	0.0100	0.0400	J	mg/L	1	11/25/08 03:47 AM
3&4-Methylphenol	ND	0.0100	0.0400		mg/L	1	11/25/08 03:47 AM
Hexachlorobenzene	ND	0.0100	0.0400		mg/L	1	11/25/08 03:47 AM
Hexachlorobutadiene	ND	0.0100	0.0400		mg/L	1	11/25/08 03:47 AM
Hexachloroethane	ND	0.0100	0.0400		mg/L	1	11/25/08 03:47 AM
Nitrobenzene	ND	0.0200	0.0400		mg/L	1	11/25/08 03:47 AM
Pentachlorophenol	ND	0.0200	0.0400		mg/L	1	11/25/08 03:47 AM
Pyridine	ND	0.0400	0.100		mg/L	1	11/25/08 03:47 AM
Surr: 2,4,6-Tribromophenol	124	0	75 - 144		%REC	1	11/25/08 03:47 AM
Surr: 2-Fluorobiphenyl	70.5	0	64 - 136		%REC	1	11/25/08 03:47 AM
Surr: 2-Fluorophenol	83.5	0	40 - 119		%REC	1	11/25/08 03:47 AM
Surr: 4-Terphenyl-d14	112	0	67 - 145		%REC	1	11/25/08 03:47 AM
Surr: Nitrobenzene-d5	69.2	0	53 - 130		%REC	1	11/25/08 03:47 AM
Surr: Phenol-d6	75.0	0	30 - 130		%REC	1	11/25/08 03:47 AM
TCLP Volatiles		**SW1311/8260B**					**Analyst: KW**
1,1-Dichloroethene	ND	0.00200	0.0100		mg/L	10	11/25/08 03:53 PM
1,2-Dichloroethane	ND	0.00300	0.0100		mg/L	10	11/25/08 03:53 PM
1,4-Dichlorobenzene	ND	0.00300	0.0100		mg/L	10	11/25/08 03:53 PM
2-Butanone	ND	0.0500	0.150		mg/L	10	11/25/08 03:53 PM

Qualifiers:

	See Final Page of Report for MQLs and MDLs
B	Analyte detected in the associated Method Blank
C	Sample Result or QC discussed in the Case Narrative
DF	Dilution Factor
E	TPH pattern not Gas or Diesel Range Pattern
J	Analyte detected between SDL and RL
N	Parameter not NELAC certified
ND	Not Detected at the SDL
RL	Reporting Limit (MQL adjusted for moisture and sample size)
S	Spike Recovery outside control limits
SDL	Sample Detection Limit

#3315 JR 1GB OSL

CES Environmental Services, Inc.

☑ CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	☐ CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585

SECTION 1: Generator Information

Company: Smith International, Inc.
Address: 14713 Jersey Shore
City: Pearland **State:** TX **Zip:** 77047
Contact: Tyra Garacci **Title:** Environmental Speciallist
Phone Number: 713-305-5722 **Fax Number:**
24/hr Phone Number: 281-443-3370
US EPA ID No: ~~CESQG~~
State ID No: CESQG XXX12 **SIC Code:** 1389

SECTION 2: Billing Information - ☐ **Same as Above**

Company: Smith International
Address: P.O. Box 60068; 16740 Hardy Street
City: Houston **State:** TX **Zip:** 77205-0068
Contact: Tyra Garacci **Title:**
Phone Number: 281-233-5346 **Fax Number:** 281-233-5620

SECTION 3: General Description of the Waste

Name of Waste: Lubricant
Detailed Description of Process Generating Waste:

Inventory no longer needed.

Physical State: ☑ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Cream / Clear Green **Odor:** Slight / Bland

Specific Gravity (water=1): 0.9 **Density:** 7.506 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☑ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☑ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☑ No

Answer "Yes" if your waste contains benzene **AND** if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☑ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☑ Other (explain) 5 gal. pail

Frequency: ☐ Weekly ☐ Monthly ☐ Yearly ☑ One-Time
Quantity: 4

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ☐ Yes ☑ No
If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009 ☐ D010 ☐ D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☑ No
If "Yes", then please list ALL applicable codes: _____

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☑ No
If "Yes", then please list ALL applicable codes: _____

Texas State Waste Code Number: ~~CESQ6961~~ PLTT69Q1

Proper US DOT Shipping Name: Non-Hazardous, Non-Regulated Material (Lubricants)
Class: _____ **UN/NA:** _____ **PG :** _____ **RQ:** _____

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>140		6-10		BRL	mg/l	BRL	mg/l	0	%
Oil & Grease		**TOC**		**Zinc**		**Copper**		**Nickel**	
>1500	mg/l	>1500	mg/l	BRL	mg/l	BRL	mg/l	BRL	mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
PL Lubricant	0-100	%
Cooledge 6600	0-100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. MSDSs

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

Oxidizing agents

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge: MSDS

TCLP Metals:	BRL
TCLP Volatiles:	BRL
TCLP Semi-Volatiles:	BRL
Reactivity:	NON
Corrosivity:	NON
Ignitability:	>140F

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge? ☐ YES ☑ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory*: *Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory*: *Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

***Organics Subcategory*: Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data.
I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of compostion properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: Tyra Gorace **Date:** 5/11/09

Printed Name/Title: Smith International Inc. - Environmental Spec.

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer:
Date: 5-14-09 ☑ Approved ☐ Rejected
Approval Number:

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

Charge $30 / 5 GAL DM, Pay $0.20 / gallon in 55 GAL DM

2. *Contamination Limit (maximum limit before surchages apply):*

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

RECYCLE - BASE OIL

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

8. Management for Product Recovered/Recycled (if applicable)

1310 Seaboard Industrial Blvd.
Atlanta, GA 30318
1-877-I-BUY-ZEP (428-9937)
www.zep.com

Material Safety Data Sheet
and Safe Handling and Disposal Information

SC-10

Section 1. Chemical Product and Company Identification

Product name PL LUBRICANT
Product use Industrial Lubricant
Product code 0365
Date of issue 03/19/07 **Supersedes** 06/23/00

Emergency Telephone Numbers

For MSDS Information:
Compliance Services 1-877-I-BUY-ZEP (428-9937)

For Medical Emergency
INFOTRAC: (877) 541-2016 Toll Free - All Calls Recorded

For Transportation Emergency
CHEMTREC: (800) 424-9300 - All Calls Recorded
In the District of Columbia (202) 483-7616

Printing date: 07/31/08

Prepared By
Compliance Services
1420 Seaboard Industrial Blvd.
Atlanta, GA 30318

Section 2. Composition, Information on Ingredients

Name of hazardous ingredients	CAS #	% by Weight	Exposure Limits
OSHA's Hazard Communication Standard (29 CFR 1910.1200) does not require the listing of any ingredient for this product.		60	mineral oil

Section 3. Hazards Identification

HMIS

	1
	0
Reactivity	0
Personal Protection	B

Acute Effects **Routes of Entry** Eye contact.

Skin No known acute effects of this product resulting from skin contact.

Eyes May cause eye irritation. Inflammation of the eye is characterized by redness, watering and itching.

Inhalation No known acute effects of this product resulting from inhalation.

Ingestion Harmful if swallowed.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse health effects are lessened by following all prescribed safety precautions, including use of proper personal protective equipment.

Carcinogenic Effects Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Chronic Effects Repeated or prolonged exposure is not known to aggravate any medical condition.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact In case of contact, immediately flush skin with plenty of water. Get medical attention if irritation develops.

Inhalation Inhalation not likely under normal use conditions.

Ingestion Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point Not applicable. **Flammable Limits** Not applicable.

Flammability Not applicable.

Fire hazard Not applicable.

Fire-fighting procedures Not applicable.

Section 6. Accidental Release Measures

Spill Clean up Absorb with an inert material and transfer the spilled material and absorbent to an appropriate waste disposal container.

Section 7. Handling and Storage

Handling Avoid contact with eyes. Do not ingest. Wash thoroughly after handling.

Storage Keep container tightly closed. Keep away from heat and direct sunlight. Keep container in a cool, well-ventilated area. Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection

	Personal Protection	Protective Clothing (Pictograms)
Eyes	Safety glasses.	
Body	Recommended: Neoprene gloves. Nitrile gloves.	
Respiratory	No special ventilation requirements.	

Section 9. Physical and Chemical Properties

Physical State	Liquid. (Cream.)	**Color**	Gray.
pH	Not applicable.	**Odor**	Bland.
Boiling Point	371.11°C (700°F)	**Vapor Pressure**	Not available.
Specific Gravity	0.9 (Water = 1)	**Vapor Density**	Not available.
Solubility	Insoluble in the following materials: cold water, hot water.	**Evaporation Rate**	Not available.
		VOC (Consumer)	Not available.

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility	Slightly reactive to reactive with oxidizing agents.
Hazardous Polymerization	Will not occur.
Hazardous Decomposition Products	carbon oxides (CO, CO_2), sulfur oxides (SO_2, SO_3 etc.)

Section 11. Toxicological Information

Toxicity to Animals Not available.

Section 12. Ecological Information

Ecotoxicity	Not available.
Biodegradable/OECD	Not available.

Section 13. Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Stream Non-hazardous waste

Consult your local or regional authorities.

Section 14. Transport Information

Proper shipping name None assigned.

DOT Classification Not a DOT controlled material (United States).

UN number Not regulated.

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

TDG Classification Not a TDG-controlled material.

Section 15. Regulatory Information

U.S. Federal Regulations

SARA 313 toxic chemical notification and release reporting:
No products were found.

Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

All Components of this product are listed or exempt from listing on TSCA inventory.

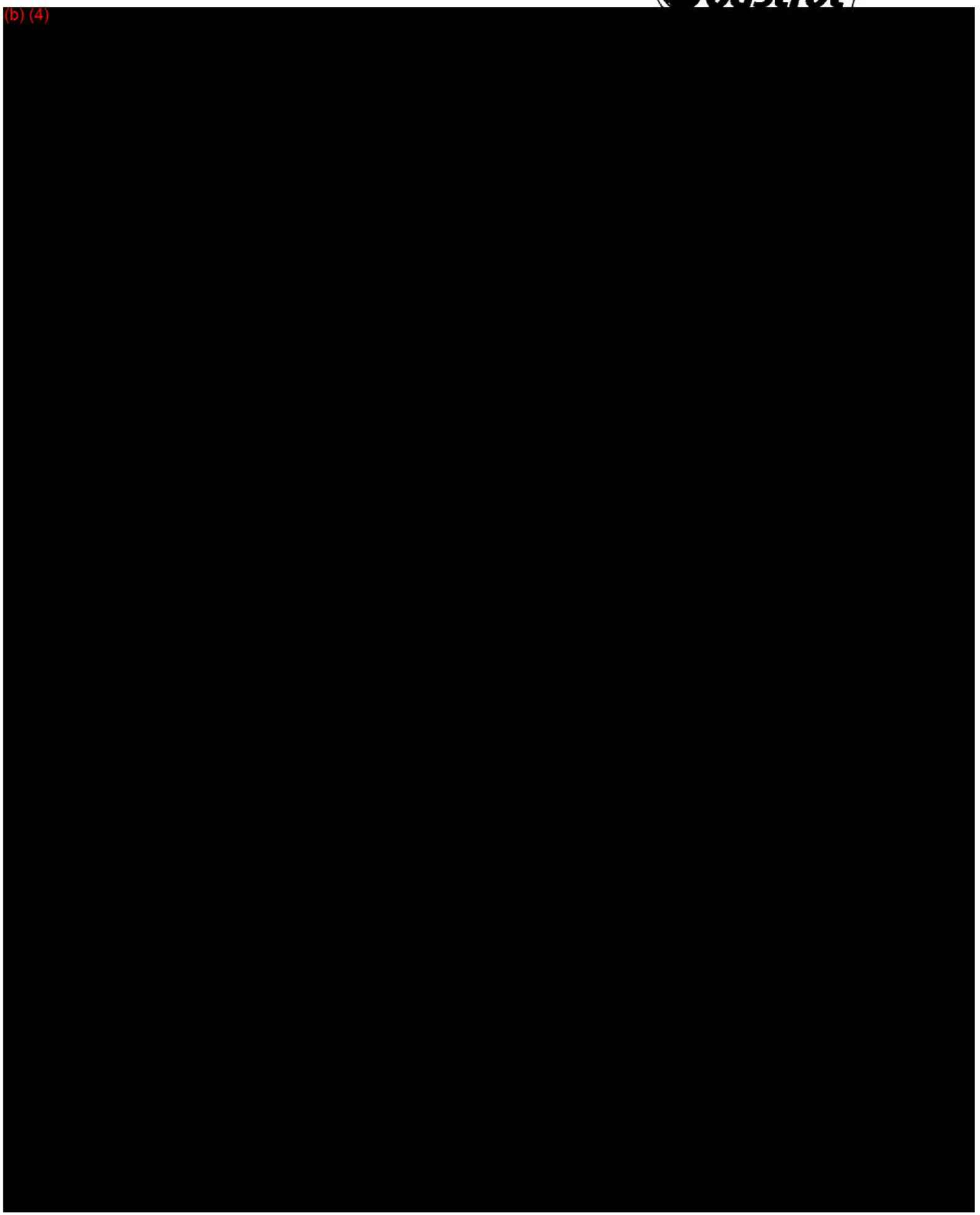
State Regulations California Prop. 65: No products were found.

WHMIS (Canada) Not controlled under WHMIS (Canada).

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

(b) (4)



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#3319

JR 1/6/13 Ordered 12

CES Environmental Services, Inc.

☑ CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	☐ CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585

SECTION 1: Generator Information

Company: Smith International, Inc.
Address: 14713 Jersey Shore
City: Pearland **State:** TX **Zip:** 77047
Contact: Tyra Garacci **Title:** Environmental Specialist
Phone Number: 713-305-5722 **Fax Number:**
24/hr Phone Number: 281-443-3370
US EPA ID No: ~~CESQG~~
State ID No: ~~CESQG~~ XXF12 **SIC Code:** 1389

SECTION 2: Billing Information - ☐ **Same as Above**

Company: Smith International
Address: P.O. Box 60068; 16740 Hardy Street
City: Houston **State:** TX **Zip:** 77205-0068
Contact: Tyra Garacci **Title:**
Phone Number: 281-233-5346 **Fax Number:** 281-233-5620

SECTION 3: General Description of the Waste

Name of Waste: Floor Glaze
Detailed Description of Process Generating Waste:

Inventory no longer needed.

Physical State: ☑ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Opaque white emulsion **Odor:** Slight ammonical odor

Specific Gravity (water=1): 1.04 **Density:** 8.6 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☑ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☑ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☑ No

Answer "Yes" if your waste contains benzene **AND** if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☑ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☑ Other (explain) 5 gal. pail

Frequency: ☐ Weekly ☐ Monthly ☐ Yearly ☑ One-Time
Quantity: 1

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ☐ Yes ☑ No
If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)
Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009 ☐ D010 ☐ D011
Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☑ No
If "Yes", then please list ALL applicable codes:

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☑ No
If "Yes", then please list ALL applicable codes:

Texas State Waste Code Number: ~~EE5Q1191~~ FLTS1191

Proper US DOT Shipping Name: Non-Hazardous, Non-Regulated Liquid (Floor Glaze)
Class: _____ UN/NA: _____ PG: _____ RQ: _____

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>140		8.6		BRL	mg/l	BRL	mg/l	10-30	%
Oil & Grease		**TOC**		**Zinc**		**Copper**		**Nickel**	
>1500	mg/l	>1500	mg/l	BRL	mg/l	BRL	mg/l	BRL	mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
PI1720-VP	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. MSDS

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

Reactive alkali metals, strong acids & bases.

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge: MSDS

TCLP Metals:	BRL
TCLP Volatiles:	BRL
TCLP Semi-Volatiles:	BRL
Reactivity:	NON
Corrosivity:	NON
Ignitability:	>140F

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge? ☐ YES ☑ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory **: *Subpart A***

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory **: *Subpart B***

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

***Organics Subcategory*: Subpart C**

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data.
I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of compostion properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 5/11/2009

Printed Name/Title: Tyra Garacci Smith International Inc. - Environmental Specialist

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____
Date: 5-14-09 ☑ Approved ☐ Rejected
Approval Number: _____

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

$30 / 5 GAL DRUM

2. Contamination Limit (maximum limit before surchages apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

System 1

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

8. Management for Product Recovered/Recycled (if applicable)

Floor Glaze SC-1,2

MSDS Information

Section 1. CHEMICAL PRODUCT SECTION

Product Name: Vinyl Plastics Static Control Floor Glaze
Product Number: PL1720-VP
General Use: Floor finish for static sensitive areas
Product Description:

MANUFACTURER: Tech Spray, Inc.
P.O. Box 949
Amarillo, TX 79105-0949
PHONE: 806/372-8523
FAX: 806/372-8750

For Chemical Emergency, Spill, Leak, Fire Exposure, or Accident Call CHEMTREC DAY OR NIGHT 1-800-424-9300.

Section 2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL	C.A.S. Number	Weight %
Tributoxyethyl Phosphate	78-51-3	< 1
Diethylene Glycol Monomethyl Ether	111-77-3	3-4
Dipropylene Glycol Methyl Ether	34590-94-8	< 1
Octylphenoxpolyethoxyethanol	9036-19-5	<< 1
Nonylphenoxypolyethoxyethanol	68412-54-4	<< 1
Zinc Oxide Complex	1314-13-2	<< 1
Ammonium Hydroxide	1336-21-6	.1
Dibutyl Phthalate	84-74-2	.89
Acrylic Copolymer	25987-66-0	10-15
NJ trd. sec.#00850201001-5391P		< 5
Perfluoroalkyl Phosphates		<< 1
Deionized Water	7732-18-5	75-85
Polyethylene Polymer		< 3

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200):

	Exposure Limits 8 Hours TWA (PPM) OSHA PEL	ACGIH TLV	Supplier
Tributoxyethyl Phosphate		NIF	
Diethylene Glycol Monomethyl		NIF	
Dipropylene Glycol Methyl Ether	100	100	
Ammonium Hydroxide		25	
Dibutyl Phthalate	5mg/m3		
Perfluoroalkyl Phosphates	NIF		

Section 3. HAZARD IDENTIFICATION

Emergency Overview:
Potential Health Effects:

INHALATION: Inhalation of vapors will not likely cause any effects of exposure.

EYES: Due to the high pH, this product is a moderate eye irritant.

SKIN: Slight irritation possible.

INGESTION: Nausea and diarrhea are possible.

Section 4. FIRST AID MEASURES

Inhalation:

EPAHO104000036

Move to fresh air in case of accidental inhalation of vapors. If victim has stopped breathing, give artificial respiration. Call for prompt medical attention.

Eye Contact:
Flush eyes with large amounts of water for 15 minutes or until irritation subsides. If irritation persists, get medical attention.

Skin Contact:
Remove contaminated clothing (including shoes) and wash before reuse. Flush with large amounts of water. Use soap if available. If irritation persists, seek medical attention.

Ingestion:
Do not induce vomiting unless directed by a physician. If conscious and alert, give two glasses of water. Seek medical attention immediately.

Section 5. FIRE FIGHTING MEASURES

Flash Point & Method: None TCC Method
Flammable Limits: LEL: NA UEL: NA
Autoignition Temperature:

GENERAL HAZARD:
None

FIRE FIGHTING INSTRUCTIONS:
Fire fighters should wear self contained, positive-pressure breathing apparatus and avoid skin contact.

FIRE FIGHTING EQUIPMENT:
Water, foam, dry chemical, carbon dioxide.

HAZARDOUS COMBUSTION PRODUCTS:
Smoke, fumes and oxides of carbon.

Section 6. ACCIDENTAL RELEASE MEASURES

LAND SPILL:
Pick up material and place in sealed container for disposal.

WATER SPILL:

Section 7. HANDLING AND STORAGE

STORAGE TEMPERATURE: Ambient
STORAGE PRESSURE: Atmospheric

GENERAL:
Keep container closed when not in use. Store in cool, well ventilated place out of direct sunlight and away from incompatible materials. (See STABILITY AND REACTIVITY Section 10.) Follow all MSD Sheet and Label warnings even after container is emptied.

Section 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Engineering Controls:
(X) Local Exhaust ventilation acceptable.
( ) Mechanical ventilation recommended.
( ) Use explosion-proof ventilation equipment.
( ) Do not use in confined spaces without mechanical ventilation equipment.
See section 2 for component exposure guidelines.

Personal Protection:
RESPIRATOR:

EPAHO104000037

If concentrations are over the exposure limit and are known, air purifying respirator with Organic Vapor Cartridges may be acceptable. Refer to cartridges for acceptable levels. If concentrations are over exposure limit and are unknown, use a supplied air respirator.

HAND PROTECTION:
(X) Gloves recommended
(X) Solvex (X) Neoprene
(X) Butyl (X) Buna
(X) Natural Latex ( ) Cotton/Jersey

EYE PROTECTION:
(X) Safety Glasses ( ) Chemical Goggles ( ) Full Face Shield

OTHER RECOMMENDATIONS:

( ) Rubber Boots ( ) Splash-proof chemical resistant suit/apron

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Density	1.004	pH	8.6
Boiling Point	100C / 212F	% Volatile	80
Freezing Point	NIF	% Solids	20
Vapor Density (Air=1)	NIF	Evaporation Rate (H2O=1)	NIF
Solubility in Water	50	Viscosity	N/A
Molecular Weight	N/A	Physical State	LIQUID
Non-Exempt VOC (g/l)	54.1	Odor	NIF

Appearance: Opaque white emulsion with ammonical odor.

Section 10. STABILITY AND REACTIVITY

GENERAL:
STABLE
INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:
None
Reactive alkali metals, strong acids & bases.
HAZARDOUS DECOMPOSITION:
Forced combustion yields carbon oxides.

Section 11. TOXICOLOGICAL INFORMATION

RESULTS OF COMPONENT TOXICITY TEST PERFORMED:
Information not available.
HUMAN EXPERIENCE:
Information not available.

Section 12. ECOLOGICAL INFORMATION

FURTHER INFORMATION:
Information not available.

Section 13. DISPOSAL CONSIDERATIONS

RCRA 40 CFR 261 Classification:

Federal, State, and Local laws governing disposal of materials can differ. Ensure proper disposal compliance with proper authorities before disposal.

Section 14. TRANSPORTATION INFORMATION

U.S. DOT Information
Basic Description: NON HAZARDOUS MATERIAL
Proper Shipping Name: N/A
Hazard Class: N/A

EPAHO104000038

Packaging Group: N/A
UN Number: N/A
Limitations:

IATA
Proper Shipping Name: NON HAZARDOUS MATERIAL
Hazard Class: N/A
Packing Group: N/A
UN Number: N/A
Limitations:

IMO
Proper Shipping Name: NON HAZARDOUS MATERIAL
Class: N/A
UN Number: N/A
Packaging Group: N/A
EMS: N/A
MFAG: N/A
Marine Pollutant: N/A
Canadian TDG: N/A
Limitations:

==========

Section 15. REGULATORY INFORMATION

UNITED STATES FEDERAL REGULATIONS:

MSDS complies with OSHAs Hazard Communication Rule, 29 CFR 1910.1200.

CERCLA/SUPERFUND, 40 CFR 117, 302:
--- None of the chemicals are Superfund hazards ---

SARA SUPERFUND AND REAUTHORIZATION ACT OF 1986
TITLE III Sections 302, 311, 312 and 313:
Section 302 - Extremely hazardous substances (40 CFR 355):
--- None of the chemicals are Section 302 hazards ---

Section 311/312 - Material Safety Data Sheet Requirements (40 CFR 370)
( ) By our hazard evaluation, this product is non-hazardous.
(X) By our hazard evaluation, this product is hazardous. It should be reported under the following EPA hazard.
(X) Immediate (acute) health hazard
( ) Delayed (chronic) chronic health hazard
( ) Sudden release of pressure hazard
( ) Reactive hazard
( ) FLAMMABLE

Section 313 - List of Toxic Chemicals (40 CFC 372)
This product contains the following chemicals (at levels of 1% or greater) which are found on the 313 list of Toxic Chemicals.

CHEMICAL	C.A.S. NUMBER	WEIGHT %
--- None of the chemicals are 313 Toxic Chemicals ---		

TOXIC SUBSTANCE CONTROL ACT (TSCA): All substances are TSCA Listed.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA 40 CFR 261) Subpart C & D:
Refer to Section 11. for RCRA classification.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 (FORMERLY SECTION 307), 40 CFR 116 (FORMERLY SECTION 311)
This product contains the following chemicals which are listed:

CHEMICAL	C.A.S. NUMBER	WEIGHT %

CLEAN AIR ACT: --- No Information ---

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:
This product contains the following ingredients which appear on the

California proposition 65 list:

CHEMICAL	C.A.S. NUMBER	WEIGHT %

--- None of the chemicals are on the Proposition 65 list ---

INTERNATIONAL REGULATIONS:
CANADA WHMIS: NIF
EUROPE EINECS NUMBERS: NIF

Section 16. OTHER INFORMATION

LABEL INFORMATION:
European risk and Safety Phrases: S2, S7, S24/25
European Symbols Needed: NIF
Canadian WHMIS Symbols: NIF

NFPA HAZARD RATING:
(0) Fire (1) Health (0) Reactivity

REVISION DATES, SECTIONS, REVISED BY:
27-JLY-94, CONVERTED TO ANSI STANDARD, B. RIFFEL
26-APR-95, Updated Section 16, B. Riffel
09-MAY-95, Corrected CAS Number Section 2, B. Riffel
18-AUG-97, Reviewed, B. Riffel
18-Jan-01, Updated Section 1, B. Riffel
18-Jan-01, Updated Section 14, R. Prichard

ABBREVIATIONS USED IN THIS DOCUMENT:
NE - Not Established, NA - Not Applicable, NIF - No Information Found

REFERENCES:
Code of Federal Regulations (CFR)
The Sigma-Aldrich Library of Regulatory and Safety Data
Chemical Guide and OSHA Hazard Communication Standard
Various Federal, State & Local Regulations

To the best of our knowledge, the information contained herein is accurate. However, neither Tech Spray, Inc. or any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

TOTAL P.06

APR-27-2009 10:01 UPI CORPORATION 9204515883 P.06/06

#33318

JR 1GB
IL

CES Environmental Services, Inc.

☑ CES Environmental Services - Houston Facility	☐ CES Environmental Services - Port Arthur Facility
4904 Griggs Road, Houston, TX 77021	2420 S. Gulfway Dr., Port Arthur, TX 77641
Phone (713) 676-1460 Fax: (713) 676-1460	Phone (713) 676-1460 Fax: (713) 676-1460
U.S. EPA ID Number: TXD008950461 ISWR Number: 30900	U.S. EPA ID Number: TXR000079307 ISWR Number: 88585
TCEQ Industrial Solid Waste Permit Number: 30948	

SECTION 1: Generator Information

Company: Smith International, Inc.
Address: 14713 Jersey Shore
City: Pearland **State:** TX **Zip:** 77047
Contact: Tyra Garacci **Title:** Environmental Specialist
Phone Number: 713-305-5722 **Fax Number:**
24/hr Phone Number:
US EPA ID No: ~~CESQG~~
State ID No: ~~CESQG~~ XFX12 **SIC Code:** 1389

SECTION 2: Billing Information - ☐ **Same as Above**

Company: Smith International
Address: P.O. Box 60068; 16740 Hardy Street
City: Houston **State:** TX **Zip:** 77205-0068
Contact: Stephanie Dvorak **Title:**
Phone Number: 281-233-5838 **Fax Number:** 281-233-5620

SECTION 3: General Description of the Waste

Name of Waste: Rust Remover
Detailed Description of Process Generating Waste:

Inventory no longer needed.

Physical State: ☑ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Clear. Colorless **Odor:** Odorless

Specific Gravity (water=1): 1.06 **Density:** 8.8 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☑ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☑ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☑ No

Answer "Yes" if your waste contains benzene **AND** if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☑ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☑ Other (explain) 5 gal - pail

Frequency: ☐ Weekly ☐ Monthly ☐ Yearly ☑ One-Time
Quantity: 2

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ☐ Yes ☑ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☑ No

If "Yes", then please list ALL applicable codes: _____

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☑ No

If "Yes", then please list ALL applicable codes: _____

Texas State Waste Code Number: ~~CES01051~~ FLTR1051

Proper US DOT Shipping Name: Non-Hazardous, Non-Regulated Liquid (Rust remover)

Class: _____ **UN/NA:** _____ **PG:** _____ **RQ:** _____

Flash Point	pH	Reactive Sulfides	Reactive Cyanides	Solids
>140	5.5-6.5	BRL mg/l	BRL mg/l	0-1 %

Oil & Grease	TOC	Zinc	Copper	Nickel
>1500 mg/l	>1500 mg/l	BRL mg/l	BRL mg/l	BRL mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Rust Eraser	100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. MSDS

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

Oxidizing agents

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge: MSDS

TCLP Metals:	BRL
TCLP Volatiles:	BRL
TCLP Semi-Volatiles:	BRL
Reactivity:	NON
Corrosivity:	NON
Ignitability:	>140F

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge? ☐ YES ☑ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory*: *Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory*: *Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory*: *Subpart C

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1) If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2) If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3) If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data.
I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of compostion properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 5/11/2009

Printed Name/Title: Tyra Garacci Environmental Specialist

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____
Date: 5-14-09 ☑ Approved ☐ Rejected
Approval Number: _____

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

$30 / 5 GAL DRUM

2. Contamination Limit (maximum limit before surchages apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

System 1

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

8. Management for Product Recovered/Recycled (if applicable)

ZEP Manufacturing Company
Acuity Specialty Products Group, Inc.
P.O. Box 2015
Atlanta, GA 30301
® 1-877-I-BUY-ZEP (428-9937)
www.zep.com

Material Safety Data Sheet
and Safe Handling and Disposal Information

SC-9

Section 1. Chemical Product and Company Identification

Product name RUST ERASER
Product Use Rust Remover
Product Code M995
Date of issue 09/30/05 **Supersedes**

Emergency Telephone Numbers

For MSDS Information:
Acuity Specialty Products Group, Inc.
Compliance Services 1-877-I-BUY-ZEP (428-9937)

For Medical Emergency
INFOTRAC:
(877) 541-2016 Toll Free - All Calls Recorded

For a Transportation Emergency
CHEMTREC:
(800) 424-9300 - All Calls Recorded
In the District of Columbia (202) 483-7616

Printing date: 10/13/05

Prepared by Compliance Services Group
Acuity Specialty Products Group
1420 Seaboard Industrial Blvd.
Atlanta, GA 30318

Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
OSHA's Hazard Communication Standard (29 CFR 1910.1200) does not require the listing of any ingredient for this product.		80	Water

Section 3. Hazards Identification

phosphoric acid // surfactants. pH 5.5-6.5

Acute Effects **Routes of Entry** Not applicable.

Skin Non-irritating under conditions of use.Prolonged or repeated contact may dry skin and cause irritation.

Eyes Direct contact may cause irritation and redness.

Inhalation No known acute effects of this product resulting from inhalation.

Ingestion Not considered to be toxic for humans.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse health effects are lessened by following all prescribed safety precautions, including use of proper personal protective equipment.

HMIS

	0
	0
Reactivity	0
Personal Protection	A

Carcinogenic Effects Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Chronic Effects There is no known effect from chronic exposure to this product.

See Toxicological Information (section 11)

Section 4. First Aid Measures

Eye Contact Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops.

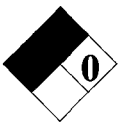
Skin Contact Rinse with plenty of running water. Get medical attention if irritation develops.

Inhalation If inhaled, remove to fresh air. If irritation persists, get medical attention.

Ingestion Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If conscious, give plenty of water to drink. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flash Point Not applicable.
Flammability Not applicable.
Fire Hazard Not applicable.
Flammable Limits Not applicable.
Fire-Fighting Procedures Not applicable.



EPAHO104000047

Section 6. Accidental Release Measures

Spill Clean up Put on appropriate personal protective equipment (see Section 8). Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. Finish cleaning the spill area with running water.

Section 7. Handling and Storage

Handling Avoid contact with eyes. Wash contaminated clothing before reusing. Wash thoroughly after handling.

Storage Keep container tightly closed and dry. Store between 40°F - 120°F. Keep out of the reach of children.

Section 8. Exposure Controls, Personal Protection

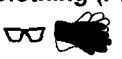
Personal Protection

Eyes Safety glasses.

Body For prolonged or repeated handling, use gloves. Natural rubber (latex) gloves.

Respiratory No special protection is required.

Protective Clothing (Pictograms)



Section 9. Physical and Chemical Properties

Physical State Liquid.

pH 5.5 - 6.5

Boiling Point 100°C (212°F)

Specific Gravity 1.06 (Water = 1)

Solubility Easily soluble in cold water, hot water.

Color Clear. Colorless.

Odor Odorless.

Vapor Pressure Not determined.

Vapor Density Not determined.

Evaporation Rate 1 compared to Water

VOC (Consumer) 0 (g/l).

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Reactive with oxidizing agents.

Hazardous Polymerization Will not occur.

Hazardous Decomposition Products Carbon Dioxide, Carbon Monoxide and other organic materials.

Section 11. Toxicological Information

Toxicity to Animals Not applicable.

Section 12. Ecological Information

Ecotoxicity Not available.

Biodegradable/OECD Not available.

Section 13. Disposal Considerations

Waste Information Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Waste Stream Code: - (None.)
Classification: - (Non-hazardous waste)

Consult your local or regional authorities.

Section 14. Transport Information

Proper shipping name Not applicable.

DOT Classification Not a DOT controlled material (United States).

UN number Not regulated.

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

Section 15. Regulatory Information

U.S. Federal Regulations SARA 313 toxic chemical notification and release reporting:
No products were found.
Clean Water Act (CWA) 311: No products were found.
Clean air act (CAA) 112 regulated toxic substances: No products were found.
All Components of this product are listed or exempt from listing on TSCA inventory.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

#3317

JR / GB
OSL

CES Environmental Services, Inc.

☑ CES Environmental Services - Houston Facility 4904 Griggs Road, Houston, TX 77021 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXD008950461 ISWR Number: 30900 TCEQ Industrial Solid Waste Permit Number: 30948	☐ CES Environmental Services - Port Arthur Facility 2420 S. Gulfway Dr., Port Arthur, TX 77641 Phone (713) 676-1460 Fax: (713) 676-1460 U.S. EPA ID Number: TXR000079307 ISWR Number: 88585

SECTION 1: Generator Information

Company: Smith International, Inc.
Address: 14713 Jersey Shore
City: Pearland **State:** TX **Zip:** 77047
Contact: Tyra Garacci **Title:** Environmental Specialist
Phone Number: 713-305-5722 **Fax Number:**
24/hr Phone Number: 281-443-3370
US EPA ID No: ~~CESQG~~
State ID No: ~~CESQG~~ XXF12 **SIC Code:** 1389

SECTION 2: Billing Information - ☐ **Same as Above**

Company: Smith International
Address: P.O. Box 60068; 16740 Hardy Street
City: Houston **State:** TX **Zip:** 77205-0068
Contact: Stephanie Dvorak **Title:**
Phone Number: 281-233-5838 **Fax Number:** 281-233-5620

SECTION 3: General Description of the Waste

Name of Waste: Lithium Grease
Detailed Description of Process Generating Waste:

Inventory no longer needed.

Physical State: ☐ Liquid ☐ Sludge ☐ Powder ☑ Solid ☐ Filter Cake ☐ Combination

Color: Copper / Red **Odor:** Slight Petroleum

Specific Gravity (water=1): .8 - 1.2 **Density:** 6.67 - 10 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☑ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☑ No

Is the Waste subject to the benzene waste operation NESHAP? (40 CFR Part 61, Subpart FF) ☐ Yes ☑ No

Answer "Yes" if your waste contains benzene **AND** if the SIC code from your facility is one of the following:

2812	2813	2816	2819	2821	2822	2823	2824	2833	2834
2835	2836	2841	2842	2843	2844	2851	2861	2865	2869
2873	2874	2876	2879	2891	2892	2893	2896	2899	2911
3312	4953	4959	9511						

Layers: ☑ Single-phase ☐ Multi-phase

Container Type: ☐ Drum ☐ Tote ☐ Truck ☑ Other (explain)

Frequency: ☐ Weekly ☐ Monthly ☐ Yearly ☑ One-Time
Quantity: 3

Is this a USEPA "Hazardous Waste" per 40CFR 261.3? ☐ Yes ☑ No

If "Yes", then please complete, sign and date the Underlying Hazardous Constituents Form attached hereto

If "Yes", Is it: ☐ D001 (Ignitable) ☐ D002 (Corrosive) ☐ D003 (Reactive)

Characteristic for Toxic Metals: ☐ D004 ☐ D005 ☐ D006 ☐ D007 ☐ D008 ☐ D009 ☐ D010 ☐ D011

Characteristic for Toxic Organics: D012 thru D043 (please list all that apply)

Is this an "F" or "K" Listed waste or mixed with one? ☐ Yes ☑ No

If "Yes", then please list ALL applicable codes: _____

Is this a commercial product or spill cleanup that would carry a "U" or "P" waste code under 40 CFR 261.33(e) or (f)? ☐ Yes ☑ No

If "Yes", then please list ALL applicable codes: _____

Texas State Waste Code Number: ~~CESQ6961~~ FLTPL09Q1

Proper US DOT Shipping Name: Non-Hazardous, Non-Regulated Material (Lithium Grease)

Class: _____ **UN/NA:** _____ **PG :** _____ **RQ:** _____

Flash Point		pH		Reactive Sulfides		Reactive Cyanides		Solids	
>200		5-9		BRL	mg/l	BRL	mg/l	90-100	%
Oil & Grease		**TOC**		**Zinc**		**Copper**		**Nickel**	
>1500	mg/l	>1500	mg/l	BRL	mg/l	BRL	mg/l	BRL	mg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE	CONCENTRATOIN	UNITS
The waste consists of the following materials	Ranges are acceptable	or %
Sta-Plex Extreme Pressure Premium Red Grease	0-100	%
Copper Supreme Special blend	0-100	%

SECTION 5: Safety Related Data

If the handling of this waste requires the use of special protective equipment, please explain.

Level D

SECTION 6: Attached Supporting Documents

List all documents, notes, data and/or analysis attached to this form as part of the waste approval package. MSDSs

SECTION 7: Incompatibilities

Please list ALL incompatibilities (if any):

Strong oxidizers & acids

SECTION 8: Generator's Knowledge Documentation

Laboratory analysis of the hazardous waste characteristics, listed below, **WAS NOT PERFORMED** based upon the following generator knowledge: MSDS

TCLP Metals:	BRL
TCLP Volatiles:	BRL
TCLP Semi-Volatiles:	BRL
Reactivity:	NON
Corrosivity:	NON
Ignitability:	>200F

SECTION 9: Waste Receipt Classification Under 40 CFR 437 (Prtaining to Pre-Treatment Requirements for Centralized Waste Treatment Facilities)

Is this material a wastewater or wastewater sludge? ☐ YES ☑ NO

If 'Yes', complete this section.

PLEASE CHECK THE APPROPRIATE BOX. IF NO APPROPRIATE CATEGORY, GO TO THE NEXT PAGE.

Metals Subcategory*: *Subpart A

- ☐ Spent electroplating baths and/or sludges
- ☐ Metal finishing rinse water and sludges
- ☐ Chromate wastes
- ☐ Air pollution control blow down water and sludges
- ☐ Spent anodizing solutions
- ☐ Incineration wastewaters
- ☐ Waste liquid mercury
- ☐ Cyanide-containing wastes greater than 136 mg/l
- ☐ Waste acids and bases with or without metals
- ☐ Cleaning, rinsing, and surface preparation solutions from electroplating or phosphating operations
- ☐ Vibratory deburring wastewater
- ☐ Alkaline and acid solutions used to clean metal parts or equipment

Oils Subcategory*: *Subpart B

- ☐ Used oils
- ☐ Oil-water emulsions or mixtures
- ☐ Lubricants
- ☐ Coolants
- ☐ Contaminated groundwater clean-up from petroleum sources
- ☐ Used petroleum products
- ☐ Oil spill clean-up
- ☐ Bilge water
- ☐ Rinse/wash waters from petroleum sources

- ☐ Interceptor wastes
- ☐ Off-specification fuels
- ☐ Underground storage remediation waste
- ☐ Tank clean-out from petroleum or oily sources
- ☐ Non-contact used glycols
- ☐ Aqueous and oil mixtures from parts cleaning operations
- ☐ Wastewater from oil bearing paint washes

Organics Subcategory **: *Subpart C***

- ☐ Landfill leachate
- ☐ Contaminated groundwater clean-up from non-petroleum sources
- ☐ Solvent-bearing wastes
- ☐ Off-specification organic product
- ☐ Still bottoms
- ☐ Byproduct waste glycol
- ☐ Wastewater from paint washes
- ☐ Wastewater from adhesives and/or epoxies formulation
- ☐ Wastewater from organic chemical product operations
- ☐ Tank clean-out from organic, non-petroleum sources

(1)

If the waste contains oil and grease at or in excess of 100 mg/L, the waste should be classified in the oils subcategory.

(2)

If the waste contains oil and grease less than 100 mg/L, and has any of the pollutants listed below in concentrations in excess of the values listed below, the waste should be classified in the metals subcategory.

Cadmium: 0.2 mg/L
Chromium: 8.9 mg/L
Copper: 4.9 mg/L
Nickel: 37.5 mg/L

(3)

If the waste contains oil and grease less than 100 mg/L, and does not have concentrations of cadmium, chromium, copper, or nickel above any of the values listed above, the waste should be classified in the organics subcategory.

- ☐ Metals Subcategory
- ☐ Oils Subcategory
- ☐ Organics Subcategory

SECTION 10 Additional Instructions

If you cannot determine the correct subcategory in Section 9 and you did not furnish data for the concentration of Cadmium, Chromium, Copper, Nickel, and Oil and Grease, CES will send offsite to a commercial laboratory a sample to determine these concentrations. This will be prior to acceptance. The generator will be responsible for the cost of the analysis.

SECTION 11: Generator's Certification

The information contained herein is based on ☑ generator knowledge and/or ☐ analytical data.
I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of compostion properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 5/11/2009

Printed Name/Title: Tyra Garacci - Environmental Specialist

CES USE ONLY (DO NOT WRITE IN THIS SPACE)

Compliance Officer: _____
Date: 5-14-09 ☑ Approved ☐ Rejected
Approval Number: _____

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

1. Base Pricing (including freight):

$30 / 5 GAL DRUM

2. Contamination Limit (maximum limit before surchages apply):

3. Surcharge Pricing:

4. Special Testing Requirements:

5. Treatment and Handling Protocol:

Bulk to Class 1 box. Do not pressurize, cut, braze, solder, drill, grind or expose empty containers to heat, flame, sparks or other sources of ignition.

6. Treated Wastewater Discharge Subcategory:

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY)!!!

7. Tests for Product Recovered/Recycled (if applicable):

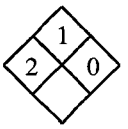
8. Management for Product Recovered/Recycled (if applicable)

SC-17

MATERIAL SAFETY DATA SHEET

VENDEE AND THIRD PERSONS ASSUME THE RISK OF INJURY PROXIMATELY CAUSED BY THIS PRODUCT IF REASONABLE SAFETY PROCEDURES ARE NOT FOLLOWED AS PROVIDED FOR IN THE DATA SHEET, AND VENDOR SHALL NOT BE LIABLE FOR SUCH INJURY. FURTHERMORE, VENDOR SHALL NOT BE LIABLE FOR INJURY TO VENDEE OR THIRD PERSONS PROXIMATELY CAUSED BY ANY ABNORMAL USE OF THIS PRODUCT EVEN IF REASONABLE SAFETY PROCEDURES ARE FOLLOWED.
ALL PERSONS USING THIS PRODUCT, ALL PERSONS WORKING IN AN AREA WHERE THIS PRODUCT IS USED, AND ALL PERSONS HANDLING THIS PRODUCT SHOULD BE FAMILIAR WITH THE CONTENTS OF THIS DATA SHEET. POSTING THIS DOCUMENT FOR EMPLOYEE NOTIFICATION IS RECOMMENDED BY THE VENDOR.

N. F. P. A.



1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME **Copper Supreme Special Blend**

SYNONYMS 4B Copper Supreme Special Blend **INTENDED USE** Industrial

MANUFACTURER'S NAME Bestolife Corporation **TELEPHONE #** (214)631-6070

ADDRESS 2777 Stemmons Freeway Suite 1800, Dallas, Texas 75207 **TRANSP. EMERGENCY #** (800)424-9300

FOR ADDITIONAL INFORMATION CONTACT Bestolife Corporation **DATE** Apr 2008 Revised

2. COMPOSITION, INFORMATION ON INGREDIENTS

MATERIAL OR COMPONENT	WEIGHT	OSHA		ACGIH		Other
(CAS#)	%	PEL/TWA	Ceiling	TLV/TWA	TLV/STEL	
Petroleum Grease Mixture (CAS# 64742-58-1, 64742-54-7, 64742-62-7, 7620-77-1, 38900-29-7, 64742-16-1, 64741-56-6, 64742-52-5, Mixture)	55-70	5mg/m³**	None	5mg/m³**	10mg/m³**	Not Applicable
Copper (CAS# 7440-50-8)	5-15	0.1mg/m³***	None	0.2mg/m³***	None	Not Applicable
Lime (CAS# 1305-78-8)	0-5	5mg/m³	None	2mg/m³	None	Not Applicable
Other Non-Hazardous Ingredients						

*Respirable Dust **Oil Mist, Mineral ***Fume

3. HAZARDS IDENTIFICATION

Routes of Exposure for Users

Skin Contact	May cause irritation.
Skin Absorption	Organic compounds contained herein may be absorbed through the skin.
Eye Contact	May cause irritation.
Ingestion	This product may be absorbed by the digestive system. Ingestion can result in both acute and chronic overexposure.
Inhalation	If the grease base has been removed, i.e. by volatile solvents, heat, etc., the remaining powders and metallics can pose an inhalation hazard resulting in both acute and chronic overexposure as well as lung irritation, lung injury, or other health effects.

EPAHO104000055

Effects of Overexposure

Acute Product may cause irritation to the eyes and/or skin. Ingestion of the product may cause gastrointestinal irritation and upset.

Chronic Prolonged and repeated contact with the product may cause a defatting of the skin, dermatitis, folliculitis and/or oil acne.

Signs and Symptoms of Exposure Skin or eye irritation; see effects of overexposure described above.

Aggravated Medical Conditions Chronic forms of kidney, liver, and hematopoietic diseases; preexisting respiratory and cardiovascular disorders may be aggravated by ingestion or inhalation of large doses. Preexisting eye or skin disorders may be aggravated by prolonged contact with this product.

Notes to Physician The hydrocarbons contained in this product are mild irritants of the eyes and mucous membranes, central nervous system depressants, and primary chemical irritants of the skin. Prolonged or repeated skin contact, especially with poor personal hygiene, may cause skin disorders. For combustion product effects see Hazardous Combustion Products in Section 5. Fire Fighting Measures.

4. FIRST AID MEASURES

Eyes	Flush with copious amounts of water. Get immediate medical attention.
Skin	Wash thoroughly with soap and water after use. If irritation occurs, get medical attention.
Ingestion	Get immediate medical attention. DO NOT INDUCE VOMITING! Possible aspiration hazard.
Inhalation	Remove from exposure. Get medical attention if experiencing cough, irritation or difficult breathing.

5. FIRE FIGHTING MEASURES

Flash Point Minimum 385°F (196°C) Test Method: ASTM D 92, C.O.C.

Flammable Limits in Air (% by volume, estimated) Lower: Not Available Upper: Not Available

Auto-ignition Temperature Not Available

Hazardous Combustion Products Combustion products are highly dependent on the combustion conditions. CO, CO_2, CaO, oxygenates, and unidentified organic compounds may be formed during combustion. High temperatures may produce metal fume, vapor, and/or dust. Combustion products may cause effects of overexposure as noted in Section 3. Hazards Identification. They may also cause headache; dizziness; coma; convulsion; weakness; drowsiness; tachypnea; nausea; paresthesias; dyspnea; asphyxiation; mild to severe eye, skin or respiratory tract irritation; metal fume fever; metallic taste in mouth; cough; pneumonia; pneumoconiosis; ulceration or perforation of the nasal septum and/or lung damage. Other unidentified health effects may occur.

Conditions Contributing to Flammability High temperatures; open flame; combining with strong oxidizer or acid

Extinguishing Media Dry chemical, water fog, foam, or carbon dioxide may be suitable for extinguishing fires involving this product. Do not spray water directly on burning material. Observe caution when using water or foam as frothing may occur.

Special Fire Fighting Procedures Use full-body protection and full-face, self-contained breathing apparatus operated in a positive-pressure mode. Use water spray (fog) to cool containers and disperse vapors.

Unusual Fire and Explosion Hazards Product fume and/or vapor may be irritating or toxic if inhaled. The product, or its dust, can react vigorously with strong oxidizing agents.

Sensitivity to Impact Not Applicable **Sensitivity to Static Discharge** Not Applicable

EPAHO104000056

6. ACCIDENTAL RELEASE MEASURES

Steps to be Taken if Material is Released or Spilled Clean area with an appropriate cleanser. Keep petroleum products out of streams and waterways. Assure conformity with applicable governmental regulations.

Neutralizing Chemicals Not Applicable

7. HANDLING AND STORAGE

The two major means of metal absorption are inhalation and ingestion. After use, always wash hands before smoking, eating, or drinking. Smoking, eating, and drinking should be confined to uncontaminated areas.

Work clothes and equipment should remain in designated areas. Before reuse, launder contaminated clothing separate from personal clothing.

Avoid skin contact and use personal protection when handling product, waste product, or contaminated equipment. Wash with soap and water after use. Prolonged and repeated contact can cause defatting action of the skin and may cause disorders such as dermatitis, folliculitis, and oil acne.

This product is intended for industrial use only. KEEP OUT OF REACH OF CHILDREN.

This product may separate. Stir well before use. The flash point of this product depends on the degree of separation. Store in a cool, dry area where accidental contact with acids is not possible. Keep storage containers closed when not in use. Do not store or handle near high temperature or open flame.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Ventilation Requirements No special requirements under conditions of normal use (air concentrations below PEL/TLV levels).

Specific Personal Protection Equipment

RESPIRATORY	None required for normal use. Dry residue may be created by high downhole temperatures; if the residue is removed without a solvent or other means of controlling dust, workers should wear air-purifying respirators.
EYE	Vented goggles or safety glasses with side shields should be worn when using this product.
GLOVE	Oil-resistant gloves should be worn when handling this product.
OTHER CLOTHING AND EQUIPMENT	As appropriate for the industrial environment.

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT @ 760 mm Hg	550°F (288°C) Approx. IBP	**MELTING POINT**	450-500°F (232-260°C) dropping point of grease
SPECIFIC GRAVITY (H_2O = 1)	1.2	**VAPOR PRESSURE (Reference Temperature)**	Not Available
VAPOR DENSITY (Air = 1)	Greater than 1	**SOLUBILITY IN H_2O (% by wt.)**	Negligible
% VOLATILE BY VOLUME	Not Available	**EVAPORATION RATE (Butyl Acetate = 1)**	Less than 1
COEFF. WATER/OIL DISTRIBUTION	Not Available	**pH**	Not Available
FREEZING POINT	Not Available	**ODOR THRESHOLD**	Not Available
APPEARANCE AND ODOR	Copper-colored semisolid, oil/grease odor, noncombustible, nonvolatile under normal use		

10. STABILITY AND REACTIVITY

Conditions Contributing to Instability Not Applicable **Reactivity** Not Applicable

Incompatibility Strong oxidizers or acids combined with this product may liberate hydrogen gas.

Hazardous Decomposition Products Under normal temperatures this product will not decompose.

Conditions Contributing to Hazardous Polymerization Not Applicable

EPAHO104000057

11. TOXICOLOGICAL INFORMATION

Toxicity, Mutagenic, Teratogenic, Synergistic and Sensitization Information
LD_{50} and LC_{50} information on the oil and grease is not available. LD_{50} and LC_{50} information on other components is not available. Rare cases of allergic contact dermatitis have been reported in people working with copper dust.

Carcinogenicity
According to the OSHA Hazard Communication Standard, a carcinogenic warning statement is not required.

12. ECOLOGICAL INFORMATION

Not Available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method
Discard in accordance with local, state, and federal regulations. Empty containers are exempt from RCRA Subtitle C if they contain no more than 2.5 cm of their original contents in the bottom of the container or less than 3% of the original net weight (less than 0.3% by weight for containers over 110 gallons), or if the residue is analyzed and demonstrated to be nonhazardous.

"Empty" Container Warning
"Empty" containers retain residue and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF INGNITION; THEY MAY EXPLODE AND CAUSE INJURY AND/OR DEATH. "Empty" containers should be completely drained and properly sealed. Recycle or discard plastic liner, pail or drum in accordance with local, state, and federal regulations. "Empty" drums may be sent to a drum reconditioner.

14. TRANSPORT INFORMATION

U.S. DOT: Not regulated by Ground unless it is being shipped by vessel, then it may be classified on documentation as UN3082, Environmentally Hazardous Substance, Liquid n.o.s. (Copper Metal Powder), Class 9, PGIII, Marine Pollutant. (Prepared in compliance with IMDG)
ICAO/IATA: Not Regulated
IMDG: UN3082 Environmentally Hazardous Substance, Liquid, n.o.s. (Copper Metal Power), Class 9, PGIII, Marine Pollutant.

Canadian Transportation of Dangerous Goods This product is not considered Hazardous Material for shipping under Canadian Transportation of Dangerous Goods.

15. REGULATORY INFORMATION

Toxic Chemical Release Reporting, EPA Regulation 40 C.F.R. §372 (SARA Section 313)
Reportable chemicals in product: 5-15% copper (CAS# 7440-50-8)

California Safe Drinking Water and Toxic Enforcement Act of 1986 ("Proposition 65")
WARNING: This product contains lead, a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. Overexposure from this product may be prevented by following the recommendations throughout this MSDS.

Toxic Substances Control Act (TSCA), EPA Regulation 40 C.F.R. §710
The product is a mixture as defined by TSCA. The chemical ingredients in this product are in the Section 8 (b) Chemical Substance Inventory (40 C.F.R. §710) and/or are otherwise in compliance with TSCA. In the case of ingredients obtained from other manufacturers, this company relies on the assurance of responsible third parties in providing this statement.

Canadian Workplace Hazardous Materials Information System
This product is considered controlled in Canada and has been placed in WHMIS Subdivision B of Division 2 of Class D due to lead content. This MSDS has been prepared to meet WHMIS and OSHA requirements using the ANSI 16 heading MSDS format.

16. OTHER INFORMATION

Not Applicable

EPAHO104000058

Lithium Grease

Material Safety Data Sheet SC-16

Section 1: Product & Company Identification

Product Name: **Sta-Plex™ Extreme Pressure Premium Red Grease**

Product Number (s): **SL3190, SL3191, SL3195, SL3197**

Manufactured By:

CRC Industries, Inc.
885 Louis Drive
Warminster, PA 18974
www.crcindustries.com

General Information	(215) 674-4300
Technical Assistance	(800) 521-3168
Customer Service	(800) 272-8963
24-Hr Emergency (CHEMTREC)	(800) 424-9300

Section 2: Hazards Identification

Emergency Overview

Appearance & Odor: Red semi-solid to solid grease with a faint petroleum odor

As defined by OSHA's Hazard Communication Standard, this product is nonhazardous.

Potential Health Effects:

EYE:	May cause irritation.
SKIN:	Repeated or prolonged contact can result in drying of the skin.
INHALATION:	Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely due to the low volatility of this product.
INGESTION:	Can cause stomach ache and vomiting. Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis.
CHRONIC EFFECTS:	Unknown
TARGET ORGANS:	None known

Medical Conditions Aggravated by Exposure:

Skin or respiratory conditions

See Section 11 for toxicology and carcinogenicity information on product ingredients.

EPAHO104000059

Section 3: Composition/Information on Ingredients

COMPONENT	CAS NUMBER	% by Wt.
Hydrotreated heavy naphthenic distillates	64742-52-5	30 - 60
Solvent-dewaxed heavy paraffinic distillates	64742-65-0	15 – 45
Lithium 12-hydroxystearate	7620-77-1	5 – 15
Zinc, dithiophosphate di-C1-14-alkyl esters	68649-42-3	1 – 5
1-Propene-2-methyl, sulfurized	68511-50-2	1 - 5

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.

Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

Ingestion: Do not induce vomiting. Seek medical attention.

Note to Physicians: None available

Section 5: Fire-Fighting Measures

Flammable Properties: This product is nonflammable.

Flash Point:	475 F (COC)	Upper Explosive Limit:	ND
Autoignition Temperature:	ND	Lower Explosive Limit:	ND

Suitable Extinguishing Media: CO2, dry chemical, sand, dolomite, alcohol resistant foam, water spray

Products of Combustion: Oxides of carbon. Sulfur. Acrid smoke/fumes.

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition. Avoid water in straight hose stream as it will scatter and spread fire.

Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8. Minimize skin contact.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush

EPAHO104000060

into sewers or storm drains. Advise authorities if product has entered waterways.

Methods for Containment & Clean-up: Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

Section 7: Handling and Storage

Handling Procedures: Keep container away from heat, sparks, and open flame. High temperatures may produce irritating vapors. Eye wash station should be available at work place. Keep containers closed when not in use. Ventilate well, especially in warmer environments.

Storage Procedures: Store in a cool dry area out of direct sunlight. Store separated from acids and oxidizing materials. Store away from sparks and open flame.

Aerosol Storage Level: NA

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

	OSHA		ACGIH		OTHER		
COMPONENT	TWA	STEL	TWA	STEL	TWA	SOURCE	UNIT
Hydrotreated heavy naphthenic distillate	5*	NE	5*	10*	NE		mg/m^3
Solvent-dewaxed heavy paraffinic distillate	5*	NE	5*	10*	NE		mg/m^3
Lithium 12-hydroxystearate	NE	NE	NE	NE	NE		
Zinc, dithiophosphate di-C1-14-alkyl esters	NE	NE	NE	NE	NE		
1-Propene-2-methyl, sulfurized	NE	NE	NE	NE	NE		
N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated * – oil mist ** - mppcf							

Engineering Controls: Area should have ventilation to provide fresh air. Use local exhaust to prevent accumulation of vapors. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations

Respiratory Protection: None required for normal work where adequate ventilation is provided. Use NIOSH-approved self-contained positive pressure respirators in low circulation areas and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as latex or rubber. Also , use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

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Physical State: semi-solid grease
Color: red
Odor: mild petroleum
Specific Gravity: 0.90 @ 60 F
Initial Boiling Point: ND
Freezing Point: ND
Vapor Pressure: < 0.1 mmHg @ 68 F
Vapor Density: > 5 (air = 1)
Evaporation Rate: < 1 (butyl acetate = 1)
Solubility: Insoluble in water
pH: NA
Volatile Organic Compounds: wt %: 1.0 g/L: 9.0 lbs./gal: 0.075

Section 10: Stability and Reactivity

Stability: Stable

Conditions to Avoid: None

Incompatible Materials: Avoid contact with acids and oxidizing substances.

Hazardous Decomposition Products: Oxides of carbon. Sulfur

Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

ACUTE EFFECTS

Component	Test	Result	Route	Species
Naphthenic distillates	LD50	> 5000 mg/kg	Oral	Rat
Naphthenic distillates	LD50	> 2000 mg/kg	Dermal	Rabbit
Naphthenic distillates	LC50	2.18 mg/L/4H	Inhalation	Rat

CHRONIC EFFECTS

Carcinogenicity:

	Component	Result
OSHA:	None listed	
IARC:	None listed	
NTP:	None listed	

Mutagenicity: None available

Other: Naphthenic distillates — Base oils of this product contain < 3% DMSO Extractable total polycyclic aromatic compound (PAC) per IP 346.

EPAHO104000062

Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity:	Naphthenic distillates: 48 Hr EC50 Daphnia magna: >1000 mg/L
Persistence / Degradability:	None available
Bioaccumulation / Accumulation:	None available
Mobility in Environment:	None available

Section 13: Disposal Considerations

Disposal: This product is not a RCRA hazardous waste.

All disposal activities must comply with federal, state and local regulations. Local regulations may be more stringent than state or national requirements.

Section 14: Transport Information

Proper shipping description:

US DOT (ground): Not Regulated

Special Provisions: None

Section 15: Regulatory Information

U.S. Federal

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: None

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

Section 311/312 Hazard Categories:

Fire Hazard	No
Reactive Hazard	No
Release of Pressure	No
Acute Health Hazard	No
Chronic Health Hazard	No

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

Zinc compounds (< 5%)

EPAHO104000063

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

State Regulations

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: None

State Right to Know:

New Jersey:	68649-42-3
Pennsylvania:	68649-42-3
Massachusetts:	None
Rhode Island :	None

Additional Regulatory Information: None

Section 16: Other Information

NFPA:	Health:	1	Flammability:	1	Reactivity:	0		
HMIS:	Health:	1	Flammability:	1	Reactivity:	0	PPE:	B

Prepared By: Michelle Rudnick
CRC #: 2492CRC
Revision Date: 1/08/2007

Changes since last revision: MSDS reformatted in accordance with ANSI Z400.1-2004

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and directions on the label.

CAS:	Chemical Abstract Service	NA:	Not Applicable
ppm:	Parts per Million	ND:	Not Determined
TCC:	Tag Closed Cup	NE:	Not Established
PMCC:	Pensky-Martens Closed Cup	g/L:	grams per Liter
PPE:	Personal Protection Equipment	lbs./gal:	pounds per gallon
TWA:	Time Weighted Average	STEL:	Short Term Exposure Limit
OSHA:	Occupational Safety and Health Administration	COC:	Cleveland Open Cup
ACGIH	American Association of Governmental Industrial Hygienists		
NIOSH	National Institute of Occupational Safety & Health		
mppcf	Millions of particles per cubic foot (of air)		

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#3314

JK / GB

Product

~~Formula 50~~

~~is hazardous~~

CES Environmental Services, Inc.

4904 Griggs Road Houston, TX 77021
Phone: (713) 676-1460 Fax: (713) 676-1676
http://www.cesenvironmental.com

TCEQ Industrial Solid Waste Permit No: 30948
U.S. EPA ID No: TXD008950461 ISWR No: 30900

SECTION 1: Material Producer Information

Company:	Smith International		
Address:	14713 Jersey Shore		
City, State, Zip:	Pearland, TX		
Contact:	Tyra Garacci	**Title:**	
Phone No:	281-233-5346	**Fax No:**	281-233-5982
24/hr Phone:			
U.S. EPA I.D. No:	N/A		
State I.D.	N/A	**SIC Code:**	N/A

SECTION 2: Billing Information – ☐ Same as Above

Company:	Smith International		
Address:	PO Box 60068; 16740 Hardy Street		
City, State, Zip:	Houston, TX 77032		
Contact:	Tyra Garacci	**Title:**	Facility HSE Specialist
Phone No:	281-233-5346	**Fax No:**	281-233-5982

SECTION 3: General Description of the Material / Product

Name of Material / Product: Soap
Detailed Description of Process Generating or Producing the Material / Product: Inventory no longer needed.

Physical State: ☒ Liquid ☐ Sludge ☐ Powder ☐ Solid ☐ Filter Cake ☐ Combination

Color: Varies **Odor:** pleasant

Specific Gravity (water=1): 1.06-1.08 **Density:** 8.8 - 9 lbs/gal

Does this material contain any total phenolic compounds? ☐ Yes ☒ No

Does this material contain any para substituted phenolic compounds? ☐ Yes ☒ No

Layers: ☒ Single-phase ☐ Multi-phase

Container Type:	☒ Drum	☒ Tote	☐ Truck	☐ Other (explain)
Container Size:	55	250		

Frequency: ☐ Weekly ☐ Monthly ☐ Quarterly ☒ Yearly
Number of Units (containers): 6 **Other:** ____

Product

Proper U.S. DOT Shipping Name: RQ, Corrosive Liquids, N.O.S. (Dodecyyl Benzene Sulfonic Acid)

Class: 8 **UN/NA:** UN1760 **PG:** 111 **RQ:** 100

EPAHO104000065

Flash Point	pH	N/A	N/A	Solids
>140	>12			0%

Oil&Grease	TOC	Zinc	Copper	Nickel
N/Amg/l	N/Amg/l	N/Amg/l	N/Amg/l	N/Amg/l

SECTION 4: Physical and Chemical Data

COMPONENTS TABLE The material / product consists of the following materials	Concentration Ranges are acceptable	Units or %
FORMULA 50	0-100	%
RW-160	0-100	%
H.D.S. PLUS	0-100	%

SECTION 5: Safety Related Data

If the handling of this material / product requires the use of special protective equipment, please explain.
Corrosive PPE

SECTION 6: Attached Supporting Documents

List all documents, notes, data, and/or analysis attached to this form as part of the material / product profile.
MSDS

SECTION 7: Incompatibilities

Please list all incompatibilities (if any):
Strong Oxidizers, Acids, Halogens

SECTION 8: Material Producer's Certification

The information contained herein is based on ☒ generator knowledge and/or ☐ analytical data. I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omissions of composition properties exist and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all materials described by this document.

Authorized Signature: _____ **Date:** 05/11/09

Printed Name/Title: Tyra Garacci - Environmental Spec

CES USE ONLY (DO NOT WRITE IN THIS SPACE)	
Technical Manager: Robert Thyne Date: 5-14-09 Approved Rejected Approval Number: _____	

EPAHO104000066

CES Environmental Services, Inc.

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

1. **Base Pricing (including freight):**

$75 / TP, $30 / 5 GAL DM

2. **Contamination Limits (maximum limit before surcharges apply):**

3. **Surcharge Pricing:**

4. **Special Testing Requirements:**

5. **Treatment and Handling Protocol:**

For use in Tankwash

6. **Treated Wastewater Discharge Subcategory:**

☐ Subcategory A ☐ Subcategory B ☐ Subcategory C

EPAHO104000067

PROCESS FACILITY INFORMATION (CES USE ONLY!!)

7. **Tests for Product Recovered/Recycled (if applicable):**

8. **Management for Product Recovered/Recycled (if applicable):**

EPAHO104000068

Soap

T-1

MATERIAL SAFETY DATA SHEET FOR RW-160

SECTION I: MANUFACTURER

TITAN CHEMICAL CORPORATION
P.O. BOX 14569
HOUSTON, TEXAS 77221

EMERGENCY PHONE: 800-648-8801
INFORMATION PHONE: 713-747-3134
PREPARED BY: SCOTT HABER

SECTION II: HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENT	CASRN	OSHA PEL	ACGIH TLV	% OTHER
2-BUTOXYETHANOL	111-76-2		50	3-5
SODIUM HYDROXIDE	1310-73-2		2MG/M3	2-3

TO THE BEST OF TITAN CHEMICAL CORP'S KNOWLEDGE, NO HAZARDOUS SUBSTANCES ARE CONTAINED IN THIS MATERIAL.

SECTION III: PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 212 DEGREES F
VAPOR PRESSURE (MM Hg): 19
VAPOR DENSITY (AIR=1) N/A
SOLUBILITY IN WATER: COMPLETE
APPEARANCE AND ODOR: CLEAR LIQUID
V.O.C. N/A

SPECIFIC GRAVITY (H20=1) 1.08
MELTING POINT: 90 DEGREES/F
EVAPORATION RATE (=1): 1
pH: pH of 5% SOLUTION >11

SECTION IV: FIRE AND EXPLOSION DATA

FLASH (COC): N/A
FLAMMABLE LIMITS: LEL (LOWER EXPLOSIVE LIMIT) N/A
UEL (UPPER EXPLOSIVE LIMIT) N/A

EXTINGUISHING MEDIA: N/A
SPECIAL FIRE FIGHTING PROCEDURES: N/A
UNUSUAL FIRE/ EXPLOSION HAZARDS: N/A

SECTION V: REACTIVITY DATA

STABILITY: UNSTABLE N/A STABLE YES
CONDITIONS TO AVOID:N/A.
INCOMPATABILITY (MATERIALS TO AVOID): N/A
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: N/A
HAZARDOUS POLYMERIZATION: MAY OCCUR: N/A WILL NOT OCCUR: YES
CONDITIONS TO AVIOD: N/A

SECTION VI: HEALTH HAZARD DATA

ROUTES OF ENTRY: INHALATION: YES SKIN: YES INGESTION: YES
HEALTH HAZARDS (ACUTE AND CHRONIC): INHALATION: MAY BE HARMFUL IF SWALLOWED. EYES: CAUSES IRRITATION. SKIN: MAY BE HARMFUL IF ABSORBED THROUGH SKIN. INGESTION: MAY BE HARMFUL IF SWALLOWED.
CARCINOGENICITY: NTP: N/A IARC MONOGRAPHS: N/A OSHA REGULATED: N/A
SIGNS AND SYMPTOMS OF EXPOSURE: N/A
MEDICAL CONDITIONS GENERALLY AGGRIVATED BY EXPOSURE: N/A
EMERGENCY AND FIRST AID PROCEDURES: EYES: FLUSH WITH LARGE AMOUNTS OF WATER---FOLLOW WITH 2% BORIC ACID. SKIN: WASH WITH WATER. INHALATION: MOVE PERSON TO FRESH AIR. CONTACT PHYSICIAN IF NECESSARY. INDEGESTION: INDUCE VOMITING, GIVE ACIDIC LIQUIDS.

SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: FLUSH AWAY WITH WATER.
WASTE DISPOSAL METHOD: STANDARD SEWAGE DISPOSAL.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: N/A
OTHER PRECAUTIONS: N/A

SECTION VIII: CONTROL MEASURES

RESPIRATORY PROTECTION (type): N/A
VENTILATION: LOCAL EXHAUST----N/A
MECHANICAL EXHAUST—N/A
PROTECTIVE GLOVES: RUBBER GLOVES IF SKIN IS IRRITATED.
EYE PROTECTION: SAFETY GOGGLES TO PROTECT AGAINST SPLASHING.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: NONE
WORK/HYGENIC PRACTICES: NONE

SECTION IX: REGULATORY CONTROLS

DEPARTMENT OF TRANSPORTATION:
PROPER SHIPPING NAME:
D.O.T.: NOT REGULATED
FREIGHT CLASSIFICATION: CLASS 55
SPECIAL TRANSPORTATION NOTES: NONE

This information herein is given in good faith and believed current as the date of this MSDS. Because conditions of use are beyond our control, no guarantee, representation or warranty expressed or implied is made. Consult Titan Chemical Corporation for further information.
Date of preparation: January, 2001

soap.

SC-3

MATERIAL SAFETY DATA SHEET FOR H.D.S. PLUS

SECTION I: MANUFACTURER

TITAN CHEMICAL CORPORATION
P.O. BOX 14569
HOUSTON, TEXAS 77221

EMERGENCY PHONE: 800-648-8801
INFORMATION PHONE: 713-747-3134
PREPARED BY: SCOTT HABER

SECTION II: HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENT	CASRN	OSHA PEL	ACGIH TLV%	OTHER
2-BUTOXYETHANOL	111-76-2		50	5-7
POTASSIUM HYDROXIDE	1310-58-3			<2

TO THE BEST OF TITAN CHEMICAL CORP'S KNOWLEDGE, NO HAZARDOUS SUBSTANCES ARE CONTAINED IN THIS MATERIAL.

SECTION III: PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 212 DEGREES F
VAPOR PRESSURE (MM Hg): 19
VAPOR DENSITY (AIR=1) N/A
SOLUBILITY IN WATER: COMPLETE
SPECIFIC GRAVITY (H20=1) 1.06
MELTING POINT: N/A DEGREES/F
EVAPORATION RATE (=1): 1
pH: pH of 5% SOLUTION 10-12
APPEARANCE AND ODOR: PURPLE, SASSAFRAS ODOR.
V.O.C. N/A

SECTION IV: FIRE AND EXPLOSION DATA

FLASH (COC): N/A
FLAMMABLE LIMITS: LEL (LOWER EXPLOSIVE LIMIT) N/A
UEL (UPPER EXPLOSIVE LIMIT) N/A

EXTINGUISHING MEDIA: NON-FLAMMABLE
SPECIAL FIRE FIGHTING PROCEDURES: NON-FLAMMABLE
UNUSUAL FIRE/ EXPLOSION HAZARDS: NONE

SECTION V: REACTIVITY DATA

STABILITY: UNSTABLE N/A STABLE YES
CONDITIONS TO AVOID: KEEP AWAY FROM STRONG OZIDIZERS, INORGANIC ACIDS, AND HALOGENS.
INCOMPATABILITY (MATERIALS TO AVOID): CAN REACT WITH STRONG OXIDIZERS, INORGANIC ACIDS, AND HALOGENS.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: IF DECOMPOSITION OCCURS, GENERATING VAPORS COULD BE IRRITATING.
HAZARDOUS POLYMERIZATION: MAY OCCUR: N/A WILL NOT OCCUR: YES
CONDITIONS TO AVIOD: NONE

SECTION VI: HEALTH HAZARD DATA

ROUTES OF ENTRY: INHALATION: YES SKIN: YES INGESTION: YES
HEALTH HAZARDS (ACUTE AND CHRONIC): NONE
CARCINOGENICITY: NTP: NO IARC MONOGRAPHS: NO OSHA REGULATED: NO
SIGNS AND SYMPTOMS OF EXPOSURE: NONE
MEDICAL CONDITIONS GENERALLY AGGRIVATED BY EXPOSURE: DRYNESS OF SKIN WITH PROLONGED EXPOSURE
EMERGENCY AND FIRST AID PROCEDURES: EYES: FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES; SEEK MEDICAL ATTENTION. SKIN: WASH WITH SOAP AND WATER. INDEGESTION: INDUCE VOMITING, GIVE ACIDIC LIQUIDS.

SECTION VII: PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: FLUSH AWAY WITH LARGE AMOUNTS OF WATER.
WASTE DISPOSAL METHOD: STANDARD SEWAGE DISPOSAL.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: THIS PRODUCT IS NOT A HAZARDOUS SUBSTANCE AS DEFINED BY THE DEPARTMENT OF TRANSPORTATION. NOR IS IT A DANGEROUS GOOD AS DEFINED BY THE IATA FOR AIR TRANSPORTATION.
OTHER PRECAUTIONS: NONE

SECTION VIII: CONTROL MEASURES

RESPIRATORY PROTECTION (type): N/A
VENTILATION: LOCAL EXHAUST—N/A
MECHANICAL EXHAUST—N/A
PROTECTIVE GLOVES: YES
EYE PROTECTION: SPLASH GOGGLES
OTHER PROTECTIVE CLOTHING OR EQUIPMENT: NONE
WORK/HYGENIC PRACTICES: NONE

SECTION IX: REGULATORY CONTROLS

DEPARTMENT OF TRANSPORTATION:
PROPER SHIPPING NAME:
D.O.T.: NOT REGULATED
FREIGHT CLASSIFICATION: CLASS 55
SPECIAL TRANSPORTATION NOTES: NONE

This information herein is given in good faith and believed current as the date of this MSDS. Because conditions of use are beyond our control, no guarantee, representation or warranty expressed or implied is made. Consult Titan Chemical Corporation for further information.
Date of preparation: January, 2001

Material Safety Data Sheet

Zep Inc.
1310 Seaboard Industrial Blvd.
Atlanta, GA 30318
1-877-I-BUY-ZEP (428-9937)
www.zep.com

Superior Solutions

SC-78 9

pH 12.5-13.5
D002
soap

Section 1. Chemical Product and Company Identification

Product name	**FORMULA 50**
Product use	General Purpose Cleaner
Product code	**0859**
Date of issue	**08/11/08** **Supersedes 04/14/03**

Emergency Telephone Numbers

For MSDS Information:
Compliance Services 1-877-I-BUY-ZEP (428-9937)

For Medical Emergency
INFOTRAC: (877) 541-2016 Toll Free - All Calls Recorded

For Transportation Emergency
CHEMTREC: (800) 424-9300 - All Calls Recorded
In the District of Columbia (202) 483-7616

Printing date: 08/11/08

Prepared By
Compliance Services
1420 Seaboard Industrial Blvd.
Atlanta, GA 30318

Section 2. Hazards Identification

Emergency overview

*Hazard Determination System (HDS): Health, Flammability, Reactivity

DANGER !

CAUSES EYE BURNS. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. HARMFUL IF SWALLOWED.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects **Routes of Entry** Dermal contact. Eye contact. Inhalation.

Eyes Causes eye burns. Direct contact with the eyes can cause irreversible damage, including blindness.

Skin Causes skin irritation. Prolonged exposure may result in skin burns and ulcerations. Harmful if absorbed through the skin. Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering.

Inhalation Avoid breathing vapors, spray or mists. Inhalation of the spray or mist may produce severe irritation of respiratory tract, characterized by coughing, choking or shortness of breath. Over-exposure by inhalation may cause respiratory irritation. Can cause central nervous system (CNS) depression.

Ingestion Harmful if swallowed. May cause burns to mouth, throat and stomach.

Chronic effects Overexposure of this product by inhalation or absorption can produce central nervous system depression resulting in headache, nausea and/or dizziness. Contains material which may cause damage to the following organs: blood, kidneys, liver, upper respiratory tract, skin, eyes, central nervous system (CNS).

Ingredients: Not listed as carcinogen by OSHA, NTP or IARC.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients	CAS number	% by Weight
ETHYLENE GLYCOL MONOBUTYL ETHER; 2-butoxyethanol; butyl cellosolve	111-76-2	1 - 5
SODIUM METASILICATE; silicic acid (H2-Si-O3) disodium salt; water glass	6834-92-0	1 - 5
SODIUM TRIPOLYPHOSPHATE	7758-29-4	1 - 5
DODECYL BENZENE SULFONIC ACID; alkyl aryl sulfonic acid	27176-87-0	1 - 5

Section 4. First Aid Measures

Eye Contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention immediately.

Skin Contact Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation develops.

Inhalation Move exposed person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. If affected person is conscious, give plenty of water to drink. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Section 5. Fire Fighting Measures

National Fire Protection Association (U.S.A.)

Flash Point None.

Flammable Limits Not applicable

Flammability Non-combustible.

Fire hazard In a fire or if heated, a pressure increase will occur and the container may burst. May emit toxic fumes under fire conditions.

Fire-Fighting Procedures Use an extinguishing agent suitable for the surrounding fire. Do not release runoff from fire to sewers or waterways.

Section 6. Accidental Release Measures

Spill Clean up Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and Storage

Handling Put on appropriate personal protective equipment (see section 8). Avoid contact with eyes, skin and clothing. Do not breathe vapor or mist. Use with adequate ventilation. Do not ingest. Do not reuse container. Wash thoroughly after handling. Observe label precautions.

Storage Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C). Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection

Product name	Exposure limits
ETHYLENE GLYCOL MONOBUTYL ETHER; 2-butoxyethanol; butyl cellosolve	**ACGIH TLV (United States).** TWA: 20 ppm 8 hour(s). Form: **OSHA PEL (United States). Skin** TWA: 50 ppm 8 hour(s). Form:
SODIUM METASILICATE; silicic acid (H2-Si-O3) disodium salt; water glass	**Supplier Suggested (United States).** CEIL: 2 mg/m³ Form:
SODIUM TRIPOLYPHOSPHATE	**ACGIH TLV / OSHA PEL (United States).** TWA: 5 mg/m³ 8 hour(s).
DODECYL BENZENE SULFONIC ACID; alkyl aryl sulfonic acid	**ACGIH / OSHA (United States).** TWA: 1 mg/m³ 8 hour(s). **ACGIH TLV (United States).** STEL: 3 mg/m³ 15 minute(s).

Personal Protective Equipment (PPE)

Eyes Splash goggles.

Body Wear appropriate protective clothing to prevent skin contact. Recommended: Neoprene gloves. Nitrile gloves. Rubber gloves. Synthetic apron.

Respiratory Use with adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Wear appropriate respirator when ventilation is inadequate.

Section 9. Physical and Chemical Properties

Physical State Liquid.

pH 12.5 - 13.5

Boiling Point 104.44°C (220°F)

Specific Gravity 1.07

Solubility Easily soluble in the following materials: cold water and hot water.

Color Clear. Blue. [Dark]

Odor Mild.

Vapor Pressure Not determined.

Vapor Density Not determined.

Evaporation Rate 1 (Water = 1)

VOC (Consumer) 42.3 (g/l). 0.35 lbs/gal (3.96%)

Section 10. Stability and Reactivity

Stability and Reactivity The product is stable.

Incompatibility Reactive or incompatible with the following materials: oxidizing materials and acids.

Hazardous Polymerization Will not occur.

Hazardous Decomposition Products carbon oxides (CO, CO_2)

Section 11. Toxicological Information

Acute Toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Ethylene Glycol Monobutyl Ether	LD50 Dermal	Rabbit	680 mg/kg	-
	LD50 Oral	Rat	1746 mg/kg	-
	LC50 Inhalation Vapor	Rat	450 ppm	4 hours
Sodium Metasilicate	LD50 Oral	Rat	1153 mg/kg	-
	LD50 Oral	Mouse	770 mg/kg	-
Sodium Tripolyphosphate	LD50 Dermal	Rabbit	>7940 mg/kg	-
	LD50 Oral	Rat	5400 mg/kg	-
Dodecylbenzene sulfonic acid	LD50 Oral	Rat	2140 mg/kg	-
	LC50 Inhalation Vapor	Rat	510 mg/m^3	2 hours
	LC50 Inhalation Vapor	Mouse	320 mg/m^3	2 hours

Section 12. Ecological Information

Environmental Effects No known significant effects or critical hazards.

Aquatic Ecotoxicity

Not available.

Section 13. Disposal Considerations

Waste Information

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities for additional information.

Waste Stream Code: D002
Classification: - [Hazardous waste]
Origin: - [RCRA waste.]

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label
DOT Classification	Not regulated.	Not a DOT controlled material (United States).			
IMDG Class	Not determined.				

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment.

PG* : Packing group

Section 15. Regulatory Information

U.S. Federal Regulations

SARA 313 toxic chemical notification and release reporting:

Product name

Ethylene Glycol Monobutyl Ether

Clean Water Act (CWA) 307: No products were found.

Clean Water Act (CWA) 311: Dodecylbenzene sulfonic acid (RQ 5000 lbs)

Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

All Components of this product are listed or exempt from listing on TSCA Inventory.

State Regulations

California Prop 65 No products were found.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**NOTE: Hazard Determination System (HDS) ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although these ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HDS ratings are to be used with a fully implemented program to relay the meanings of this scale.*