ThermalKEM *An American NuKEM Company*

ThermalKEM Inc.
454 S. Anderson Road, BTC 532
Rock Hill, SC 29730
803/329-9690

Date: February 27, 1990

Mr. Dwayne Harrington
USEPA Reg. II/Synkote Paint
Woodbridge Avenue
Edison, NJ 08837

Re: ST - SEE LIST BELOW
Generator: USEPA Reg. II/Synkote Paint
Broker: S & D Engineering
Approved for receipt at ThermalKEM, Inc.
after 2-21-90

The South Carolina Department of Health and Environmental Control requires that TSD facilities return to the generator and/or broker a signed copy of the Authorization Request Form (ARF) for all waste streams accepted for treatment, storage, or disposal. Attached to this letter is a copy of the ARF for your records.

ThermalKEM, Inc.

Attachment

ST 88886-1054
88886-1055
88886-1057
88886-1058
88886-1061

268869

WASTE CHARACTERIZATION FORM

14 Drums

Anal. # ⇒ A960158-227

S&D # ⇒ Comp. A

Authorization Number: ST - 88886 - 1054

NOTE: All items should be accurately completed to assure you obtain the most rapid waste approval.

PEEL OFF LABEL ~~SAMPLE RECEIVED~~ ~~STICK ON SAMPLE CONTAINER~~

FEB 15 1990

1 Generator Information:

Generator US EPA ID # NJD001394040 Generator Name: USEPA Reg. II / Synkote Paint ~~Synkote Paint Company/USEPA Region II~~

Address 144-160 Van Riper Avenue City Elmwood PARK State NJ Zip Code 07407

USEPA Reg. II/Woodbridge Ave., Edison NJ 08837

Official Contact D. Harrington Title O.S.C. Telephone (201) 906-6899

SC County (For In-State Generator Only)

2 Broker Information:

Name: S & D Engineering Official Contact: George Press Telephone: (201) 549-8778

Address: ~~173 Essex Avenue~~ 2 Gourmet Lane City: ~~Metuchen~~ Edison State: NJ Zip: ~~08840~~ 0883

3 General Waste Information:

DOT Shipping Name: Waste Flammable Liquid, N.O.S. DOT Hazard Class: Flammable UN/NA # 1993

4 Physical State:

☐ Powder ☐ Paste ☐ Solid ☒ Liquid ☐ Slurry ☐ Resins ☐ Aerosols ☐ Lab Pack ☐ Gas (Cylinder) ☐ Other:

5 Inorganics Present:

Total Fluorine <1 % Total Bromine <1 % Cyanide <1 %

Nitric Acid <1 % Chromic Acid <1 % Sulfur <1 %

Sodium Hydroxide <1 % Potassium Hydroxide <1 %

6 Organics Present:

PCB <2 ppm

Dioxins — ppm

Furans — ppm

7 Reactivity:

Is waste reactive under 40 CFR 261.23? ☐ Yes ☒ No

8 Carcinogens: Circle if present: arsenic, asbestos, benzene, benzidene, beryllium, bis (chloromethyl) ether, diethylstilbesterol, 2-naphthylamine, nickel, vinyl chloride, chromium (VI), acrylonitril, cylcophosphamide, 1, 2,-diphenyl hydrazine, ethylene oxide, melphalan.

9 Biological, Pathological or Etiological Materials: List any present: None

10 Authorization To Correct ARF:

I authorize ThermalKEM to make corrections to the attached Authorization Request Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of South Carolina DHEC. I understand that a corrected copy will be sent to me.

Signature: [signature] Title: EPA - OSC Date: 2/9/90

11 Certification For Non-Hazardous Waste:

I certify that to the best of my knowledge the information provided hereon is correct, and the waste is non-hazardous by RCRA definition. Non-hazardous wastes do not require shipment approval by South Carolina Department of Solid and Hazardous Waste.

Signature: Title: Date:

12 American NuKEM Representative: D. Jones Code: 111E

☒ Rock Hill, SC (803) 329-9690 ☐ Paramus, NJ (201) 262-3440 ☐ Southfield, MI (313) 353-5880

13 To Be Completed by ThermalKEM

Toxicity Rating:

Ingestion ___ Inhalation ___ Skin Absorption ___

Hazard Rating:

Health ___ Flammability ___ Reactivity ___

Special ___

AUTHORIZATION REQUEST FORM

A860158-227

14 Drum 2

1 ___ Amendment X New 8888

South Carolina Department of Health and Environmental Control
Bureau of Solid and Hazardous Waste (803) 734-5200

___ Landfill ___ Reclaim
___ Recycle X Incinerate
___ Landfarm ___ Energy Recovery
___ Other ___

3 **Authorization Number:** ST - 88886 - 1054 ← To be entered by TSD Facility S+D Eng

4 **Generator Information:**

Generator ID # NJD001394040 Name ~~Synkote Paint Company/USEPA Region II~~ USEPA Reg. III/SynKote Paint Co.

Address 144-160 Van Riper Avenue City Elmwood PARK State NJ Zip Code 07407
USEPA Reg. II/Woodbridge Ave., Edison, NJ 08837

Official Contact D. Harrington Title O.S.C. Telephone (201) 906-6899

SC County (For In-State Generator Only)

5 **Treatment, Storage, or Disposal Facility Information:**

Facility EPA ID # SCDO 44442333 Name *ThermalKEM Inc.*

6 ___ Line # (This line # will **always** represent this specific waste stream.)

WASTE ORGANIC FLAMMABLE LIQUID

7 **Description of Hazardous Waste**

D001 6666 ___ ___ ___ Ø8

8 **EPA/DHEC Waste Codes** 9 **DOT Hazard Class**

10 **Process Producing Waste:**
U.S.E.P.A. Region II Superfund Clean-Up

11 **Enter Quarter for One-Time Disposal:** ___ / ___ Qtr/yr.

If Multiple Shipments Enter Frequency Here: 2 times/yr.

12 **Handling Method:** T Ø9

13 **Volume:** (lbs/yr. only) ~8,000 lbs.

14 **Physical State of Waste @ 70°F**
1. ___ solid 2. X liquid 3. ___ N/A

15 **Flash Point (cc)**
1. ___ N/A 2. X <60°F 3. ___ 60–140°F 4. ___ >140°F

For DHEC use only:

Date Received: ___ ___ ___

Note:

AUTHORIZATION REQUEST FORM (con't)

Facility Use Only:

16 Packaging for Shipment: [X] in Drums (size) [5-85] [ ] in Bulk [ ] Other

17 Method of Transportation: [ ] Railroad tanker [X] Truck [ ] Other [ ] **18 Specific Gravity:** [0.82]

19 Viscosity @ 70°F: [X] Low [ ] Medium [ ] High **20 Layering:** [X] None [ ] Bilayered [ ] Multilayered

21 Suspended Solids: % by weight or volume. Specify exact % [—] **22 Dissolved Solids:** by % weight. Specify exact % [15]

23 Thousands of Btu's/lbs. Specify: [12-HK] **24 Organically Bound Sulfur** (wt %): [<1] **25 Organically Bound Chloride:** [<1]

26 Organically Bound Nitrogen (wt %): [<1] **27 Toxicity:** [ ] High [ ] Medium [X] Low [ ] Unknown **28 Ash %:** [<1]

29 Affinity for Water: [X] Hydrophilic [ ] Lipophilic **30 pH** (if hydrophilic): [6.9]

31 Visual Description of Waste: Dark Brown Liquid w/ Brown solids

32 Constituents: List specific constituents by name and corresponding percentage in waste stream.

Volatile Organics	%
Toluene	5-6
m-Xylene	5-6
o,p-Xylene	3-4
Ethylbenzene	1-2
MIBK	1-2

Non Volatile Organics	%
Oil + Grease	15-17
Pyrene (1,000ppm)	0-1
Bis (2-ethylhexyl) Phthalate	0-1
Non-N.B.S. Determinable	
Inert Organic Liquids	60-62

Acid or Alkalis	%

Salts & Inorganics	%
Ash (Inert Solids)	0-1

Water: 0-1 %

AUTHORIZATION REQUEST FORM (con't)

33 Metallic: (total metals not EP Toxicity Test)

As	/ ppm	Cr_{+3}	/ ppm	Ag	/ ppm	Fe	1,100 ppm
Ba	/ ppm	Cr^{+6}	8.9 ppm	Ni	/ ppm	Sb	/ ppm
Cd	/ ppm	Hg	37 ppm	Cu	12 ppm	Mn	12 ppm
Pb	81 ppm	Se	/ ppm	Ti	30 ppm	Co	15 ppm
Zn	36 ppm	Be	/ ppm	Na	510 ppm	Tl	/ ppm

Toxics

Cyanide	<50 ppm
Pesticides	/ ppm
Carcinogens	/ ppm
Other Toxics	/ ppm

Other Information: _____

34 Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: [signature] **Date Submitted:** 2/9/90

Print Name: Dwayne Harrington **Title:** OSC

35 TSD Facility Certification:

I certify that based on the information presented in this document this facility is permitted to accept the waste stream described hereon, and do hereby inform the generator listed hereon of acceptance of the waste for treatment, storage, and/or disposal in the manner designated, and in compliance with the TSD Facility's standard terms and conditions.

Signature: Jonna A. Romeo **Date Submitted:** 2/19/90

Print Name: JONNA ROMEO **Title:** WASTE APPROVAL SUPERVISOR

WASTE CHARACTERIZATION FORM

Anal. # => A60158-228

Authorization Number: ST - 88886 - 1055 18 Drums

S+D # => Comp. B

NOTE: All items should be accurately completed to assure you obtain the most rapid waste approval.

PEEL OFF LABEL
PLACE ON SAMPLE CONTAINER

SAMPLE RECEIVED
FEB 15 1990

1 Generator Information:

Generator US EPA ID # NJD001394040 Generator Name: ~~Synkote Paint Company/USEPA Region II~~ USEPA Reg. II/SynKote Paint Co

Address 144-160 Van Riper Avenue City Elmwood PARK State NJ Zip Code 07407

USEPA Reg. II/Woodbridge Ave., Edison, NJ 08837

Official Contact D. Harrington Title O.S.C. Telephone (201) 906-6899

SC County (For In-State Generator Only)

2 Broker Information:

Name: S & D Engineering Official Contact: George Press Telephone: (201) ~~549-8778~~

Address: ~~173 Essex Avenue~~ 2 GOURMET LANE City: ~~Metuchen~~ Edison State: NJ Zip: ~~08818~~ 08837

3 General Waste Information:

DOT Shipping Name: Waste Flammable Liquid, N.O.S. DOT Hazard Class: Flammable UN/NA # 1993

4 Physical State:

☐ Powder ☐ Paste ☐ Solid ☒ Liquid ☐ Slurry ☐ Resins ☐ Aerosols ☐ Lab Pack ☐ Gas (Cylinder) ☐ Other:

5 Inorganics Present:

Total Fluorine <1 % Total Bromine <1 % Cyanide <1 %

Nitric Acid <1 % Chromic Acid <1 % Sulfur <1 %

Sodium Hydroxide <1 % Potassium Hydroxide <1 %

6 Organics Present:

PCB <2 ppm

Dioxins — ppm

Furans — ppm

7 Reactivity:

Is waste reactive under 40 CFR 261.23? ☐ Yes ☒ No

8 Carcinogens: Circle if present: arsenic, asbestos, benzene, benzidene, beryllium, bis (chloromethyl) ether, diethylstilbesterol, 2-naphthylamine, nickel, vinyl chloride, chromium (VI), acrylonitril, cylcophosphamide, 1, 2,-diphenyl hydrazine, ethylene oxide, melphalan.

9 Biological, Pathological or Etiological Materials: List any present: None

10 Authorization To Correct ARF:

I authorize ThermalKEM to make corrections to the attached Authorization Request Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of South Carolina DHEC. I understand that a corrected copy will be sent to me.

Signature: [signature] Title: OSC Date: 2/9/90

11 Certification For Non-Hazardous Waste:

I certify that to the best of my knowledge the information provided hereon is correct, and the waste is non-hazardous by RCRA definition. Non-hazardous wastes do not require shipment approval by South Carolina Department of Solid and Hazardous Waste.

Signature: Title: Date:

12 American NuKEM Representative: D. Jones Code: 111E

☒ Rock Hill, SC (803) 329-9690 ☐ Paramus, NJ (201) 262-3440 ☐ Southfield, MI (313) 353-5880

13 To Be Completed by ThermalKEM

Toxicity Rating:

Ingestion ___ Inhalation ___ Skin Absorption ___

Hazard Rating:

Health ___ Flammability ___ Reactivity ___

Special ___

AUTHORIZATION REQUEST FORM

Auth # => A60158-228

1 ___ Amendment X New 8888 18 Drums

South Carolina Department of Health and Environmental Control
Bureau of Solid and Hazardous Waste (803) 734-5200

2 ___ Landfill ___ Reclaim
S+D Recycle ___ Incinerate
___ Landfarm ___ Energy Recovery
___ Other ___

3 Authorization Number: ST - 88886 - 1055 ← **To be entered by TSD Facility** S+D Eng.

4 Generator Information:

Generator ID # NJD001394040 Name USEPA Reg. II/SynKote Paint Co. ~~Synkote Paint Company/USEPA Region II~~

Address 144-160 Van Riper Avenue City Elmwood PARK State NJ Zip Code 07407
USEPA Reg. II/Woodbridge Ave., Edison, NJ 08837

Official Contact D. Harrington Title O.S.C. Telephone (201) 906-6899 ___ SC County (For In-State Generator Only)

5 Treatment, Storage, or Disposal Facility Information:

Facility EPA ID # SCDO 44442333 Name *ThermalKEM Inc.*

6 ___ **Line #** (This line # will **always** represent this specific waste stream.)

WASTE PAINT Sludge

7 Description of Hazardous Waste

D001 6666 ___ ___ ___ 08

8 EPA/DHEC Waste Codes **9 DOT Hazard Class**

10 Process Producing Waste:
U.S.E.P.A. Region II Superfund Clean-Up

11 Enter Quarter for One-Time Disposal: ___ / ___ Qtr/yr.

If Multiple Shipments Enter Frequency Here: 2 times/yr.

12 Handling Method: T09

13 Volume: (lbs/yr. only) ~10,000 lbs.

14 Physical State of Waste @ 70°F
1. ___ solid 2. X liquid 3. ___ N/A

15 Flash Point (cc)
1. ___ N/A 2. ___ <60°F 3. X 60–140°F 4. ___ >140°F

For DHEC use only:

Date Received: ___ ___ ___

Note: ___

DHEC 1969 REV. (8/86)

AUTHORIZATION REQUEST FORM (con't)

Facility Use Only:

16 Packaging for Shipment: [X] in Drums (size) 5-85 [ ] in Bulk [ ] Other

17 Method of Transportation: [ ] Railroad tanker [X] Truck [ ] Other [ ] **18 Specific Gravity:** 1.02

19 Viscosity @ 70°F: [ ] Low [ ] Medium [X] High **20 Layering:** [ ] None [ ] Bilayered [ ] Multilayered

21 Suspended Solids: % by weight or volume. Specify exact % [ ] **22 Dissolved Solids:** by % weight. Specify exact % 38

23 Thousands of Btu's/lbs. Specify: 13-15K **24 Organically Bound Sulfur** (wt %): <1 **25 Organically Bound Chloride:** <1

26 Organically Bound Nitrogen (wt %): <1 **27 Toxicity:** [ ] High [ ] Medium [X] Low [ ] Unknown **28 Ash %:** 6-8

29 Affinity for Water: [X] Hydrophilic [ ] Lipophilic **30 pH** (if hydrophilic): 5.6

31 Visual Description of Waste: Blue Sludge (Paint Related Materials)

32 Constituents: List specific constituents by name and corresponding percentage in waste stream.

Volatile Organics	%
MIBK (18ppm)	0-1
Toluene (46ppm)	0-1
Ethylbenzene (23ppm)	0-1
m-Xylene (84ppm)	0-1
o,p-Xylene (67ppm)	0-1

Non Volatile Organics	%
Dimethylbenzene Isomers	8-10
Trimethylbenzene Isome	1-2
Ethylmethylbenzene	0-1
Non-N.B.S. Determinable	
Inert Organic Solids	60-62
(Paint Sludges)	

Acid or Alkalis	%

Salts & Inorganics	%
Ash (Inert Solids)	6-8

Water: 12-14 %

AUTHORIZATION REQUEST FORM (con't)

33 Metallic: (total metals not EP Toxicity Test)

As	7.0 ppm	Cr_{+3}	— ppm	Ag	— ppm	Fe	530 ppm
Ba	2,600 ppm	Cr^{+6}	41 ppm	Ni	— ppm	Sb	5.3 ppm
Cd	1,500 ppm	Hg	— ppm	Cu	1,000 ppm	Mn	14 ppm
Pb	560 ppm	Se	— ppm	Ti	24 ppm	Co	20 ppm
Zn	180 ppm	Be	— ppm	Na	670 ppm	Tl	13 ppm

Toxics

Cyanide	<50 ppm
Pesticides	— ppm
Carcinogens	— ppm
Other Toxics	— ppm

Other Information: _____

34 Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: Dwayne Harrington Date Submitted: 2/9/90

Print Name: Dwayne Harrington Title: ASC

35 TSD Facility Certification:

I certify that based on the information presented in this document this facility is permitted to accept the waste stream described hereon, and do hereby inform the generator listed hereon of acceptance of the waste for treatment, storage, and/or disposal in the manner designated, and in compliance with the TSD Facility's standard terms and conditions.

Signature: Jonna A. Romeo Date Submitted: 2/19/90

Print Name: JONNA ROMEO Title: WASTE APPROVAL SUPERVISOR

WASTE CHARACTERIZATION FORM

Anal. # => A60158-230

Authorization Number: ST - 88886 - 1057

23 Drums

S+O # => Comp. D

NOTE: All items should be accurately completed to assure you obtain the most rapid waste approval.

PEEL OFF LABEL
PLACE ON SAMPLE CONTAINER

SAMPLE RECEIVED
FEB 15 1990

1 Generator Information:

Generator US EPA ID # NJD001394040 Generator Name: ~~Synkote Paint Company/USEPA Region II~~ USEPA Reg. II/ Syn Kote Paint Co.

Address: 144-160 Van Riper Avenue USEPA Reg. II/Woodbridge Ave., Edison, NJ 08837 City: Elmwood PARK State: NJ Zip Code: 07407

Official Contact: D. Harrington Title: O.S.C. Telephone: (201) 906-6899

SC County (For In-State Generator Only)

2 Broker Information:

Name: S & D Engineering Official Contact: George Press Telephone: (201) 549-8778

Address: ~~113 Brook Avenue~~ 2 Gourmet Lane City: ~~Metuchen~~ Edison State: NJ Zip: ~~08840~~ 08837

3 General Waste Information:

DOT Shipping Name: Waste Flammable Liquid DOT Hazard Class: Flammable UN/NA # 1993

4 Physical State:

☐ Powder ☐ Paste ☐ Solid ☒ Liquid ☐ Slurry ☐ Resins ☐ Aerosols ☐ Lab Pack ☐ Gas (Cylinder) ☐ Other:

5 Inorganics Present:

Total Fluorine <1 % Total Bromine <1 % Cyanide <1 %

Nitric Acid <1 % Chromic Acid <1 % Sulfur <1 %

Sodium Hydroxide <1 % Potassium Hydroxide <1 %

6 Organics Present:

PCB <2 ppm

Dioxins — ppm

Furans — ppm

7 Reactivity:

Is waste reactive under 40 CFR 261.23? ☐ Yes ☒ No

8 Carcinogens: Circle if present: arsenic, asbestos, benzene, benzidene, beryllium, bis (chloromethyl) ether, diethylstilbesterol, 2-naphthylamine, nickel, vinyl chloride, chromium (VI), acrylonitril, cylcophosphamide, 1, 2,-diphenyl hydrazine, ethylene oxide, melphalan.

9 Biological, Pathological or Etiological Materials: List any present: None

10 Authorization To Correct ARF:

I authorize ThermalKEM to make corrections to the attached Authorization Request Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of South Carolina DHEC. I understand that a corrected copy will be sent to me.

Signature: [signature] Title: OSC Date: 2/9/90

11 Certification For Non-Hazardous Waste:

I certify that to the best of my knowledge the information provided hereon is correct, and the waste is non-hazardous by RCRA definition. Non-hazardous wastes do not require shipment approval by South Carolina Department of Solid and Hazardous Waste.

Signature: Title: Date:

12 American NuKEM Representative: D. Jones Code: 111E

☒ Rock Hill, SC (803) 329-9690 ☐ Paramus, NJ (201) 262-3440 ☐ Southfield, MI (313) 353-5880

13 To Be Completed by ThermalKEM

Toxicity Rating:

Ingestion ____ Inhalation ____ Skin Absorption ____

Hazard Rating:

Health ____ Flammability ____ Reactivity ____

Special ____

AUTHORIZATION REQUEST FORM

Anal. # => 160158-230

1 ___ Amendment X New

8888 23 Drums

South Carolina Department of Health and Environmental Control
Bureau of Solid and Hazardous Waste (803) 734-5200

2 ___ Landfill ___ Reclaim
___ Recycle ___ Incinerate
___ Landfarm ___ Energy Recovery
___ Other ___

3 Authorization Number: ST - 88886 - 1057 ← **To be entered by TSD Facility** S+D Eng.

4 Generator Information:

Generator ID # NJD001394040 Name ~~Synkote Paint Company/USEPA Region II~~ USEPA Reg. II/Synkote Paint Co.

Address 144-160 Van Riper Avenue City Elmwood PARK State NJ Zip Code 07407

USEPA Reg. II/Woodbridge Ave., Edison, NJ 08837

Official Contact D. Harrington Title O.S.C. Telephone (201) 906-6899

SC County (For In-State Generator Only)

5 Treatment, Storage, or Disposal Facility Information:

Facility EPA ID # SCDO 44442333 Name *ThermalKEM Inc.*

6 ___ **Line #** (This line # will **always** represent this specific waste stream.)

WASTE PAINT sludges

7 Description of Hazardous Waste

D001 6666 ___ ___ ___ 08

8 EPA/DHEC Waste Codes **9 DOT Hazard Class**

10 Process Producing Waste:
U.S.E.P.A. Region II Super Fund Clean-Up

11 Enter Quarter for One-Time Disposal: ___ / ___ Qtr/yr.

If Multiple Shipments Enter Frequency Here: 2 times/yr.

12 Handling Method: T09

13 Volume: (lbs/yr. only) 11,500

14 Physical State of Waste @ 70°F
1. ___ solid 2. ✓ liquid 3. ___ N/A

15 Flash Point (cc)
1. ___ N/A 2. ___ <60°F 3. X 60–140°F 4. ___ >140°F

For DHEC use only:

Date Received: ___ ___ ___

Note: ___

DHEC 1969 REV. (8/86)

AUTHORIZATION REQUEST FORM (con't)

Facility Use Only:

16 Packaging for Shipment: [X] in Drums (size) [5-85] [ ] in Bulk [ ] Other

17 Method of Transportation: [ ] Railroad tanker [X] Truck [ ] Other [ ] **18 Specific Gravity:** [1.2]

19 Viscosity @ 70°F: [ ] Low [ ] Medium [X] High **20 Layering:** [ ] None [ ] Bilayered [X] Multilayered

21 Suspended Solids: % by weight or volume. Specify exact % [ ] **22 Dissolved Solids:** by % weight. Specify exact % [44]

23 Thousands of Btu's/lbs. Specify: [14-16] **24 Organically Bound Sulfur** (wt %): [<1] **25 Organically Bound Chloride:** [<1]

26 Organically Bound Nitrogen (wt %): [<1] **27 Toxicity:** [ ] High [ ] Medium [X] Low [ ] Unknown **28 Ash %:** [0-1]

29 Affinity for Water: [X] Hydrophilic [ ] Lipophilic **30 pH** (if hydrophilic): [4.9]

31 Visual Description of Waste: Black Paint Sludge

32 Constituents: List specific constituents by name and corresponding percentage in waste stream.

Volatile Organics	%
MIBK	1-2
Toluene	5-7
Ethylbenzene	3-5
m,-Xylene	8-10
o,p-Xylene	5-7
Alkylated Benzenes	1-2
Branched Alkanes	0-1

Non Volatile Organics	%
Oil + Grease	14-16
Bis(2-ethylhexyl)Phthalate	0-1
Dimethylbenzene Isomers	4-6
Ethylmethyl Benzene	
— Isomers	0-1
Non-N.B.S. Determinable	
Inert Organic solids	34-36
(Paint Sludges)	

Acid or Alkalis	%

Salts & Inorganics	%
Iron	0-1

Water: 5-10 %

AUTHORIZATION REQUEST FORM (con't)

33 Metallic: (total metals not EP Toxicity Test)

As	/ ppm	Cr_{+3}	/ ppm	Ag	/ ppm	Fe	21,000 ppm
Ba	39 ppm	Cr^{+6}	50 ppm	Ni	16 ppm	Sb	/ ppm
Cd	7.4 ppm	Hg	/ ppm	Cu	330 ppm	Mn	37 ppm
Pb	240 ppm	Se	13 ppm	Ti	150 ppm	Co	38 ppm
Zn	110 ppm	Be	/ ppm	Na	220 ppm	Tl	/ ppm

Toxics

Cyanide	<50 ppm
Pesticides	/ ppm
Carcinogens	/ ppm
Other Toxics	/ ppm

Other Information: _____

34 Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: [signature] Date Submitted: 2/9/90

Print Name: Dwayne Harrington Title: OSC

35 TSD Facility Certification:

I certify that based on the information presented in this document this facility is permitted to accept the waste stream described hereon, and do hereby inform the generator listed hereon of acceptance of the waste for treatment, storage, and/or disposal in the manner designated, and in compliance with the TSD Facility's standard terms and conditions.

Signature: Jonna A. Romeo Date Submitted: 2/19/90

Print Name: JONNA ROMEO Title: WASTE APPROVAL SUPERVISOR

WASTE CHARACTERIZATION FORM

Anal. # => A60158-231

S+D # => Comp. E

Authorization Number: ST - 88886 - 1058 61 Drums

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PLACE ON SAMPLE CONTAINER
FEB 15 1990

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USEPA Reg. II/Woodbridge Ave., Edison, NJ 08837

Official Contact D. Harrington Title O.S.C. Telephone (201) 906-6899 SC County (For In-State Generator Only)

2 Broker Information:

Name: S & D Engineering Official Contact: George Press Telephone: (201) 549-8778

Address: ~~179 Ryan Avenue~~ 2 Gourmet Lane City: ~~Metuchen~~ Edison State: NJ Zip: ~~07837~~ 08837

3 General Waste Information:

DOT Shipping Name: Hazardous Waste Liquid, N.O.S. DOT Hazard Class: ORM-E UN/NA # 9189

4 Physical State:

☐ Powder ☐ Paste ☐ Solid ☒ Liquid ☐ Slurry ☐ Resins ☐ Aerosols ☐ Lab Pack ☐ Gas (Cylinder) ☐ Other:

5 Inorganics Present:

Total Fluorine <1 % Total Bromine <1 % Cyanide <1 %

Nitric Acid <1 % Chromic Acid <1 % Sulfur <1 %

Sodium Hydroxide <1 % Potassium Hydroxide <1 %

6 Organics Present:

PCB <2 ppm

Dioxins — ppm

Furans — ppm

7 Reactivity:

Is waste reactive under 40 CFR 261.23? ☐ Yes ☒ No

8 Carcinogens: Circle if present: arsenic, asbestos, benzene, benzidene, beryllium, bis (chloromethyl) ether, diethylstilbesterol, 2-naphthylamine, nickel, vinyl chloride, chromium (VI), acrylonitril, cylcophosphamide, 1, 2,-diphenyl hydrazine, ethylene oxide, melphalan.

9 Biological, Pathological or Etiological Materials: List any present: None

10 Authorization To Correct ARF:

I authorize ThermalKEM to make corrections to the attached Authorization Request Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of South Carolina DHEC. I understand that a corrected copy will be sent to me.

Signature: [signature] Title: OSC Date: 2/9/90

11 Certification For Non-Hazardous Waste:

I certify that to the best of my knowledge the information provided hereon is correct, and the waste is non-hazardous by RCRA definition. Non-hazardous wastes do not require shipment approval by South Carolina Department of Solid and Hazardous Waste.

Signature: Title: Date:

12 American NuKEM Representative: D. Jones Code: 111E

☒ Rock Hill, SC (803) 329-9690 ☐ Paramus, NJ (201) 262-3440 ☐ Southfield, MI (313) 353-5880

13 To Be Completed by ThermalKEM

Toxicity Rating:

Ingestion ___ Inhalation ___ Skin Absorption ___

Hazard Rating:

Health ___ Flammability ___ Reactivity ___

Special ___

AUTHORIZATION REQUEST FORM

Anal. # => A60158-231

1 ___ Amendment X New 8888 61 Drums

South Carolina Department of Health and Environmental Control
Bureau of Solid and Hazardous Waste (803) 734-5200

2 ___ Landfill ___ Reclaim
~~St Recycle~~ ~~X~~ Incinerate
___ Landfarm ___ Energy Recovery
___ Other ___

3 **Authorization Number:** ST - ~~88886~~ - 1058 ← To be entered by TSD Facility

St D Eng

4 **Generator Information:**

Generator ID # NJD001394040 Name ~~Synkote Paint Company/USEPA Region II~~ USEPA Reg. II/Syn Kote Paint Co.

Address 144-160 Van Riper Avenue City Elmwood Park State NJ Zip Code 07407

USEPA Reg. II/Woodbridge Ave., Edison, NJ 08837

Official Contact D. Harrington Title O.S.C. Telephone (201) 906-6899

SC County (For In-State Generator Only)

5 **Treatment, Storage, or Disposal Facility Information:**

Facility EPA ID # SCDO 44442333 Name *ThermalKEM Inc.*

6 ___ **Line #** (This line # will **always** represent this specific waste stream.)

WASTE PAINT RELATED MATERIALS

7 **Description of Hazardous Waste**

6.6.66 ___ ___ ___ ___ 17

8 **EPA/DHEC Waste Codes** 9 **DOT Hazard Class**

10 **Process Producing Waste:**
U.S. E.P.A. Region II Superfund Clean-Up

11 **Enter Quarter for One-Time Disposal:** ___ / ___ Qtr/yr.

If Multiple Shipments Enter Frequency Here: 2 times/yr.

12 **Handling Method:** T09

13 **Volume:** (lbs/yr. only) ~34,000

14 **Physical State of Waste @ 70°F**
1. ___ solid 2. X liquid 3. ___ N/A

15 **Flash Point (cc)**
1. ___ N/A 2. ___ <60°F 3. ___ 60–140°F 4. X >140°F

For DHEC use only:

Date Received: ___ ___ ___

Note: ___

DHEC 1969 REV. (8/86)

AUTHORIZATION REQUEST FORM (con't)

Facility Use Only:

16 Packaging for Shipment: [X] in Drums (size) [5 - 110] [ ] in Bulk [ ] Other

17 Method of Transportation: [ ] Railroad tanker [X] Truck [ ] Other [ ] **18 Specific Gravity:** [0.96]

19 Viscosity @ 70°F: [ ] Low [X] Medium [ ] High **20 Layering:** [X] None [ ] Bilayered [ ] Multilayered

21 Suspended Solids: % by weight or volume. Specify exact % [—] **22 Dissolved Solids:** by % weight. Specify exact % [1.4]

23 Thousands of Btu's/lbs. Specify: [1-2K] **24 Organically Bound Sulfur** (wt %): [<1] **25 Organically Bound Chloride:** [<1]

26 Organically Bound Nitrogen (wt %): [Unk] **27 Toxicity:** [ ] High [ ] Medium [X] Low [ ] Unknown **28 Ash %:** [0-1]

29 Affinity for Water: [X] Hydrophilic [ ] Lipophilic **30 pH** (if hydrophilic): [7.5]

31 Visual Description of Waste: Tan Liquid

32 Constituents: List specific constituents by name and corresponding percentage in waste stream.

Volatile Organics	%
Acetone	0-1
2-Butanone (220ppm)	0-1
MIBK (220ppm)	0-1
Tetrachloroethane	0-1
Ethylbenzene	0-1
m-Xylene	0-1
o,p-Xylene	0-1

Non Volatile Organics	%
Oil + Grease	5-7
Dimethylbenzene Isomers	3-5
Ethylmethylbenzene Isomer	0-1
Non-N.B.S. Determinable	
Inert Organic Liquids	11-14

Acid or Alkalis	%

Salts & Inorganics	%

Water: 65-70 %

DHEC 1969 Rev. (8/86)

AUTHORIZATION REQUEST FORM (con't)

33 Metallic: (total metals not EP Toxicity Test)

As	— ppm	Cr_{+3}	— ppm	Ag	— ppm	Fe	510 ppm
Ba	37 ppm	Cr_{+6}	17 ppm	Ni	— ppm	Sb	— ppm
Cd	— ppm	Hg	— ppm	Cu	7.5 ppm	Mn	16 ppm
Pb	43 ppm	Se	— ppm	Ti	— ppm	Co	16 ppm
Zn	100 ppm	Be	— ppm	Na	280 ppm	Tl	— ppm

Toxics

Cyanide	<.56 ppm
Pesticides	— ppm
Carcinogens	— ppm
Other Toxics	— ppm

Other Information: _____

34 Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: [signature] **Date Submitted:** 2/9/90

Print Name: Dwayne Harrington **Title:** OSC

35 TSD Facility Certification:

I certify that based on the information presented in this document this facility is permitted to accept the waste stream described hereon, and do hereby inform the generator listed hereon of acceptance of the waste for treatment, storage, and/or disposal in the manner designated, and in compliance with the TSD Facility's standard terms and conditions.

Signature: Jonna A. Romeo **Date Submitted:** 2/19/90

Print Name: JONNA ROMEO **Title:** WASTE APPROVAL SUPERVISOR

WASTE CHARACTERIZATION FORM

Anal.# => A60158-234

Authorization Number: ST - 88886 - 1061 12 Drums

S+D# => Comp. H

NOTE: All items should be accurately completed to assure you obtain the most rapid waste approval.

PEEL OFF LABEL PLACE ON SAMPLE CONTAINER

SAMPLE RECEIVED FEB 15 1990

1 Generator Information:

Generator US EPA ID # NJD001394040 Generator Name: ~~Synkote Paint Company/USEPA Region II~~ USEPA Reg. II/Synkote Paint Co.

Address 144-160 Van Riper Avenue City Elmwood PARK State NJ Zip Code 07407

USEPA Reg. II/Woodbridge Ave., Edison, NJ 08837

Official Contact D. Harrington Title O.S.C. Telephone (201) 906-6899

SC County (For In-State Generator Only)

2 Broker Information:

Name: S & D Engineering Official Contact: George Press Telephone: (201) 549-8778

Address: ~~179 Brock Avenue~~ 2 GOURMET LANE City: ~~Metuchen~~ Edison State: NJ Zip: ~~08840~~ 08837

3 General Waste Information:

DOT Shipping Name: Hazardous Waste Solid, N.O.S. DOT Hazard Class: ORM-E UN/NA # 9189

4 Physical State:

☐ Powder ☐ Paste ☒ Solid ☐ Liquid ☐ Slurry ☐ Resins ☐ Aerosols ☐ Lab Pack ☐ Gas (Cylinder) ☐ Other:

5 Inorganics Present:

Total Fluorine <1 % Total Bromine <1 % Cyanide <1 %

Nitric Acid <1 % Chromic Acid <1 % Sulfur <1 %

Sodium Hydroxide <1 % Potassium Hydroxide <1 %

6 Organics Present:

PCB <2 ppm

Dioxins — ppm

Furans — ppm

7 Reactivity:

Is waste reactive under 40 CFR 261.23? ☐ Yes ☒ No

8 Carcinogens: Circle if present: arsenic, asbestos, benzene, benzidene, beryllium, bis (chloromethyl) ether, diethylstilbesterol, 2-naphthylamine, nickel, vinyl chloride, chromium (VI), acrylonitril, cylcophosphamide, 1, 2,-diphenyl hydrazine, ethylene oxide, melphalan.

9 Biological, Pathological or Etiological Materials: List any present: None

10 Authorization To Correct ARF:

I authorize ThermalKEM to make corrections to the attached Authorization Request Form, such corrections being consistent with the results of sample characterization and/or regulatory requirements of South Carolina DHEC. I understand that a corrected copy will be sent to me.

Signature: [signature] Title: OSC Date: 2/9/90

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I certify that to the best of my knowledge the information provided hereon is correct, and the waste is non-hazardous by RCRA definition. Non-hazardous wastes do not require shipment approval by South Carolina Department of Solid and Hazardous Waste.

Signature: Title: Date:

12 American NuKEM Representative: D. Jones Code: 111E

☒ Rock Hill, SC (803) 329-9690 ☐ Paramus, NJ (201) 262-3440 ☐ Southfield, MI (313) 353-5880

13 To Be Completed by ThermalKEM

Toxicity Rating:

Ingestion ____ Inhalation ____ Skin Absorption ____

Hazard Rating:

Health ____ Flammability ____ Reactivity ____

Special ____

AUTHORIZATION REQUEST FORM

Anal # => A60158-234

1 ___ Amendment X New 8888 12 Drums

South Carolina Department of Health and Environmental Control
Bureau of Solid and Hazardous Waste (803) 734-5200

2 ___ Landfill ___ Reclaim
S+D Recycle Cou X Incinerate
___ Landfarm ___ Energy Recovery
___ Other ___

3 **Authorization Number:** ST - 88886 - 1061 ← To be entered by TSD Facility S + D Eng.

4 **Generator Information:**

Generator ID # NJD001394040 Name ~~Synkote Paint Company/USEPA Region II~~ USEPA Reg. II/Synkote Paint Co.

Address 144-160 Van Riper Avenue City Elmwood PARK State NJ Zip Code 07407
USEPA Reg. II/Woodbridge Ave., Edison, NJ 08837

Official Contact D. Harrington Title O.S.C. Telephone (201) 906-6899 ___ SC County (For In-State Generator Only)

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6666 ___ ___ ___ ___ 17

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10 **Process Producing Waste:** U.S.E.P.A. Region II Superfund Clean-Up

11 **Enter Quarter for One-Time Disposal:** ___ / ___ Qtr/yr.

If Multiple Shipments Enter Frequency Here: 2 times/yr.

12 **Handling Method:** T09

13 **Volume:** (lbs/yr. only) ~7,000 lbs.

14 **Physical State of Waste @ 70°F**
1. X solid 2. ___ liquid 3. ___ N/A

15 **Flash Point (cc)**
1. ___ N/A 2. ___ <60°F 3. ___ 60–140°F 4. X >140°F

For DHEC use only:

Date Received: ___ ___ ___

Note: ___

DHEC 1969 REV. (8/86)

AUTHORIZATION REQUEST FORM (con't)

Facility Use Only:

16 Packaging for Shipment: [X] in Drums (size) 30 - 85 [ ] in Bulk [ ] Other

17 Method of Transportation: [ ] Railroad tanker [X] Truck [ ] Other [ ] **18 Specific Gravity:** 1.1

19 Viscosity @ 70°F: [ ] Low [ ] Medium [X] High **20 Layering:** [X] None [ ] Bilayered [ ] Multilayered

21 Suspended Solids: % by weight or volume. Specify exact % / **22 Dissolved Solids:** by % weight. Specify exact % 75

23 Thousands of Btu's/lbs. Specify: 8-10K **24 Organically Bound Sulfur** (wt %): <1 **25 Organically Bound Chloride:** <1

26 Organically Bound Nitrogen (wt %): <1 **27 Toxicity:** [ ] High [ ] Medium [X] Low [ ] Unknown **28 Ash %:** 4-6

29 Affinity for Water: [X] Hydrophilic [ ] Lipophilic **30 pH** (if hydrophilic): 7.6

31 Visual Description of Waste: Brown/Black Solid

32 Constituents: List specific constituents by name and corresponding percentage in waste stream.

Volatile Organics	%
Toluene	0-1
Ethylbenzene	0-1
m-Xylene	2-4
o,p-Xylene	2-4
Alkylated Benzene	0-1

Non Volatile Organics	%
Oil & Grease	20-22
Dimethylbenzene Isomers	3-5
Non-N.B.S. Determinable	
Inert Organic Solids	46-48

Acid or Alkalis	%

Salts & Inorganics	%
Ash (Inert Solids)	4-6

Water: 5-8 %

AUTHORIZATION REQUEST FORM (con't)

33 Metallic: (total metals not EP Toxicity Test)

As	— ppm	Cr_{+3}	— ppm	Ag	— ppm	Fe	1,500 ppm
Ba	20 ppm	Cr^{+6}	59 ppm	Ni	11 ppm	Sb	— ppm
Cd	— ppm	Hg	— ppm	Cu	18 ppm	Mn	11 ppm
Pb	260 ppm	Se	7.5 ppm	Ti	8.0 ppm	Co	— ppm
Zn	29 ppm	Be	— ppm	Na	230 ppm	Tl	— ppm

Toxics

Cyanide	<50 ppm
Pesticides	— ppm
Carcinogens	— ppm
Other Toxics	— ppm

Other Information: _____

34 Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature: [signature] Date Submitted: 2/9/90

Print Name: Dwayne Harrington Title: OSC

35 TSD Facility Certification:

I certify that based on the information presented in this document this facility is permitted to accept the waste stream described hereon, and do hereby inform the generator listed hereon of acceptance of the waste for treatment, storage, and/or disposal in the manner designated, and in compliance with the TSD Facility's standard terms and conditions.

Signature: Jonna A. Romeo Date Submitted: 2/19/90

Print Name: JONNA ROMEO Title: WASTE APPROVAL SUPERVISOR