JOB NO. 4439 BASF
BARGE: ETT-112 11/94

HER 04048

8000704

HERCULES
OFFSHORE CORPORATION
Strength through experience, equipment, know-how
P.O. Drawer O
Freeport, Texas 77541
Office: (409) 233-6371
Fax: (409) 233-6375

FINAL CHECK LIST

DATE: 11-23-94

BARGE: ETT-112

BLND NUMBER CHECKED 2 REPLACED GASKET YES ___ NO ✓

GATE VALVE NUMBER CHECKED 5 REPLACED GASKET YES ___ NO ✓

PLUGS NUMBER CHECKED 1 REPLACED PLUG YES ___ NO ✓

* CLOSE SISTEM CHECK VALVE NUMBER CHECKED 1 REPLACED GASKET YES ___ NO ✓

DECK PUMP DEEPWELL BLIND NUMBER CHECKED Ø REPLACED GASKET YES ___ NO ✓

BELOW DECK CARGO PIPELINE BLIND NUMBER Ø REPLACED GASKET YES ___ NO ___

BELOW DECK CARGO PIPELINE BLIND REMOVED YES ✓ NO ___

DRIP PANS VALVES: CLOSED BY DID NOT OPEN

DRIP PANS COVER: CLOSED BY Ø

COMTAINMENT AREA PLUG OR VALVES: CLOSED BY Ø

AIR TEST CARGO LINE - 40psi - USING SOAP

SIGNATURE OF TESTER: [illegible]

WITNESS: Jimmy C. Jackson

* CHECK VALVE GASKET WILL BE REPLACED
* AIR TEST IS LAST THING TO BE DONE BEFORE RELEASING BARGE.

HERCULES
MARINE SERVICE CORP.
FREEPORT, TEXAS

FOREMAN'S DAILY TIME REPORT

JOB NO. 4439

DATE 11-23-94

CLASS NO. ET-112

DESCRIPTION OF WORK PERFORMED (BY FOREMAN)

BADGE NO.	NAME	DEBALLAST, STRIP AND BLOW DRY	NITROGEN PURGE SOME INFORMAL										TOTAL HOURS
[illegible]	G. DUARTE	5/6											11
272	J. L. RIVERA	/6											6
[illegible]	SAM PETTIT	4/6½											10
[illegible]	G. DE LA ROSA												
[illegible]	JOE G. TVAREZ	5/6											1
[illegible]	J. ON												
50	R. RIGUEZ												
18	TS GUEZ												
[illegible]	LA IGEF												
	TOTAL HOURS												49

HER 04050

CODED AND

APPROVED

HERCULES
MARINE SERVICES CORPORATION
P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. : 2710-94
DATE : Dec 6, 1994
Job No. : 4439-1
Location : Freeport Yard

TO: BASF
602 Copper Road
Freeport, Texas 77541

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

P. O. # F91392CB

Terms : Net 30

FOR: Services to the barge ETT-112 as follows:

Set up equipment
Strip out all free product
Blow cargo pipeline and stripping system
Vacuum blow dry cargo tanks
Wash and strip deck around engine and deck pump
Pressure test cargo pipeline to 40# psi
Sweep powder rust from cargo tank floors
Nitrogen purge to less than 6%
Clean off deck
Remove equipment
Close barge
Barge was inspected by Dahl and Co.

Labor:	Leadman	6 @ 33.50		$ 201.00
		5 @ 48.00		240.00
	Journey	18½ @ 31.00		573.50
		9 @ 44.25		398.25
Disposal:	300 gal	@ .35		105.00
Material:	2327.23	+ 465.44		2,792.67
Equip:				
	Compressor	8 @ 44.00		352.00
	Air Movers	8 @ 5.00		160.00
	Forklift	1 @ 20.00		20.00
	Vacuum	5 @ 18.00		90.00
	Hand Hose	2 @ 10.00		20.00
	3" Gas Pump	8 @ 14.00		112.00
	2" Strip pump	5 @ 12.00		60.00
			TOTAL AMOUNT DUE:	$ 5,124.42

Arrived: 11/23
Completed: 11/23
Product: Cyclo Load: N. Butanol

PHONE: (409) 233-6371

HER 04051

Strength through Experience, Equipment, Know-How

MOORE MARINE CHEMIST

INVOICE NO.
DATE

TO:

Description	Amount
CERTIFICATE ON THE VESSEL ETT 112 IN FREEPORT TEXAS ON 23 NOV 94	
	250.00

Subtotal	250.00
Total	$250.00

Amount Paid $0
Amount Due $250.00

STATEMENT

0 - 30 days	31 - 60 days	61 - 90 days	over 90 days
[illegible]	$3,000.00	$0.00	$0.00

HER 04052

[illegible] MARINE CHEMIST

[illegible] 77541

INVOICE [illegible]
DATE [illegible]

[illegible]
[illegible] OPERATOR [illegible]
[illegible] TEXAS 77541

Description	Amount
CHEMIST CERTIFICATE ON THE VESSEL ETT-111 [illegible] IN FREEPORT TEXAS ON 23 NOV 94 [illegible]	
[illegible]	250.00
Subtotal	250.00
Total	$250.00

[illegible] Paid $0
Amount Due $250.00

[illegible]

[illegible] 30 days	31 - 60 days	61 - 90 days	over 90 days
[illegible]	$3,000.00	$0.00	$0.00

HER 04053

HERCULES
MARINE SERVICES CORPORATION

Strength through environmental awareness and customer service

P.O. Drawer O
Freeport, Texas 77541

Office (409) 233-6371
Fax. (409) 233-6375

	EQUIPMENT	HOURS USED	HOURLY RATE	TOTAL PRICE
1-	COMPRESSOR	8	44.00	
4-	AIR MOVERS	8 HRS EA 32	5.00	
	VACUUM	5 HR	20.00	
	BOILER		80.00	
	HAND HOSE	2 HR	10.00	
	BUTTERWORTH		10.00	
1-	2" STRIP PUMP	5 HR	12.00	
2-	3" DIESEL PUMP	HRS EA 8 HRS	14.00	
	4" ELECT PUMP		15.00	
	CRANE		130.00	
	CHERRYPICKER		50.00	
	FORKLIFT	1 HR	20.00	
	TUG BOAT		80.00	
	WELD MACHINE		15.00	
	CUTTING RIG		8.00	
	WORK BARGE		35.00	
	HAUL OUT		1100.00	

DATE: 11-23-94 JOB NO: H439 BARGE NAME: ETT-112

HER 04054

JOB NO. _____ ETA _____

BARGE NO. ETT = 112 DATE/TIME ARRIVAL 11-23-94 8:30AM

CUSTOMER BASF DATE/TIME STARTED 11-23-94 8:30AM

PRODUCT Cyclohexane DATE/TIME COMPLETED 11-23-94 8:30PM

DISPOSAL AMOUNT 300 AMOUNT STRIPPED _____

CLEANING INSTRUCTION BY: GAS FREE NITROGEN PURGE BY: M. HANNA

COMPLETION SCHEDULE BY: M. HANNA

OVERTIME AUTHORIZED BY: _____

BARGE INSPECTED BY: Claudia Curti / DRUD DATE/TIME: _____

BARGE RELEASED TO: _____ DATE/TIME: _____

System Closed
DEEPWELL OPENED: YES ____ NO ____ CLOSED BY _____ NEW GASKET ____ YES ____ NO ____

BELOW DECK CARGO PIPELINE: BLIND OPEN YES ✓ NO ____ CLOSED BY ____ NEW GASKET ____ YES ____ NO ____

Closed System
DECK CHECK VALVE OPENED: YES ____ NO ____ CLOSED BY ____ NEW GASKET ____ YES ____ NO ____

DECK HEADER BLINDS OPEN: YES ✓ NO ____ CLOSED BY ____ NEW GASKET ____ YES ____ NO ____

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ____ CLOSED BY ____

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ____ CLOSED BY _____ NEW GASKET ____ YES ____ NO ____

RUST SCALE: YES ____ NO ✓ WASHED OUT ____ BUCKETED OUT _____

NUMBER OF CARGO TANKS 3

CONDITION OF CARGO VALVES Good

SLOP TANK STRIPPED: YES ____ NO ✓ PIPE PRESSURE TEST DATE: _____

DRIP PANS STRIPPED: YES ✓ NO ____

WEATHER: TEMP 60 RAIN ____ FOG ____ HUMIDITY ____ OVERCAST ✓ CLOUDY ____ CLEAR ____

PIPELINE WASHED: No PIPELINE BLOWN yes PIPELINE SUMPS INSPECTED Duarte

BOW RAKE CHECKED: YES ✓ NO ____ STERN RAKE: YES ✓ NO ____

VOIDS: YES ✓ NO ____ SAFETY EQUIPMENT USED: _____

****

WORK SCOPE

BARGE WAS INSPECTED
DAHL AND COMPANY

SETUP EQUIPMENT
STRIP OUT ALL FREE PRODUCT
BLOW CARGO PIPELINE AND STRIPPING SYSTEM
VACUUM BLOW DRY CARGO TANKS
WASH AND STRIP DECK AROUND ENGINE & DECK A
PRESSURE TEST CARGO PIPELINE TO 40 PSI
SWEEP POWDER RUST FROM CARGO TANK FLOORS
NITROGEN PURGE TO LESS THAN 6%
CLEAN OFF DECK
REMOVE EQUIPMENT
CLOSE BARGE

HER 04055

HERCULES
MARINE SERVICES CORPORATION

PURCHASE ORDER

P.M. NO.	4439-89910
VENDOR	Air Liquide
TERMS	30
F.O.B.	Yard
VIA	
SHIP DATE	11/28/94

JOB	DATE 11/23/94	REQ. NO.	
DATE MATERIAL REQ'D		PREPARED BY: Sylvia	
NOTIFY: Jimmy		DELIVER TO: Marine	
REQUIRED FOR ETT-112			
DATE RECEIVED 1.	DATE RECEIVED 2.	DATE RECEIVED 3.	

ITEM	QUANTITY ORDERED	QUANTITY RECEIVED	SHIP. NO.	DESCRIPTION — FULL DETAIL REQUIRED	COST CODE		UNIT	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
1	1			Nitrogen Purge	85	10			1827.28		
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											

RECEIVED BY:	APPROVED BY Jimmy C Jackson	TOTALS			
DATE RECEIVED	APPROVED BY	BUYER / DATE	/	/	/

HER 04056

HERCULES
MARINE SERVICES CORPORATION

PURCHASE ORDER

P.M. NO.	4439-89910
VENDOR	Air Liquide
TERMS	30
F.O.B.	Yard
VIA	
SHIP DATE	11/28/94

JOB	DATE 11/23/94	REQ NO.	
DATE MATERIAL REQ'D.		PREPARED BY: Sylvia	
NOTIFY: Jimmy		DELIVER TO: Marine	
REQUIRED FOR ETT-112			
DATE RECEIVED 1.	DATE RECEIVED 2.	DATE RECEIVED 3.	

ITEM	QUANTITY ORDERED	QUANTITY RECEIVED	SHIP. NO.	DESCRIPTION — FULL DETAIL REQUIRED	COST CODE		UNIT	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
1	1			Nitrogen Purge	85	10			1827.23		
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											

RECEIVED BY:	APPROVED BY Jimmy C Jackson	TOTALS		
DATE RECEIVED	APPROVED BY	BUYER / DATE	/	/

HER 04057

AIR LIQUIDE

AIR LIQUIDE AMERICA CORPORATION
P.O. BOX 3047
HOUSTON, TEXAS 77253
PHONE (713) 869-0393

REMIT PAYMENT TO:
AIR LIQUIDE AMERICA CORPORATION
P. O. Box 200411
HOUSTON, TEXAS 77216-0411

TERMS: NET CASH 30 DAYS

INVOICE INQUIRIES CALL:
(713) 896-2100

Please Return One Copy Of This Invoice With Your Remittance

SOLD TO:
38242603
HERCULES OFFSHORE DRILLING
MARINE DIVISION
DRAWER O
FREEPORT TX 77541

SHIPPED TO:
BARGE DOCKS
PURGE BARGE
FREEPORT TX77541

							INVOICE #
4439-89909	JIMMY	11 23 94	002421	118	118	11/30/94	744209

994928	SERVICE CHARGE	1.00	650.0000	E		650.00
994928	PUMPER HOURS	2.50	60.0000	E		150.00
994928	PUMPER MILEAGE	150.00	1.8000	E		270.00
000714	LIQUID NITROGEN	65520.00	1.1500	L		753.48
000244	GOVT REGULATORY COMPLIANCE	2.50	1.5000	E		3.75

IMPORANT NOTICE: YOU HAVE BEEN PROVIDED WITH MATERIAL SAFETY DATA SHEETS FOR THE PRODUCT(S) LISTED. IF YOU NEED ADDITIONAL COPIES PLEASE CALL US AT 1-800-231-1366.

"It Is A Pleasure & A Privilege To Serve Your Needs."

UNIT OF MEASURE LEGEND

E. EACH	D. POUND	F. FEET	P. PAIR
A. CYLINDER	B. CUBIC FEET	C. P/100	M. P/1000
G. GALLON	T. TON	K. LITER	H. OUNCE

1,827.23	EXEMPT	.00	1,827.23

M NO. W. SUP (Rev. 1/94)

RECEIVING ADDRESS: 3602 West 11th Street Houston, Texas 77008

STATEMENTS ISSUED ONLY ON REQUEST

PAY THIS AMOUNT

HER 04058

SHIPPING ORDER

DATE ORDERED 11-23-94
WRITTEN BY E. Bolden
DATE SHIPPED 11-23-94

Big Three Merchant Gases and Equipment, Inc.

Industrial Nitrogen Services

General Office: P.O. BOX 3047 HOUSTON, TEXAS 77253 713/868-0333
Remit Payment to: P.O. BOX 200411 HOUSTON, TEXAS 77216-0411

SHIPPERS ORDER NO. 118- 002421
INVOICE DATE
INVOICE NO.

SOLD TO: Account No. 38242603
Customer Hercules Offshore
Address Drawer O
City Freeport State TX Zip 77541

SHIP TO: Customer HERCULES OFFSHORE
Location HERCULES DOCKS
Unit Name BARGE DOCKS
Services Rendered PURGE BARGE
City FREEPORT State TX Zip 77541

CUSTOMER ORDER NO.	ORDERED BY	ORIGIN	FROM	TO	TAX %	CREDIT APPROVAL
4439-89909	Jimmy	118	118	118	E	

WARNING
1. PRE-JOB DISCUSSION WAS HELD & SAFETY CHECK LIST COMPLETED. — INITIAL
2. CUSTOMER HAS RECEIVED A COPY OF SAFETY PRECAUTIONS. — INITIAL

WARNING

THE UNDERSIGNED CUSTOMER AGREES TO BIG THREE INDUSTRIES' GENERAL TERMS AND CONDITIONS OF SERVICE INCLUDING THOSE APPEARING ON THE REVERSE HEREOF:

AUTHORIZED SIGNATURE: Gady W. Honor — TITLE: X Dispatcher — DATE: 11-23-94

QUANTITY ORDERED	PART NO.	DESCRIPTION	QUANTITY SHIPPED	UNIT COST	UNIT	TAX	AMOUNT
	994928	Service Charge 1	1	650.00	E		650.00
	994928	Time Charges Pumper 2.5 HRS	2.5	60.00	E		150.00
		Time Charges Transport					
	994928	Mileage Pumper 150 R/T	150	1.80	E		270.00
		Mileage Transport					
	714	Nitrogen Charges 65.520 SCF	65,520	1.15	C		753.48
		2.5 HRS					
	244	GOVERNMENT AGENCY REGULATORY COMPLIANCE CHARGE	2.5	1.50	E		3.75
		Subtotal				10%	1821.23
		Tax					
		Total					

Credit 162 ☐ 210 Pressure Test/purge ☐ 220 Cool down ☐ 230 Regeneration ☐ 240 Dryout ☐ 250 Saltdome ☐ 270 Pipeline ☑ 280 Ship Purge

EQUIPMENT	UNIT 1	TYPE	UNIT 2	TYPE	UNIT 3	TYPE	UNIT 4	TYPE
Unit No. & Type	3258	STD						
Date & Time Started	11-23-94	4:00P						
Date & Time Completed	11-23-94	6:30P						
TOTAL N_2 UNIT HOURS		2.5P						
Rate SCFM	300 TO 800							
TOTAL N_2 USED	65.520							

EQUIPMENT MILEAGE

Roundtrip Miles From: BAYPORT TX
TOTAL CHARGEABLE MILES 750 X No. of Units 1 = 150 R/T Miles

TRANSPORT MILEAGE AND TIME

Roundtrip Miles From:
TOTAL CHARGEABLE MILES X No. of Transports
Total Transport Time On Site
Total Chargeable Transport Time

I hereby acknowledge that the above information is correct, and the services have been completed.

Authorized Signature Gady W. Honor
Title X Date 11-23-94

Big Three Operators: CHESTER
Remarks:

Chester Bolden
Big Three I.N.S. Representative

HER 04059

HAZARDS COMMUNICATION STANDARD

OSHA 1910.1200

EMPLOYEE HAZARDOUS MATERIALS TRAINING PROGRAM

Date 11-23-94 Supervisor CLAUDIA DUARTE

Plant HERCULES Client Safety

Area GAS Fire Dock
EFT-112

The following listed materials are considered to be hazardous to the employees working in this area:

CYCLOHEXANE

The employees assigned to work in this area have been informed of the hazardous materials in this area, the hazards they present to the workers, the location of hazards listed, the protective equipment that has been provided and where it is located, and procedures to be followed in case of an accidental exposure. I have received the training listed above and will so designate by signing this form.

NAME	BADGE	NAME	BADGE
Claudia Duarte	179		
[illegible]	40		
[illegible]	41		
[illegible]	275		
Jimmy C. Jackson			

HER 04060

HERCULES
MARINE SERVICES CORPORATION

PURCHASE ORDER

P.M. NO.	4459-89912
VENDOR	Erie Moore
TERMS	30
F.O.B.	Yard
VIA	
SHIP DATE	11/23/94

JOB	DATE 11/23/94	REQ. NO.	
DATE MATERIAL REQ'D.		PREPARED BY: Sylvia	
NOTIFY: Jimmy		DELIVER TO: Marine	
REQUIRED FOR ETT-112			
DATE RECEIVED 1.	DATE RECEIVED 2.	DATE RECEIVED 3.	

ITEM	QUANTITY ORDERED	QUANTITY RECEIVED	SHIP. NO.	DESCRIPTION — FULL DETAIL REQUIRED	COST CODE		UNIT	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
1	1			marine Chemist	15	11			250.00		
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											
13											
14											

RECEIVED BY:	APPROVED BY Jimmy C Jackson	TOTALS	
DATE RECEIVED	APPROVED BY	BUYER / DATE	/ /

HER 04061

HERCULES
MARINE SERVICES CORPORATION

PURCHASE ORDER

P.M. NO.	4439-89911
VENDOR	Eric Moore
TERMS	30
F.O.B.	Yard
VIA	
SHIP DATE	11/23/94

JOB	DATE 11/23/94	REQ. NO.	
DATE MATERIAL REQ'D.		PREPARED BY Sylvia	
NOTIFY Jerry		DELIVER TO: Marine	
REQUIRED FOR			
DATE RECEIVED 1	DATE RECEIVED 2	DATE RECEIVED 3	

ITEM	QUANTITY ORDERED	QUANTITY RECEIVED	SHIP. NO.	DESCRIPTION — FULL DETAIL REQUIRED		COST CODE		UNIT	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
1	1			Marine	Chemist	85	10			250.00		
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												

RECEIVED BY:	APPROVED BY Jimmy C. Jackson	TOTALS	
DATE RECEIVED	APPROVED BY	BUYER / DATE	/

HER 04062

December 31, 1990

USA and WORLDWIDE

Material Safety Data Sheet

CYCLOHEXANE (98%, 99.5%, 99.8%, Research Grade, Spectro Grade)

PHILLIPS 66 COMPANY
A Subsidiary of Phillips Petroleum Company
Bartlesville, Oklahoma 74004

PHONE NUMBERS
Emergency:
Business Hours (918) 661-3865
After Hours (918) 661-8118
General MSDS Information:
(918) 661-8327

A. Product Identification

Synonyms: Borger Refinery Stream No. 657; Sweeny Refinery Unit 19 Cyclohexane Product; Puerto Rico Core Stream No. 3216; Unit 3.2 Stabilizer Column Bottoms (Puerto Rico Core)
Chemical Name: Cyclohexane
Chemical Family: Cycloparaffinic Hydrocarbon
Chemical Formula: C6H12
CAS Reg. No.: 110-82-7
Product No.: N249,N24500,N24842

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 is subject to all applicable provisions and restrictions of 40 CFR, section 721 and 723.250.

B. Hazardous Components

Ingredients	CAS Number	% By Wt.	OSHA PEL	ACGIH TLV
Cyclohexane	110-82-7	*	300 ppm	300 ppm

* See Section N for additional product composition information.

HER 04063

NA - Not Applicable NE - Not Established

C. Personal Protection Information

Ventilation: Use adequate ventilation to control exposure below recommended levels.

Respiratory Protection: For concentrations exceeding the recommended exposure level, use NIOSH/MSHA approved air purifying respirator. In case of spill or leak resulting in unknown concentration, use NIOSH/MSHA approved supplied air respirator. If conditions immediately dangerous to life or health (IDLH) exist, use NIOSH/MSHA approved self-contained breathing apparatus (SCBA).

Eye Protection: Use safety glasses with side shields.

Skin Protection: Wear polyvinyl alcohol or Buna-N gloves. Use full-body, long sleeved garments to prevent 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

Avoid inhalation and skin and eye contact. Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Wash thoroughly after handling. Provide means of controlling leaks and spills. Immediately remove and launder contaminated clothing before reuse.

Store in a cool, well-ventilated area away from ignition sources. Provide means of controlling leaks and spills. Bond and ground during liquid transfer. Keep containers closed.

E. Reactivity Data

Stability: Stable
Conditions to Avoid: Not Applicable
Incompatibility (Materials to Avoid): Oxygen and strong oxidizing materials

Hazardous Polymerization: Will Not Occur
Hazardous Decomposition Products: Carbon oxides and various hydrocarbons formed when burned.

F. Health Hazard Data

Recommended Exposure Limits:

See Section B.

HER 04064

Acute Effects of Overexposure:

Eye: Contact with the liquid or high vapor concentrations may cause mild eye irritation including redness, swelling of mucous membranes and tearing.

Skin: Nominal skin absorption. May defat skin upon repeated or prolonged contact resulting in redness, swelling, pain or thickening. Prolonged exposure to high vapor concentrations may cause a mild mucous membrane irritation.

Inhalation: High vapor concentrations may cause dizziness, excitement, hyperactivity, rapid breathing, difficulty breathing, fatigue, headache, incoordination, tremors, nausea and respiratory irritation. Extreme exposures may cause anesthesia, unconsciousness and death.

Ingestion: May cause increased respiration rate, fatigue, diarrhea, nausea and central nervous system depression. Extreme exposure may cause circulatory collapse and death. May be aspirated into lungs if swallowed, resulting in pulmonary edema and chemical pneumonitis.

Subchronic and Chronic Effects of Overexposure:

No known applicable information.

Other Health Effects:

No known applicable information.

Health Hazard Categories:

	Animal	Human		Animal	Human
Known Carcinogen	___	___	Toxic	___	___
Suspect Carcinogen	___	___	Corrosive	___	___
Mutagen	___	___	Irritant	___	___
Teratogen	___	___	Target Organ Toxin	_X_	_X_
Allergic Sensitizer	___	___	Specify - Lung - Aspiration Hazard		
Highly Toxic	___	___			

First Aid and Emergency Procedures:

Eye: Flush eyes with water.

Skin: Flush skin with water for fifteen minutes.

Inhalation: Remove from exposure. If breathing is difficult, give oxygen and seek medical attention.

Ingestion: Do not induce vomiting. Seek immediate medical assistance.

Note to Physician: Gastric lavage using a cuffed endotracheal tube may be performed at your discretion.

G. Physical Data

Appearance:	Colorless Liquid
Odor:	Pungent
Boiling Point:	Approx. 177F (81C)
Vapor Pressure:	3.2 psia (165 mm Hg) at 100F
Vapor Density (Air = 1):	2.8
Solubility in Water:	Negligible
Specific Gravity (H2O = 1):	0.77 at 60/60F
Percent Volatile by Volume:	100
Evaporation Rate (Butyl Acetate = 1):	>1
Viscosity:	Not Established

H. Fire and Explosion Data

Flash Point (Method Used):	-4F (-20C) (TCC, ASTM D56)
Flammable Limits (% by Volume in Air):	LEL - 1.3 UEL - 8.0
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/MSHA 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 oxides and various hydrocarbons formed when burned. Highly flammable vapors which are heavier than air may accumulate in low areas and/or spread along ground away from handling site. Flash back along vapor trail is possible.

I. Spill, Leak and Disposal Procedures

Precautions Required if Material is Released or Spilled:
Evacuate area of all unnecessary personnel. In case of spill or leak resulting in unknown concentration, use NIOSH/MSHA approved supplied air respirator. In case of spill or leak which results in conditions immediately dangerous to life or health (IDLH) use NIOSH/MSHA approved self-contained breathing apparatus (SCBA) equipment. When entry into or exit from concentrations of unknown exposure, use NIOSH/MSHA approved self-contained breathing apparatus (SCBA). Shut off source, if possible and contain spill. Protect from ignition. Keep out of water sources and sewers. Absorb in dry, inert material. Transfer to disposal drums using non-sparking equipment.

Waste Disposal (Insure Conformity with all Applicable Disposal Regulations):
Incinerate or place in RCRA permitted waste management facility.

J. DOT Transportation

Shipping Name: Cyclohexane
Hazard Class: Flammable Liquid
ID Number: UN 1145
Marking: Cyclohexane/UN 1145
Label: Flammable Liquid
Placard: Flammable/1145
Hazardous Substance/RQ: Not Applicable
Shipping Description: Cyclohexane, Flammable Liquid, UN 1145
Packaging References: 49 CFR 173.118 and 173.119(a)

K. RCRA Classification - Unadulterated Product as a Waste

U056-Cyclohexane; Ignitable

L. Protection Required for Work on Contaminated Equipment

Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Use NIOSH/MSHA approved respiratory protection, such as air-supplied mask, in confined spaces or other poorly ventilated areas. See Protective Clothing Requirements. Contact immediate supervisor for specific instructions before work is initiated.

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):

___ Combustible Liquid	___ Flammable Aerosol	___ Oxidizer
___ Compressed Gas	___ Explosive	___ Pyrophoric
___ Flammable Gas	_X_ Health Hazard (Section F)	___ Unstable
_X_ 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.

N. *Additional Comments*

Additional Product Composition Information:

	Ingredient	% By Wt.
98.0%	Cyclohexane	98.7
	Methylcyclopentane	0.8
	Methylhexanes	0.3
	Dimethylpentane	0.2
99.5%	Cyclohexane	99.8
	Related Hydrocarbons	0.2
99.8%	Cyclohexane	99.9
	Related Hydrocarbons	0.1
Research and Spectro Grades	Cyclohexane	99.98
	2,4-Dimethylpentane	0.01
	3,3-Dimethylpentane	0.01

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):

Cyclohexane

Phillips Petroleum Company (references to Phillips Petroleum Company or Phillips includes it's divisions, affiliates and subsidiaries) believes that the information contained herein (including data and statements) is accurate as of the date hereof. NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE AS CONCERNS THE INFORMATION HEREIN PROVIDED. The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use of the product and information referred to herein are beyond the control of Phillips, Phillips expressly disclaims any and all liability as to any results obtained or arising from any use of the product or such information. No statement made herein shall be construed as a permission or recommendation for the use of any product in a manner that might infringe existing patents.

HERCULES OFFSHORE CO.

INVOICE NO. _____

MARINE REPAIR ORDER No. 4439

MARINE OPERATIONS FACILITY

CUSTOMER P.O. _____

DATE

ORDER WRITTEN: 11-23-94
ETA:
ARRIVAL: 11-23-94 8:30 AM
COMPLETION DATE:
DEPARTURE DATE:

M/V ☐ BARGE ☑
NAME: FTT-112
LOA:
WIDTH:

FOREMAN: T. JACKSON
LAST PRODUCT: CYCLO TO N. BUTANOL

GAS FREEING YES ☑ NO ☐
CERTIFICATE REQUIRED YES ☑ NO ☐

HAUL OUT FOR INSPECTION AND REPAIR YES ☐ NO ☐

ON WAYS DATE: _____

ON WAYS DATE: _____

CUSTOMER

NAME: BASF
BILLING ADDRESS:
CITY AND STATE:
PHONE NUMBER:

WORK AUTHORIZED BY: M. HAUWA
O/T AUTHORIZED BY: M. HAUWA

STOCK MATERIAL ☐ YES ☐ NO

IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET

OUTSIDE SERVICES IF YES, LIST ☐ YES ☐ NO

ITEM NUMBERS

1 GAS FREE

2 OF BALLAST

3

4 4439-89910

5 89911

6 89912

7

8

9

10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: _____ Date: _____

HER 04069

JOB WORKSCOPE/BREAKDOWN

JOB NO: 4439 CUSTOMER: BASF BARGE: ET-112

FOREMAN:	S/T	@ 36.00		$
	O/T	@ 51.75		
LEADMAN:	S/T 6	@ 33.50		201.00
	O/T 5	@ 48.00		240.00
JOURNEY:	S/T 18 1/2	@ 31.00		573.50
	O/T 9	@ 44.25		398.25
DISPOSAL:	300	gal @ .35		105.00
? MATERIAL:	2327.23 ~~2500.00~~	plus 20%	465.44 ~~500.00~~	2792.67 ~~3,000.00~~
STOCK MATERIAL:		PLUS 20%		

EQUIP:

COMPRESSOR	8	@ 44.00	352.00
AIR MOVERS	32	@ 5.00	160.00
FORKLIFT	1	@ 20.00	20.00
TUGBOAT		@ 80.00	
STEAM RIG		@ 80.00	
VACUUM	5	@ 18.00	90.00
HAND HOSE	2	@ 10.00	20.00
WELDING MACHINE		@ 15.00	
CHERRYPICKER		@ 50.00	
CRANE		@ 130.00	
FLATBED TRUCK		@ 20.00	
3" GAS PUMP	8	@ 14.00	112.00
2" STRIPPING PUMP	5	@ 12.00	60.00
BUTTERWORTH		@ 10.00	
4" ELECT PUMP		@ 15.00	
WORK BARGE		@ 35.00	
CUTTING RIG		@ 8.00	
HAUL OUT		@1100.00 / Day	

Clean

ARRIVED: 11/23 COMPLETED: 11/23 DEPARTED:

PRODUCT: Cyclo LOAD: N. Butanol

TOTAL INVOICE : 5,124.42 ~~5,331.25~~

HER 04070

HERCULES OFFSHORE CO.

INVOICE NO. _____

MARINE REPAIR ORDER No. 4439

MARINE OPERATIONS FACILITY

CUSTOMER P.O. _____

DATE

ORDER WRITTEN: 11-23-94 | ETA:

ARRIVAL: 11-23-94 8:30 AM

COMPLETION DATE:

DEPARTURE DATE:

M/V ☐ BARGE ☑

NAME: ETT-112

LOA: | WIDTH:

FOREMAN: T. JACKSON

LAST PRODUCT: CYCLO TO N. BUTANOL

GAS FREEING YES ☑ NO ☐ CERTIFICATE REQUIRED YES ☑ NO ☐

HAUL OUT FOR INSPECTION AND REPAIR YES ☐ NO ☐

ON WAYS DATE: _____

ON WAYS DATE: _____

CUSTOMER

NAME: BASF

BILLING ADDRESS:

CITY AND STATE:

PHONE NUMBER:

WORK AUTHORIZED BY: M. HAUWA | O/T AUTHORIZED BY: M. HAUWA

STOCK MATERIAL ☐ YES ☐ NO

IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET

OUTSIDE SERVICES IF YES, LIST ☐ YES ☐ NO

ITEM NUMBERS

1 GAS FREE

2 DE BALLAST

3

4

5

6

7

8

9

10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: _____ Date: _____

HER 04071

ERIC [illegible]

MARINE CHEMIST CERTIFICATE

SERIAL NO. G 16268

[illegible]	[illegible]	[illegible]
Survey Requested by	Vessel Owner or Agent	Date
ERIC	[illegible]	[illegible]
Vessel	Type of Vessel	Specific Location of Vessel
[illegible]	[illegible]	1430
Last Three (3) Cargoes	Tests Performed	Time Survey Completed

CARGO TANKS NO. 1 2 & 3

SLOP TANKS NO. 1 2 3 & 4 - PORT

& STARBOARD

DOUBLE BOTTOM

STEERING GEAR

SAFE FOR WORKERS

SAFE FOR HOT WORK

ATMOSPHERIC TEST 20.8% O_2

0% LEL

P.O. 4439-89911

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Movement of vessels from original location, transfer of ballast, or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

SAFE FOR REPAIR YARD ENTRY: Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

"The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued."

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed [illegible] Date

Signed [illegible] Marine Chemist Certificate [illegible]

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

20M-2-88

Printed in U.S.A.

HER 04072

ERIC MOORE
713-520-5479

MARINE CHEMIST CERTIFICATE

SERIAL NO. G 16269

JACKSON	HERCULES	23 JUN 94
Survey Requested by	Vessel Owner or Agent	Date
ETT 112	TANK BINGE	HERCULES
Vessel	Type of Vessel	Specific Location of Vessel
CYCLOHEXANE	LEL-O-VISUAL	17.40
Last Three (3) Cargoes	Tests Performed	Time Survey Completed

CARGO TANKS No 1, 2 & 3 -- - DUST TO LESS THAN 6% O_2

P.O. 4439-89912

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Movement of vessels from original location, transfer of ballast, or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate, and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

SAFE FOR REPAIR YARD ENTRY: Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued.

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed Jimmy C Jackson (Name) Company Date

Signed Eric Moore (Marine Chemist) 1826 (Certificate No.)

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

Printed in U.S.A.

HER 04073

HERCULES OFFSHORE CORPORATION
MARINE DIVISION
JOB COST WORKSHEET

Job #: 4439
Date Started: November 23, 1994
Job Type: CLEANING
Customer: BASF

Invoice #:
Date Finished: November 23, 1994

Barge Name/#: ETT-112

Estimated Materials :		TOTAL Materials :	2,500.00
Estimated Labor :		TOTAL Labor :	692.02
Estimated Waste Water :		TOTAL Waste Water :	105.00
Total Estimated Cost :	0.00	TOTAL JOB COST :	3,297.02
		AMOUNT BILLED :	5,331.75
		PROFIT/(LOSS) :	2,034.73

WASTE WATER DISPOSAL

# of Gallons: 300 x @ 0.35 per gallon = $: 105.00

MATERIALS

Invoice #	Vendor	P.O. #	Amount
	ERIC MOORE	890910	250.00
	ERIC MOORE	89911	250.00
	AIR LIQUIDE	89912	2,000.00

MATERIALS con't

Invoice #	Vendor	P.O. #	Amount

TOTAL MATERIALS : 2,500.00

LABOR HOURS

Emp#	Employee Name	Init	Pay1	Hours	Total	Pay2	Hours	Total
179	DUARTE	C						
272	RIVERA	J						
41	PETTIT	S						
40	OLIVAREZ	J						
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00

LABOR HOURS con't

Emp#	Employee Name	Init	Pay1	Hours	Total	Pay2	Hours	Total
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00

HERCULES OFFSHORE CORPORATION
MARINE DIVISION
JOB COST WORKSHEET

Job #: 4412 | Invoice #:
Date Started: October 26, 1994 | Date Finished: October 26, 1994
Job Type: CLEANING
Customer: DIXIE CARRIERS | Barge Name/#: DMI-1121

Estimated Materials :		TOTAL Materials :	0.00
Estimated Labor :		TOTAL Labor :	396.69
Estimated Waste Water:		TOTAL Waste Water :	87.50
Total Estimated Cost :	0.00	TOTAL JOB COST :	484.19
		AMOUNT BILLED :	1,800.00
		PROFIT/(LOSS) :	1,315.81

WASTE WATER DISPOSAL

# of Gallons: 250 x $ 0.35 per gallon = $: 87.50

MATERIALS

Invoice #	Vendor	P.O. #	Amount

MATERIALS con't

Invoice #	Vendor	P.O. #	Amount

TOTAL MATERIALS : 0.00

LABOR HOURS

Emp#	Employee Name	Init	Pay1	Hours	Total	Pay2	Hours	Total
179	DUARTE	C						
272	RIVERA	J						
41	PETTIT	S						
40	OLIVAREZ	J						
25	JACKSON	J						
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00

LABOR HOURS con't

Emp#	Employee Name	Init	Pay1	Hours	Total	Pay2	Hours	Total
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
					0.00			0.00
			TOTAL					

HER 04086