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REQUEST #
NOX 9-5-93
LAWYER: [illegible]
DELETED: [illegible]

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U.S. V. MAP
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REQUEST
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Matter, the above

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MSD

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE
MANIFEST NO 015561

Please print or type. (Form designed for use on either 12-pitch typewriter.)

Form Approved OMB No. 2050-0036, Expires 6-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. PA 01507380260490		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Whirley Industries 618 Fourth Avenue, Warren PA 16365				A. State Manifest Document Number			
4. Generator's Phone (814) 723-7600				B. State Generator's ID Same			
5. Transporter 1 Company Name North American Environmental Ser.				C. State Transporter's ID 257281 (NY)			
6. US EPA ID Number NY 0986875854				D. Transporter's Phone 716-875-2903			
7. Transporter 2 Company Name Corp				E. State Transporter's ID SAME			
8. US EPA ID Number				F. Transporter's Phone SAME			
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380				G. State Facility's ID			
10. US EPA ID Number LA 0981057706				H. Facility's Phone (504) 631-3161			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers No. Type		13. Total Quantity	
a. Hazardous Waste Solid NOS (B001) ORH-E NA9189				0 2 2 D H		0 9 1 9 6 P	
b.						R	
c.						R	
d.						R	
J. Additional Descriptions for Materials Listed Above a) Waste Bags NAEN/WHRI/9000410				K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information Emergency Contact: Keith White (514) 723-7600							
IF UNABLE TO DELIVER, RETURN TO GENERATOR							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Keith S Shaw				Signature Keith S Shaw		Month Day Year 10/21/90	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name PAUL V. BORDAS				Signature Paul V. Bordas		Month Day Year 10/21/90	
19. Discrepancy Indication Space PATRICK WEAVER				Signature Patrick Weaver		Month Day Year 12/21/90	
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name Danie Labrante							
Signature Danie Labrante							

EPA Form 100-22 (Rev. 9/89) WHITE - DEQ GREEN - Generator, YELLOW - TSDRF, BLUE - Transporter 2, PINK - Transporter 1, GRAY - Generator

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504 465-3310

For MSP Use Only

Approval Code

NAEN/WHRI/9000410

9000410

JAN 24 1990

A. General Information

Company Name Whirley Industries
Address 618 Fourth Avenue
City Warren State PA Zip Code 16365
Generator Contact Albert L. Webster
Title Asst. VP of Manufacturing
Telephone No. (814) 723-7600
Facility EPA ID. No. PAD 015 073 802

B. Customer Information

Company Name North American Env Services Crop
Contact Peter O Keller
Address 2321 Kenmore Avenue
Buffalo, NY 14207-0066
Telephone No. (716) 875-2903
For Customer Use

C. Regulatory Information

☒ RCRA Regulated ☒ Land Ban ☐ Non-Regulated EPA Waste Code(s) RD01

D. Chemical Composition

(NO TRADE NAMES - Samples must not exceed 20% Total in maximum column must be greater than or equal to 100%)

	MIN	MAX
<u>Rags</u>	<u>90</u>	<u>95%</u>
<u>III-Trichloroethane</u>	<u>5</u>	<u>10%</u>

Common name of waste: Waste Rags

E. General Characteristics

Color: Brown
Odor: ☐ None ☒ Mild ☐ Strong
☐ Liquid ☐ Sludge ☒ Solid ☐ Powder
Phase: ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:
Radioactive? Y ☒ N ☐ Polymerizable? Y ☒ N ☐
Infectious? Y ☒ N ☐ Pyrophoric? Y ☒ N ☐
Water Reactive? Y ☒ N ☐ Explosive? Y ☒ N ☐

G. Physical/Chemical Properties

Ash (Est actual Wt %): 10%
Water (Wt %): ☒ <1 ☐ 5-10
BTU's per lb (Est actual value): 16,000
Flash Point (closed cup): ☐ <100°F ☒ >200°F
Sulfur (Wt %): ☒ <5
Specific Gravity: ☒ <0.8 ☐ 0.8-1.0 ☐ 1.0-1.2 ☐ >1.2
Viscosity (for bulk liquids only): cp
Total Suspended Solids (Wt % for bulk liquids only): ☐ 5-20 ☒ >20
pH: ☒ 2-4 ☐ 6-10
Halogens (Wt %): ☐ <1 ☐ 1-5 ☐ 5-10
Organics (ppm): ☐ 0
Endrin: ☐ 0
Lindane: ☐ 0
Methoxychlor: ☐ 0
Toxaphene: ☐ 0
2,4-D: ☐ 0
2,4,5-TP (Silvex): ☐ 0
If material contains the following compounds, indicate actual ppm:
PCB: ☐ 0
Cyanides: ☐ 0
Sulfides: ☐ 0
Dioxin: ☐ 0
Metals EP Toxicity Test (MG/L):
Arsenic (As): ☐ 0
Barium (Ba): ☐ 0
Cadmium (Cd): ☐ 0
Chromium (Cr): ☐ 0
Lead (Pb): ☐ 0
Mercury (Hg): ☐ 0
Selenium (Se): ☐ 0
Silver (Ag): ☐ 0
Copper (Cu): ☐ 0
Nickel (Ni): ☐ 0
Zinc (Zn): ☐ 0

DEQ052239

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US V. MSP
PRODUCED BY MSP 9/93
REQUEST
UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF NEW YORK

MSD054

2331

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REQUEST
UNCLASSIFIED
DATE 11/11/93
BY SP-10/MSD/MSD

MSD054

23321

H. Notes, Additional Information or Special Handling Instructions

I. Required Protective Equipment and Procedures

Please attach all materials safety data sheets, logistic sketches, analysis reports, handling precautions, additional hazardous support information, data and comments

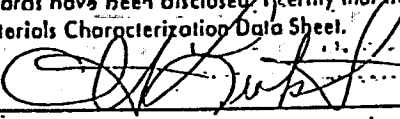
Generating process: rags used in clean-up

J. Shipping Information

DOT Hazardous Material ☒ Y ☐ N
Proper Shipping Name Hazardous Waste Solid, NOS (FOO1) DOT ID. No. UN ☒ NA 9189
Hazard Class ORM-E ID 1000#
Anticipated Volume 6 Drums Gal Yds lbs ☐ Bulk ☐ Rail
Container Size 55 gallon Container Type metal drum
Per ☐ One time ☐ Week ☐ Month ☐ Year ☒ Other quarter

Certification

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 willful omission of composition or properties exist, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all material described by this Materials Characterization Data Sheet.

1.  2. ALBERT C. WEBSTER
Generator's Signature Name (Type or Print)

3. 1/23/90 4. Act to UP of MFG
Date Title

Recertification Requirements

This Materials Characterization Data Sheet must be recertified (i.e. updated) twelve months from the date signed and thereafter recertified on an annual basis. In addition, if the characteristics of the material change or if the generating process changes, a new MCDS must be submitted for approval prior to shipment.

DEQ052240

MANIFEST N° 015573

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. Manifest Document No.		2. Page of 1		Information in the shaded area is not required by Federal law.	
3. Generator's Name and Mailing Address CCN International 200 Lehigh Street, Geneva, NY 14456				A. State Manifest Document Number 857880 (NY)			
4. Generator's Phone (315) 789-4400				B. State Generator's ID 857880			
5. Transporter 1 Company Name North American Environmental Services Corp.				C. State Transporter's ID 857880 (NY)			
6. US EPA ID Number NY 19181481716651594				D. Transporter's Phone (716) 875-2503			
7. Transporter 2 Company Name				E. State Transporter's ID			
8. US EPA ID Number				F. Transporter's Phone			
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380				G. State Facility's ID LA 0981057706			
10. US EPA ID Number LA 0981057706				H. Facility's Phone (504) 631-3161			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) a. RQ Waste Flammable Liquid, NOS (Toluene/Acetone) 1 Flammable Liquid UN 1993				12. Containers No. Type 4 200 X 200		13. Total Quantity 1822	
b.				14. Unit Wt/Vol P		L Waste No. P003	
c.				15. Special Handling Codes for Wastes Listed Above a) B DEQ052241		16. Special Handling Codes for Wastes Listed Above b)	
d.				17. Special Handling Codes for Wastes Listed Above c)			
J. Additional Descriptions for Materials Listed Above a) Filters & Rags NAEN/CCNI/8903439				K. Handling Codes for Wastes Listed Above a) B DEQ052241			
15. Special Handling Instructions and Additional Information IF UNABLE TO DELIVER, RETURN TO GENERATOR 16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name David Paoletti				Signature <i>David Paoletti</i>		Month Day Year 06/21/96	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name PAUL V. BORDAS				Signature <i>Paul V. Bordas</i>		Month Day Year 06/21/96	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space #12 and #13 - Change units made before reaching MSP facility.							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name PAUL V. BORDAS				Signature <i>Paul V. Bordas</i>		Month Day Year 06/21/96	

EPA Form 1200-22 (Rev. 9-83)

WHITE - DEO GREEN - GEDERAW YELLOW - TSCRE BLUE - TSCRE 9 DIAM - TSCRE 1 GOLD - CASH

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U.S. MAP Releaseable
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FOIA REQUEST
Letter to the FBI
March 1995

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NOTED
DATE: 6/13/90
BY: [illegible]
[illegible]

MSD054

2334

ENTERED JUN 22 1990

RECERTIFICATION OF
MATERIAL CHARACTERIZATION DATA SHEET

MSP Approval Code
NAEM/CCN1/8903499/ 1

Date printed: 5/21/90 Rep. 11: UJR

Instructions: A copy of the M.C.D.S. to be recertified is attached to this Recertification Form. We ask that you complete the remainder of this form and have it signed by an authorized technical contact.
Please return a copy of the M.C.D.S. being recertified with this form.
Return this form with any attachments to: MARINE SHALE PROCESSORS, INC.
110 James Dr. West, Suite 120
St. Rose, LA 70087
Attention: Technical Review

A. GENERAL INFORMATION

Generator Name: C C M INTERNATIONAL INC. Telephone: (315) 789-4400 x.0000
Facility Address: 200 LEHIGH STREET USEPA ID: NY9901487168
GENEVA, NY 14456-0000

Name of Waste: CONTAMINATED FILTERS & RAGS Generating Process: waste filters & towels used in staining furniture
Technical Contact: MR. DAVID PAOLETTI Title: MANAGER

B. CHANGES OR ADDITIONS SINCE LAST M.C.D.S. PREPARATION

1. Have you obtained any laboratory analysis of this waste? (If yes, attach results) ☐ yes ☒ no
2. Have you changed the raw materials used in the waste generating process? ☐ yes ☒ no
3. Have you changed the waste generating process itself? ☐ yes ☒ no
4. Are you aware of any facts or circumstances which have, or reasonably could have, altered the physical or hazardous characteristics, or chemical composition of the waste? ☐ yes ☒ no
5. Are you aware of any human health effects of exposure to the waste not previously described? ☐ yes ☒ no
6. If you answered "yes" to questions 2, 3, 4, or 5 please provide details below:

IF THERE HAVE BEEN ANY SUBSTANTIAL CHANGES, A NEW M.C.D.S. MUST BE SUBMITTED.

SHIPPING INFORMATION

Method of Shipment: ☐ Bulk Liquid ☐ Bulk Solid ☒ Drum (type/size) 55 gallons
Anticipated Volume: Gals. Cubic Yds. Other 5 drums
Per: ☐ One Time ☐ Week ☒ Month ☐ Quarter ☐ Year

RECERTIFICATION

I am an employee of the generator authorized to sign this Recertification. The information provided in the recertification of M.C.D.S. attached hereto, and the information supplied above, are complete, true and correct.

Name: David Paoletti Signature: David Paoletti
Title: Mng Date: 6-13-90

DER052242

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PRODUCED BY MSP-9/93
REQUEST
LATHAM, HENRI, JAMES MICHAEL
MATERIALS

MSD054

2335

H. Notes, Additional Information or Special Handling Instructions

Generating Process: waste filters & towels used in staining furniture

I. Required Protective Equipment and Procedures

Please attach all materials safety data sheets, logistic sketches, analysis reports, handling precautions, additional hazardous support information, data and comments.

J. Shipping Information

DOT Hazardous Material ☒ Y ☐ N

Proper Shipping Name

RQ Waste Flammable Liquid, NOS (Toluene)

DOT LD. No.

(circle one)

(UN/NA

UN 1993

Hazard Class

Flammable Liquid

RQ

1

Anticipated Volume

5

Drums

Gal

Yds

Lbs

☐ Bulk?

☐ Rail?

Container Size

55 gallon

Container Type

metal drum

Per

☐ One time

☐ Week

☒ Month

☐ Year

☐ Other

Certification

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 willful omission of composition or properties exist, and that all known or suspected hazards have been disclosed, I certify that the materials tested are representative of all material described by this Materials Characterization Data Sheet.

1.

DAVID PAOLETTI

Generator's Signature

2.

David Paolletti

Name (Type or Print)

3.

6-13-90

Date

4.

MNG

Title

Recertification Requirements

This Materials Characterization Data Sheet must be recertified (i.e. updated) twelve months from the date signed and thereafter recertified on an annual basis. In addition, if the characteristics of the material change or if the generating process changes, a new MCDS must be submitted for approval prior to shipment.

PRODUCED BY MSP 9/93

DOX 15 REQUEST

UNITED STATES MICROFILMS

1993

MSD054

7362

NAEN | CCNT | 8903439
MSI CODE: -----

P.O. BOX 1690 • KENNER, LA 70106
SALES (504) 465-3310 •

003-9517

Waste No.: North American Environmental Services Corp
Address: PO Box 66
City, State, Zip: Buffalo, NY 14207
Telephone #: (716) 875-2903
Company Contact: Peter Keller
Container Size: 55 gallon drum
Container ID: YU3
IPA Waste No.:
Generating Process: Waste Filters & towels used in staining furniture
Common Name of Waste: Contaminated filters & bags
Rate of Generation: 3 drums per month

Volume in Series _____ 114 _____

Is Waste from Hazardous ☒ YES ☐ NO
 Does this Storage Vessel Contain Flammable Liquid YES (7003)
 Hazard Class Flammable Liquid - No. ON 1993
 Transportation Equipment Tractor Trailer
 Classification Flammable

PHYSICAL DESCRIPTION

Physical State	1 Liquid	1 Semi-solid	1X Solid
Phase/Dispersion	1 Oil-Layer	1X Emulsion	1 Multi-layer
Viscosity	0X High	1 Medium	1 Low
Type of Solids	0X Organic	1 Inorganic	1 Mixed
Total Solids (wt. %)	50	Suspended Solids (wt. %)	0
H ₂ O/sh. 4000	% Ash Content	5	% Water (by weight)
Flash Point (°C)	<100	η _{sp}	tcc
Spew/leak (m/s)	1		
Boiling Point (°C)	100	Freezing Point (°C)	0
Vapor Pressure (mm Hg @ 74°F)	26		
pH (Aque)	7	(Range)	6 to 8
Total Alkalinity/Acidity (%)	<1		
Other	Hydrocarbon		
Color	Dark brown		

HAZARDOUS PROPERTIES

Water Repellent	Reactive	Explosive
Solub. Sensitive	Pyrophoric	Polymerizable
Radioactive	Hazardous Residuals	Ignitable
Corrosive	Toxic Vapor	Pathogen
Biological	Biological	
Other		

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES: _____

PLEASE ATTACH ALL MATERIAL SAYING DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORTS, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

DATE: 7/10/89 GENERATOR'S SIGNATURE: David Parletti

DEQ052244

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29CFR 1910.1200. Standard must be consulted for specific requirements.

QUICK IDENTIFIER
Common Name: (used on label and list)

Product Class: Solvent Blend

SECTION 1 -

Manufacturer's Name: SEAGRAVE COATINGS CORP.
Address: 320 Paterson Plank Rd.
City, State, and ZIP: Carlstadt, NJ 07072
Emergency Telephone No.: 201-933-1000
Other Information Calls: 201-933-1000
Date Prepared: March 31, 1987
Signature of Person Responsible for Preparation (Optional):

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY

Hazardous Component (chemical & common name(s))	OSHA PEL PPM	ACGIH TLV	Other Exposure Limits	CAS NO. (optional)
Toluene	200	100	20-30	108-88-3
Acetone	1000	750	20-36	67-64-1
Lactol Spirits	400	400	5-10	64742-89-8
Isopropyl Alcohol	400	400	5-10	67-63-0
Butyl Acetate	150	150	5-10	123-06-4
Isobutyl Isobutyrate	Not	Est.	5-10	97-85-8
Methyl Ethyl Ketone	200	200	20-30	78-93-3
Butyl Ketone	50	100	5-10	71-36-3

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point	133 - 291°F	Specific Gravity (H ₂ O = 1)	0.7933	Vapor Pressure (mm Hg)	UNK
Vapor Density (air = 1)	Heavier than air	Reactivity in Water	None	Melting Point	N/A
Solubility in Water	Slight	Appearance and Odor	Liquid/Mild		

SECTION 4 - FIRE & EXPLOSION DATA OSHA FLAMMABLE LIQUID - CLASS 1B

Flash Point	0°F X	Method Used	TCC-SETA	Flammable Limits in Air % by Volume	LEL Lower 0.96	UEL Upper 12.8
Auto-Ignition Temperature	Not Est.	Extinguisher Media	CO2 - Dry Chemical - Foam			
Special Fire Fighting Procedures	Do not use water - except with fog nozzles.					

Unusual Fire and Explosion Hazards: Do not use on hot surfaces or in areas where electric sparks may be present or where static charge may be generated. Due to extremal heat exposure, pressure may build up in closed containers, which may explode. Water may be used in cool unruptured containers.

DEQ052245

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REQUEST
LITIGATION
RECORDS
SECTION
FBI
WASHINGTON, D.C.

MSD054

23371

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE
MANIFEST NO. 906879

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. N J D 9 8 0 7 8 3 8 4 9		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Cardolite Corporation 500 Doremus Ave. Newark, N.J. 07105							
4. Generator's Phone (201) 344-5015							
5. Transporter 1 Company Name S J Transportation Co.				6. US EPA ID Number N J D 0 7 1 6 2 9 9 7 6			
7. Transporter 2 Company Name				8. US EPA ID Number			
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380				10. US EPA ID Number L A D 9 8 1 0 5 7 7 0 6			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) a. Waste Resin Solution, Flammable Liquid 911-3) UN1866 (D001, P003, P005)				12. Containers No. Type		13. Total Quantity G	
				988		44840	
b.							
c.							
d.							
15. Special Handling Instructions and Additional Information Handle with gloves, eye Protection: May cause contact dermatitis IF UNABLE TO DELIVER, RETURN TO GENERATOR							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway, according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name: JOSEPH P. Wojcik Signature: [Signature] Month Day Year: 11/21/90							
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name: Gary Bell Signature: [Signature] Month Day Year: 10/12/1990							
19. Discrepancy Indication Space DEQ052248							
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name: Gail Leonard Signature: [Signature] Month Day Year: 11/21/90							

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OS V. MSP
PRODUCED BY MSP 6/93
RECEIVED
UNITED STATES MARSHAL SERVICE
BATON ROUGE, LOUISIANA

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OS V. MSP
PRODUCED BY MSP 9/93
Releaseable

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STATE OF LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

MANIFEST No. 9006878

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD980783949C
2. Recycle/Reuse
3. Generator's Name and Mailing Address
Cardolite Corporation
500 Doremus Ave. Newark, New Jersey 07105
4. Generator's Phone (201) 344-5015
5. Transporter 1 Company Name S-C Transportation Co.
6. US EPA ID Number NJD071629976
7. Transporter 2 Company Name
8. US EPA ID Number
9. Designated Facility Name and Site Address
MARINE SHALE PROCESSORS, INC.
HIGHWAY 90 EAST
MORGAN CITY, LOUISIANA 70380
10. US EPA ID Number LA0981057706
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)
a. Waste Resin Solution, Flammable Liquid (H-3) UN1866 (D001, F003, F005)
12. Containers
b. 8
c. 08H
d. 24/20
13. Total Quantity
14. Unit
15. Special Handling Instructions and Additional Information
Handle with gloves, eye Protection: May cause contact dermatitis
IF UNABLE TO DELIVER, RETURN TO GENERATOR
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.
17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name JOSEPH P. Woznicki
Signature Joseph P. Woznicki
Month Day Year 10/26/90
18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year
19. Discrepancy Indication Space
20. Facility Owner or Operator, Certification of receipt of hazardous materials covered by this manifest except as noted in item 18.
Printed/Typed Name SHELLIE P. HIN
Signature
Month Day Year 10/26/90

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U.S. V. MSP
PRODUCED BY MSP 9/92
RECEIVED
MATERIAL PROCESSING
MATERIAL PROCESSING

MSD054

2340

RECERTIFICATION OF FEB 16 1990
MATERIAL CHARACTERIZATION DATA SHEET

MSP Approval Code

Date printed: 2/06/90

Rep. ID: CKH

CBL /CDL /8901353/ 1

Instructions: A copy of the M.C.D.S. to be recertified is attached to this Recertification Form. We ask that you complete the remainder of this form and have it signed by an authorized technical contact.
Please return a copy of the M.C.D.S. being recertified with this form.

Return this form with any attachments to: MARINE SHALE PROCESSORS, INC.
110 James Dr. West, Suite 120
St. Rose, LA 70087
Attention: Technical Review

A. GENERAL INFORMATION

Generator Name: CARPOLITE CORPORATION

Telephone: (201) 344-5015 x.0000

Facility Address: 500 DOREMUS AVE

USEPA ID: NJD980783819

NEWARK, NJ 07105-0000

Name of Waste: CASHEW NUT OIL AND SOLVENT

Generating Process: GRINDING CLEANING

Technical Contact: MR. FRED BUSCHMANN

Title: V. P. ENG

B. CHANGES OR ADDITIONS SINCE LAST M.C.D.S. PREPARATION

1. Have you obtained any laboratory analysis of this waste? (If yes, attach results)..... yes ☒ no
2. Have you changed the raw materials used in the waste generating process?..... yes ☒ no
3. Have you changed the waste generating process itself?..... yes ☒ no
4. Are you aware of any facts or circumstances which have, or reasonably could have, altered the physical or hazardous characteristics, or chemical composition of the waste?..... yes ☒ no
5. Are you aware of any human health effects of exposure to the waste not previously described?..... yes ☒ no
6. If you answered "yes" to questions. 2, 3, 4, or 5 please provide details below:

IF THERE HAVE BEEN ANY SUBSTANTIAL CHANGES, A NEW M.C.D.S. MUST BE SUBMITTED.

SHIPPING INFORMATION

Method of Shipment: ☐ Bulk Liquid ☐ Bulk Solid ☒ Drum (type/size) 55 GAL open head STEEL

Anticipated Volume: 40-50,000 Gals. _____ Cubic Yds. _____ Other _____

Per: ☐ One Time ☐ Week ☐ Month ☐ Quarter ☒ Year

RECERTIFICATION

DEQ052250

I am an employee of the generator authorized to sign this Recertification. The information provided in the recertification of M.C.D.S. attached hereto, and the information supplied above, are complete, true and correct.

Name: E. F. BUSCHMANN

Signature: E. F. Buschmann

Title: V. P. ENG.

Date: Feb 12, 1990



MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

For MSP Use Only

Approval Code _____

A. Generator Information

Generator Name CARDOLITE CORP
Site Address 500 DOREMUS AVE
City NEWARK State NJ Zip Code 07105
Generator Contact E. F. BUSCHMANN
Title V.P. ENG.
Telephone No. (201) 344-5015
Facility EPA I.D. No. NJD 980783849

B. Customer Information

Company Name CARDOLITE CORP
Contact E. F. BUSCHMANN
Address 500 DOREMUS AVE
NEWARK NJ 07105
Telephone No. (201) 344-5015
For Customer Use _____

C. Regulatory Information

☒ RCRA Regulated ☒ Land Ban ☐ Non-Regulated EPA Waste Code(s) D001, F003, F005

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%.)

	MIN	MAX
<u>CASHEW, NUTSHELL OIL POLYMERIZED</u>	<u>80</u>	<u>95</u>
<u>TOLUENE</u>	<u>2</u>	<u>10</u>
<u>XYLENE</u>	<u>2</u>	<u>10</u>

Common Name of Waste: WASTE, CASHEW RESIN SOLUTION

E. General Characteristics

Color: DRK. BROWN
Odor: ☐ None ☒ Mild ☐ Strong
☐ Liquid ☒ Sludge ☐ Solid ☐ Powder
Phases: ☐ Single Layer ☐ Double Layer ☒ Multi-Layer

F. Specific Characteristics

Is the waste:
Radioactive? Y ☒ N ☐ Polymerizable? ☐ Y ☒ N ☐
Infectious? Y ☒ N ☐ Pyrophoric? Y ☒ N ☐
Water Reactive? Y ☒ N ☐ Explosive? Y ☒ N ☐

G. Physical/Chemical Properties

Ash (Est actual Wt %)	Water (Wt %)	Specific Gravity	Viscosity	Total Suspended Solids	pH
<u>5</u>	☐ <1 ☐ 5-10	☐ <0.8 ☐ 1.2-1.4	(for bulk liquids only)	(Wt % for bulk liquids only)	☐ 2-6 ☒ 6-10
BTU's per lb	☒ 2-1.5 ☐ > 10	☒ 20.8-1.0 ☐ 1.4-1.7	Est actual in centipoise	☐ 5-20	☐ 10-12.5
(Est actual value)	Est actual	☐ 1.0-1.2 ☐ > 1.7	cp	☐ > 20	☐ < 2 or > 12.5
<u>10-15,000</u>				Est actual	Est actual

Flash Point (closed cup)	Sulfur (Wt %)	Halogens (Wt %)	<1	1-5	5-10	if > 10 Est actual Wt %
☐ < 100°F ☐ > 200°F	☒ < 5	☐ Iodine	☒ 2	☐ 2	☐ 2	
☒ 100°-140°F ☐ _____°F	if > 5 Est actual value	☐ Bromine	☒ 2	☐ 2	☐ 2	
☐ 140°-200°F actual		☐ Chlorine	☒ 2	☐ 2	☐ 2	
		☐ Fluorine	<u>0</u>	actual	Wt %	

Metals: EP Toxicity Test (MG/L)	Selenium (Se)	Organics (ppm)	Endrin	if material contains the following compounds, indicate actual ppm:
Arsenic (As)	<u>0</u>	Endrin	<u>0</u>	PCB
Barium (Ba)	<u>0</u>	Lindane	<u>0</u>	Cyanides
Cadmium (Cd)	<u>0</u>	Methoxychlor	<u>0</u>	Sulfides
Chromium (Cr)	<u>0</u>	Toxaphene	<u>0</u>	Dioxin
Lead (Pb)	<u>0</u>	2,4-D	<u>0</u>	
Mercury (Hg)	<u>0</u>	2,4,5-TP (S'tex)	<u>0</u>	

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U.S. V. MSP
PRODUCED BY MSP 9/93
REQUEST
Nathan Henkelius places
marker lines

MSD054

2341

Material Safety Data Sheet

Identity *CASHEW* Liquid Resin *WASTE*
Chemical Family Alkylated Phenolic Resin

Section I

Manufacturer's Name Cardolite Corporation
Address 500 Doremus Avenue
Newark, NJ 07105
Telephone for information (201) 344-5015
Revision Date March 22, 1988

Section II - Hazardous Ingredients/Identity Information

Hazardous Components	OSHA 231	ACGIH TLV	CAS #	
----------------------	----------	-----------	-------	--

Toluene		100ppmskin	108-88-3	5-
<i>Xylene</i>				2-

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA 313 AND 40 CFR 372

Toluene	CAS#	108-88-3	~5%
---------	------	----------	-----

Section III - Physical/Chemical Characteristics

Boiling Point	NA
Specific Gravity (H ₂ O=1)	NA
Vapor Pressure (mm Hg.)	NA
Percent Volatile	NA
pH	NA
Vapor Density (AIR=1)	NA
Evaporation Rate (Butyl Acetate=1)	NA
Solubility in Water	Nil
Appearance and Odor	Dark brown liquid; kerosene odor.

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Seta Flash CC 110°F
Flammable Limits	NA
Extinguishing Media	Foam, CO ₂ , Dry Chemical
Special Fire Fighting Procedures	None Known
Unusual Fire and Explosion Hazard	None Known

Section V - Reactivity Data

Stability	Stable
Conditions to avoid	NA
Incompatibility (Materials to avoid)	NA
Hazardous Decomposition or Byproducts	NA
Hazardous Polymerization	Will Not Occur
Conditions to avoid	NA

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U.S. V. MSP
PRODUCED BY MSP 9/93
RECEIVED
DATE
TIME
BY
OFFICE

MSD054

2342

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U.S. V. M.S.P. RELEASED BY M.S.P. 9/92

DO NOT WRITE IN THESE SPACES
 10/1/83
 10/1/83

MSD054

2343

Product Name **CARLOW Liquid Resin WASTE**

Section VI - Health Hazard Data

Route(s) Of Entry:	NA
Eye Contact	may cause eye irritation upon direct contact. Vapors may be irritating.
Skin Contact	May be irritating. Can cause reactions in individuals allergic to the poison ivy family (Rhus) of plants.
Inhalation	Vapor may be irritating to respiratory system.
Ingestion	The acute oral toxicity has not been determined.
Carcinogenicity	NA
Signs and Symptoms of Exposure	NA
Medical Conditions Aggravated by Exposure	NA
Emergency and First Aid Procedures	EYE CONTACT: IMMEDIATELY flush with plenty of water. Call a physician. SKIN CONTACT: Wash affected area with soap and water. INHALATION: Remove to fresh air. Call a physician. INGESTION: Give two glasses of water. IMMEDIATELY call a physician or Poison Control Center.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case of Spill	Observe precautions from other sections. Extinguish all ignition sources. Ventilate. Cover with absorbent material. Collect spilled material U.S. DOT approved container and seal.
Waste Disposal Method	Incinerate in a permitted hazardous waste facility. Since regulations vary consult applicable regulation or authorities before disposal. U.S. Hazardous Waste No.: D001 (Ignitable)
Precautions in Handling and Storing	Avoid heat, flame, and all sources of ignition. Avoid all contact with eyes or skin. Use in a well-ventilated area. Avoid prolonged breathing of vapor. Immediately remove all contaminated clothing and launder before reusing. When cured above 300F, released vapors may cause skin irritation.
Other Precautions	NA
H.P.C.A. Hazardous Material I.D. System	1/3/1/B

Section VIII - Control Measures

Respiratory Protection	Safety glasses or goggles.
Ventilation	Local exhaust.
Protective Gloves	Rubber gloves, protective clothing.
Eye protection	Safety glasses or goggles.
Other Protective Clothing	NA
Work/Hygiene Practices	NA

Page 2

NA=NOT AVAILABLE NE=NOT ESTABLISHED

The information on this Data Sheet represents our current data and best opinion as to the proper use and handling of this product under normal conditions. Any use of this product which is not in conformance with this Data Sheet or which involves using the product in combination with any other product or any process is the responsibility of the user.

DEQ052253

MCD's Document #
8401353

P.O. BOX 1698 • KENNER, LA 70063
SALES (504) 465-3310

CDL/CDL-1401533
MSP CODE: _____

Generator Name CARDOLITE CORP
Facility Address 500 DAREMUS AVE
City, State, Zip NEWARK NJ 07105
Technical Contact E.F. BUSCHMANN
Title VICE PRESIDENT ENGINEERING
Telephone NO. (201) 344-5015 EXT: 21
Facility EPA ID # NJD 980783849

Bill To: CARDOLITE CORP
Address: 500 DAREMUS AVE
City, State, Zip: NEWARK NJ 07105
Telephone #: 201-344-5015
Company Contact: E.F. BUSCHMANN
Container Size: 55 GAL METAL DRUM
EPA Waste No. 0001, F003, F005
Generating Process PROCESS GRINDING & CLEANING
Common Name of Waste CASHW NUT OIL AND SOLVENT
Rate of Generation 100000 PER YEAR
Volume in Storage 5000 LBS IN METAL DRUMS
Is Waste DOT Hazardous ☒ YES ☐ NO
Proper DOT Shipping Name RESIN
Hazard Class 3 ID No. UN1866
Transportation Equipment _____
Placarding _____

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

<u>CASHW NUT OIL AND</u>	<u>95</u>	%
<u>POLYMERIZED AND/OR</u>		%
<u>CURED RESINS</u>		%
<u>SAWDUST/SAW</u>	<u>5</u>	%
<u>TOLUENE</u>	<u>5</u>	%
<u>XYLENE</u>	<u>5</u>	%

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	<u>0</u>	Silver (Ag)	<u>0</u>
Barium (Ba)	<u>0</u>	Copper (Cu)	<u>0</u>
Cadmium (Cd)	<u>0</u>	Nickel (Ni)	<u>0</u>
Chromium (Cr)	<u>0</u>	Zinc (Zn)	<u>0</u>
Lead (Pb)	<u>0</u>		
Mercury (Hg)	<u>0</u>		
Selenium (Se)	<u>0</u>		

INORGANICS (mg/l or ppm)

Total CN	<u>0</u>	Iodine	<u>0</u>
Free CN	<u>0</u>	Asbestos	<u>0</u>
Sulfide	<u>0</u>		
Chloride	<u>0</u>		
Bisulfite	<u>0</u>		
Sulfite	<u>0</u>		
Sulfate	<u>0</u>		
Phosphate	<u>0</u>		
Fluorine	<u>0</u>		
Bromine	<u>0</u>		
Chlorine	<u>0</u>		

ORGANICS (mg/l or ppm)

Enlrin	<u>0</u>	Organohalide	<u>0</u>
Methoxychlor	<u>0</u>	Mercaptans	<u>0</u>
Toxaphene	<u>0</u>		
2,4-D	<u>0</u>		
2,4,5-T	<u>0</u>		
Phenolics	<u>0</u>		
PCBs	<u>0</u>		
Dioxin	<u>0</u>		
TOC	<u>0</u>		

PHYSICAL DESCRIPTION

Physical State ☐ Liquid ☒ Semi-solid ☒ Solid
Phases/Layering ☐ Uni-Layer ☐ Bilayer ☐ Multilayer
Viscosity ☐ High ☐ Medium ☐ Low
Type of Solids ☒ Organic ☐ Inorganic ☐ Mixed
Total Solids (wt. %) 90 Suspended Solids (wt. %) _____
BTU/lb 1015K % Ash Content 5 % Water (by weight) 3
Flash Point (°F) 180 Type _____
Specific Gravity 0.9
Boiling Point (°C) _____ Freezing Point (°C) _____
Vapor Pressure (mm Hg @ 24°C) _____
pH (Avg) ORGANIC (Range) NEUTRAL to
Total Alkalinity/Acidity (%) _____
Odor SOLVENT
Color BROWN TO BLACK

HAZARDOUS PROPERTIES

☐ Water Reactive	☐ Reactive	☐ Explosive
☐ Shock Sensitive	☐ Pyrophoric	☐ Polymerizable
☐ Radioactive	☐ Pesticide Residuals	☒ Ignitable
☐ Corrosive	☐ Toxic Vapor	☐ Pathogen
☐ Biological	☐ Etiological	
☐ Other	<u>CONTACT DERMATITIS</u>	

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

Gloves
COVERALLS. PREVENT SKIN
CONTACT IN SOLID LIQUID
OR VAPOR FORM BY GLASSES

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORTS, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

CERTIFICATION: 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 omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE March 3, 1989

GENERATOR'S SIGNATURE: E.F. Buschmann

MSF FORM 1010 REV. 11/83

March 8, 1989

E.F. Buschmann

DEQ052254

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U.S. V. MFP
PRODUCED BY MFP-9/93
REQUEST # _____
Lab: MSD054
Material: MSD054

MSD054

2344

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OS V. MAP
PRODUCED BY MAP 9/93
PROJECT #1
UNCLASSIFIED
DATE 11/15/93

MSD054

2345

Document # 8/83
MATERIALS CHARACTERIZATION
P.O. BOX 1698 • KENNER, LA 70063
SALES (504) 265-3110

CML/CBL-1401333
MSF CODE: _____

Generation Name CAROLITE CORP
Site Address 500 DOREMUS AVE
City, State, Zip NEWARK NJ 07105
Principal Contact E.E. BUSCHMANN
Job Title VICE PRESIDENT ENGINEERING
Telephone (H) 201-344-5015 EXT. 21
City (EPA ID) NJ0880783849

Bill To: CAROLITE CORP
Address: 500 DOREMUS AVE
City, State, Zip: NEWARK NJ 07105
Telephone #: 201-344-5015
Company Contact: E.E. BUSCHMANN
Container Size: 55 GAL METAL DRUM
EPA Waste No. 0001 F003 F005
Generating Process PROCESS GRINDING & CLEANING
Common Name of Waste CASH METAL AND SILVER
Rate of Generation 10000 PER YEAR
Volume in Storage 5500 LBS IN METAL DRUMS
Is Waste DOT Hazardous YES 1 NO 1
Proper DOT Shipping Name RESIN
Hazard Class 3 ID No. UN1866
Transportation Equipment _____
Placarding _____

CHEMICAL COMPOSITION (No Trade Name)
Materials must add up to 100%
ASBESTOS, METAL AND _____ %
POLYMERIZED AND OR _____ %
CLARA RESINS 95 %
SILICA/ST/SAND 5 %
TOLUENE 5 %
XYLENE 5 %

METALS (IP Toxicity Test, mg/l)
Arsenic (As) 0 Silver (Ag) 0
Barium (Ba) 0 Copper (Cu) 0
Bismuth (Bi) 0 Nickel (Ni) 0
Boron (B) 0 Zinc (Zn) 0
Cadmium (Cd) 0
Chromium (Cr) 0
Cobalt (Co) 0
Mercury (Hg) 0
Manganese (Mn) 0

INORGANICS (mg/l or ppm)
Total CN 0 Iodine 0
Free CN 0 Asbestos 0
Allyl 0
Aldehyde 0
Isocyanate 0
Sulfide 0
Sulfate 0
Thiocyanate 0
Urea 0
Urethane 0
Uranium 0

ORGANICS (mg/l or ppm)
Alders 0 Organohalide 0
Amines, Alkyl 0 Mercaptans 0
Benzophenone 0
2,4-D 0
2,4,6-T 0
Phenols 0
PCBs 0
Dioxin 0
TOC 0

PHYSICAL DESCRIPTION
Physical State 1 Liquid 1 Semi solid 1 Solid
Phases/Layering 1 Uni-Layer 1 Dilayer 1 Multilayer
Viscosity 1 High 1 Medium 1 Low
Type of Solids 1 Organic 1 Inorganic 1 Mixed
Total Solids (wt. %) 90 Suspended Solids (wt. %) _____
BTU/lb 105K % Ash Content 5 % Water (by weight) 3
Flash Point (°F) 100 Type _____
Specific Gravity 0.7
Boiling Point (°C) _____ Freezing Point (°C) _____
Vapor Pressure (mm Hg @ 24°C) _____
pH (Avg) ORGANIC (Range) NEUTRAL to _____
Total Alkalinity/Acidity (%) _____
Odor Solvent
Color Brown to Black

HAZARDOUS PROPERTIES
1 Water Reactive 1 Reactive 1 Explosive
1 Shock Sensitive 1 Pyrophoric 1 Polymerizable
1 Radioactive 1 Pesticide Residuals 1 Ignitable
1 Corrosive 1 Toxic Vapor 1 Pathogen
1 Biological 1 Other CONTACT DEF. NET. T.S.

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES: Gloves
COVERALLS, PREVENT SKIN
CONTACT IN SOLID, LIQUID
OR VAPOR FORM BY GLOVES

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORTS, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

CERTIFICATION: 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 omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE March 3, 1989 GENERATOR'S SIGNATURE: E.E. Buschmann DEQ052255

MSF Form 100-101 (Rev. 11/88)
Date Rec'd 8/1/89

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MSD054

2346

MATERIALS CHARACTERIZATION
P.O. BOX 1698 • KENNER, LA 70063
SALES (504) 465-3310

CDL/CDL-110155
MSP CODE:

Document # 01353
Generator Name CARDOLITE CORP
Facility Address 500 DOREMUS AVE
City, State, Zip NEWARK NJ 07105
Technical Contact E.F. BUSCHMANN
Title VIC. PRESIDENT ENGINEERING
Telephone NO. 201-344-5015 EXT. 21
Facility EPA ID # NJ0980783849

Bill To: CARDOLITE CORP
Address: 500 DOREMUS AVE
City, State, Zip: NEWARK NJ 07105
Telephone #: 201-344-5015
Company Contact: E.F. BUSCHMANN
Container Size: 55 GAL METAL DRUM
EPA Waste No.: 0001 F003 F005
Generating Process: PROCESS GRINDING & CLEANING
Common Name of Waste: CASHEW NUT OIL AND SILVER
Rate of Generation: 100,000 PER YEAR
Volume in Storage: 5,000 LBS IN METAL DRUMS
Is Waste DOT Hazardous ☒ YES ☐ NO
Proper DOT Shipping Name: RESIN
Hazard Class 3 ID No. UN1866
Transportation Equipment: _____
Placarding: _____

CHEMICAL COMPOSITION (No Trade Name)
(Totals must add up to 100%)
CASHEW NUT OIL AND %
POLYMERIZED AND OR %
CURED RESINS 95 %
SAWDUST/SAND 5 %
TOLUENE 5 %
XYLENE %

METALS (EP Toxicity Test, mg/l)
Arsenic (As) 0 Silver (Ag) 0
Barium (Ba) 0 Copper (Cu) 0
Cadmium (Cd) 0 Nickel (Ni) 0
Chromium (Cr) 0 Zinc (Zn) 0
Lead (Pb) 0
Mercury (Hg) 0
Selenium (Se) 0

INORGANICS (mg/l or ppm)
Total CN 0 Iodine 0
Free CN 0 Asbestos 0
Sulfide 0
Chloride 0
Bisulfite 0
Sulfite 0
Sulfate 0
Phosphate 0
Fluorine 0
Bromine 0
Chlorine 0

ORGANICS (mg/l or ppm)
Endrin 0 Organohalide 0
Atrazine 0 Mercaptans 0
Toxaphene 0
2,4-D 0
2,4,5-T 0
Phenolics 0
PCBs 0
Dioxin 0
TOC 0

PHYSICAL DESCRIPTION
Physical State ☐ Liquid ☒ Semi-solid ☒ Solid
Phases/Layering ☐ Uni-Layer ☐ Bilayer ☐ Multilayer
Viscosity ☐ High ☐ Medium ☐ Low
Type of Solids ☒ Organic ☐ Inorganic ☒ Mixed
Total Solids (wt. %) 90 Suspended Solids (wt. %) _____
BTU/lb 10-15K % Ash Content 5 % Water (by weight) 3
Flash Point (°F) 100 Type _____
Specific Gravity 0.9
Boiling Point (°C) _____ Freezing Point (°C) _____
Vapor Pressure (mm Hg @ 24°C) _____
pH (Avg) ORGANIC (Range) NEUTRAL to
Total Alkalinity/Acidity (%) _____
Odor SOLVENT
Color BROWN TO BLACK

HAZARDOUS PROPERTIES
☐ Water Reactive ☐ Reactive ☐ Explosive
☐ Shock Sensitive ☐ Pyrophoric ☐ Polymerizable
☐ Radioactive ☐ Pesticide Residuals ☒ Ignitable
☐ Corrosive ☐ Toxic Vapor ☐ Pathogen
☐ Biological ☐ Etiological
☐ Other CONTACT DERMATITIS

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES: Gloves
COVER ALLS. PREVENT SKIN
CONTACT IN SOLID, LIQUID
OR VAPOR FORM BY GLASS

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORTS, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

CERTIFICATION: 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 omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE March 3, 1989 GENERATOR'S SIGNATURE: E.F. Buschmann DEQ052256
MSP FORM 100-010-001-001
March 8/1989

MCDs Document #
8901353

MATERIALS CHARACTERIZATION
P.O. BOX 1698 • KENNER, LA 70063
SALES (504) 465-3310

CDL/CDL-8901353
MSP CODE: _____

Generator Name CAROLITE CORP
Facility Address 500 DAREMUS AVE
City, State, Zip NEWARK NJ 07105
Technical Contact E.F. BUSCHMANN
Title VIC PRESIDENT ENGINEERING
Telephone NO. (201) 344-5015 EXT: 21
Facility EPA ID # NJD 98078.3849

Bill To: CAROLITE CORP
Address: 500 DAREMUS AVE
City, State, Zip: NEWARK NJ 07105
Telephone #: 201-344-5015
Company Contact: E.F. BUSCHMANN
Container Size: 55 GAL METAL DRUM
EPA Waste No. 0001, F003, F005
Generating Process PROCESS GRINDING & CLEANING
Common Name of Waste CASHEN NUT OIL AND SOLVENT
Rate of Generation 100000 PER YEAR
Volume in Storage 5000 LBS IN METAL DRUMS
Is Waste DOT Hazardous ☒ YES ☐ NO
Proper DOT Shipping Name RESIN
Hazard Class 3 ID No. UN1866
Transportation Equipment _____
Placarding _____

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

CASHEN NUT OIL AND	%
POLYMERIZED AND OR	%
CHLOR RESINS	85
SAWDUST/SAND	5
TOLUENE	5
XYLENE	5

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	0	Silver (Ag)	0
Barium (Ba)	0	Copper (Cu)	0
Cadmium (Cd)	0	Nickel (Ni)	0
Chromium (Cr)	0	Zinc (Zn)	0
Lead (Pb)	0		
Mercury (Hg)	0		
Selenium (Se)	0		

INORGANICS (mg/l or ppm)

Total CN	0	Iodine	0
Free CN	0	Asbestos	0
Sulfide	0		
Chloride	0		
Bisulfite	0		
Sulfite	0		
Sulfate	0		
Phosphate	0		
Fluorine	0		
Bromine	0		
Chlorine	0		

ORGANICS (mg/l or ppm)

Endrin	0	Organohalide	0
Methoxychlor	0	Mercaptans	0
Toxaphene	0		
2,4-D	0		
2,4,5-T	0		
Phenolics	0		
PCBs	0		
Dioxin	0		
TOC	0		

PHYSICAL DESCRIPTION

Physical State ☐ Liquid ☒ Semi-solid ☒ Solid
Phases/Layering ☐ Uni-Layer ☐ Bilayer ☐ Multilayer
Viscosity ☐ High ☐ Medium ☐ Low
Type of Solids ☒ Organic ☐ Inorganic ☒ Mixed
Total Solids (wt. %) 90 Suspended Solids (wt. %) _____
BTU/lb 1015K % Ash Content 5 % Water (by weight) 3
Flash Point (°F) 180 Type _____
Specific Gravity 0.9
Boiling Point (°C) _____ Freezing Point (°C) _____
Vapor Pressure (mm Hg @ 24°C) _____
pH (Avg) ORGANIC (Range) NEUTRAL
Total Alkalinity/Acidity (%) _____
Odor SOLVENT
Color BROWN TO BLACK

HAZARDOUS PROPERTIES

☐ Water Reactive	☐ Reactive	☐ NONE
☐ Shock Sensitive	☐ Pyrophoric	☐ Explosive
☐ Radioactive	☐ Pesticide Residuals	☒ Ignitable
☐ Corrosive	☐ Toxic Vapor	☐ Pathogen
☐ Biological	☐ Etiological	
☐ Other	<u>CONTACT DERMATITIS</u>	

REQUIRED PERSONNEL PROTECTIVE
EQUIPMENT AND PROCEDURES:

Gloves
COVERALLS. PREVENT SKIN
CONTACT IN SOLID LIQUID
OR VAPOR FORM BY GLASSES

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC
SKETCHES, ANALYSIS REPORTS, HANDLING PRECAUTIONS, ADDI-
TIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

CERTIFICATION: 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 omission of composition or properties exists, and that all known or suspected hazards have been disclosed.
I certify that the materials tested are representative of all the materials subject to the contract.

DATE March 3, 1989 GENERATOR'S SIGNATURE: E.F. Buschmann
MSP FORM 100-REV 1-88
March 8, 1989

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U.S. V. MAP
PRODUCED BY MAP 9/93
REQUEST
NATIONAL HEALTH & ENVIRONMENTAL
PROTECTION AGENCY

MSD054

23471

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST NO. 015590

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. CLAD1010191415121615171115151910		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address ROMIC CHEMICAL CORPORATION 2081 BAY ROAD, EAST PALO ALTO, CA 94303				A. State Manifest Document Number 015590			
4. Generator's Phone (415) 324-1638				B. State Generator's ID			
5. Transporter 1 Company Name E.T.S.				C. State Transporter's ID 007465			
6. US EPA ID Number 101K1D191811161015131613				D. Transporter's Phone (405) 677-8781			
7. Transporter 2 Company Name				E. State Transporter's ID			
8. US EPA ID Number				F. Transporter's Phone			
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380				G. State Facility's ID			
10. US EPA ID Number LA1019181015171016				H. Facility's Phone (504) 631-3161			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers		13. Total Quantity	
				No. Type		Unit Wt/Vol	
a. Waste Flammable Solid N.O.S. UN-1325 Flammable Solid - SEA # D001/F003				0 18 15 D 14		3 18 19 10 10 P	
b.						R	
c.						R	
d.						R	
J. Additional Descriptions for Materials Listed Above MSP APPROVAL CODE #: ROM-880113 4 OVERPACK DRUMS				K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information GLOVES, GOGGLES & PROTECTIVE CLOTHING. IF UNABLE TO DELIVER, RETURN TO GENERATOR							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name JOHN BUTLER OR RAY BOROWSKE				Signature <i>John Butler</i>		Month Day Year 01 06 21 61 91 0	
17. Transporter 1 Acknowledgement of Receipt of Materials							
Printed/Typed Name BOB GRIFFITH				Signature <i>Bob Griffith</i>		Month Day Year 01 06 21 61 91 0	
18. Transporter 2 Acknowledgement of Receipt of Materials							
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space				DE0052258			
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.							
Printed/Typed Name Jeanne Labraille				Signature <i>Jeanne Labraille</i>		Month Day Year 01 06 21 61 91 0	

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US V. MAP
PRODUCED BY MAP 9/93
REQUEST #
UNIVERSITY MICROFILMS
SERIALS ACQUISITION
300 N. ZEEB RD
ANN ARBOR MI 48106

MSD054

2348 F

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U.S. V. MAP
PRODUCED BY MAP-9/93
RELEASABLE
NOV 95
PROJECT 100-45
UNCLASSIFIED
DATE 11/15/95 BY SP-6 BJS/ML

MSD054

2349

MSD CODE: 100-45-1012
880112 JAN 788

Generation Name Roche Chemical Corp
Facility Address 2001 7th Ave
1st Floor
100-45-1012
City, State, Zip 100-45-1012
Technical Contact Roche Chemical Corp
Title V.P.
Telephone HQ. 212-512-1012 (Ext)
Facility EPA ID # 001-001-001

CHEMICAL COMPOSITION (No Trade Name)
List by most add up to 100%
Prop. - Toluene - 20%
Alcohol - 10%
Acetone - 15%
Gasoline - 20%
Gasoline - 15%
Roche - 20%
Oil - 10%

METALS (EP Toxicity Test, mg/l)
Arsenic (As) 0.01 Silver (Ag) 0
Barium (Ba) 0.01 Copper (Cu) 0
Cadmium (Cd) 0.01 Lead (Pb) 0
Chromium (Cr) 0.01 Zinc (Zn) 0
Cobalt (Co) 0
Iron (Fe) 0
Manganese (Mn) 0
Mercury (Hg) 0
Nickel (Ni) 0

INORGANICS (mg/l or ppm)
Total CN 0 In line 0
Total CN 0 Acid solub 0
Sulfide 0
Nitrate 0
Nitrite 0
Chloride 0
Fluoride 0
Sulfate 0
Phosphate 0
Formate 0
Propionate 0
Butyrate 0

ORGANICS (mg/l or ppm)
Benzene 0 Organohalide 0
Methoxychlor 0 Mercaptans 0
Hexachlorocyclopentadiene 0
2,4-D 0
2,4,5-T 0
Phenolics 0
PCBs 0
Dioxin 0
TOC 0

CERTIFICATION: 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 willful omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE 1-10-88 DEQ052259

EG Bill for Roche Chemical Corp
Company Contact Roche Chemical Corp
Container Size 55 gal drum
EPA Waste No. 001
Generating Process Roche Chemical Corp
Common Name of Waste Roche Chemical Corp
Date of Generation 10-1-88 (Date)
Volume in Storage 10 (Gallons) 15 (Liters)
Hazardous Waste ID No. 001
Proper DOT Shipping Name Roche Chemical Corp
Hazard Class Roche Chemical Corp
Transportation Equipment Van
Packaging Roche Chemical Corp

E7 PHYSICAL DESCRIPTION
Physical State ☐ Liquid ☐ Semi-solid ☒ Solid
Phase Layering ☒ Uniform ☐ Bifacial ☐ Multilayer
Viscosity ☒ High ☐ Medium ☐ Low
Type of Solid ☒ Organic ☐ Inorganic ☐ Mixed
Total Solids test, % 100 Suspended Solids test, % 0
Flash Point (°F) 100 % Ash Content 15 % Water by weight 2.2
Heat Point (°F) 100 Type closed cup
Specific Gravity 1.0
Boiling Point (°F) 100 Freezing Point (°F) 0
Vapor Pressure (mm Hg @ 24°C) 0
pH (avg) 7 (Range) 7 to 7
Total Alkalinity (mg/l) 0
Color 0 Solubility 0
Odor 0

E8 HAZARDOUS PROPERTIES
☐ Water Reactive ☐ Reactive ☐ Explosive
☐ Shock Sensitive ☐ Pyrophoric ☐ Polymerizes to
☐ Radioactive ☐ Toxic to Aquatic ☒ Ignitable
☐ Corrosive ☐ Toxic to Man ☐ Pathogen
☐ Biological ☐ Ecological
☐ Other

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

Personal Protective Equipment
used regularly

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORTS, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

14CDS Document #

MATERIALS CHARACTERIZATION DATA SHEET

SALES (504) 465-3310

MSP CODE: ROM-880113

880113 JAN 788

Generator Name Romic Chemical Corp
 Facility Address 2081 Bay Rd
East Palo Alto CA
94303
 City, State, Zip
 Technical Contact Peter Schneider
 Title V.P.
 Telephone NO. (415) 324-1838 EXT:
 Facility EPA ID # CAD 009452657

CHEMICAL COMPOSITION (No Trade Name)

Totals must add up to 100%

<u>Rags - Towels - Plastic Bags</u>	<u>20</u>	%
<u>Gloves - Rubber - Disposable</u>	<u>5</u>	%
<u>Asbestos - Thin Sweep</u>	<u>15</u>	%
<u>Lab Glassware - empty</u>	<u>20</u>	%
<u>Lab Plasticware - empty</u>	<u>15</u>	%
<u>Romex - Paint</u>	<u>20</u>	%
<u>Oil - Paint Filters</u>	<u>5</u>	%

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	<u>.001</u>	Silver (Ag)	<u>0</u>
Barium (Ba)	<u>1.0</u>	Copper (Cu)	<u>.1</u>
Cadmium (Cd)	<u>.001</u>	Nickel (Ni)	<u>0</u>
Chromium (Cr)	<u>.005</u>	Zinc (Zn)	<u>0</u>
Lead (Pb)	<u>.7</u>		
Mercury (Hg)	<u>.001</u>		
Selenium (Se)	<u>.001</u>		

INORGANICS (mg/l or ppm)

Total CN	<u>0</u>	Iodine	<u>0</u>
Free CN	<u>0</u>	Asbestos	<u>0</u>
Sulfide	<u>0</u>		
Chloride	<u>0</u>		
Bisulfite	<u>0</u>		
Sulfite	<u>0</u>		
Sulfate	<u>0</u>		
Phosphate	<u>0</u>		
Fluorine	<u>0</u>		
Bromine	<u>0</u>		
Chlorine	<u>0</u>		

ORGANICS (mg/l or ppm)

Endrin	<u>0</u>	Organohalide	<u>0</u>
Methoxychlor	<u>0</u>	Mercaptans	<u>0</u>
Toxaphene	<u>0</u>		
2,4-D	<u>0</u>		
2,4,5-T	<u>0</u>		
Phenolics	<u>0</u>		
PCBs	<u>0</u>		
Dioxin	<u>0</u>		
TOC	<u>0</u>		

CERTIFICATION: 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 omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE 1-4-88

GENERATOR'S SIGNATURE: Peter Schneider

#6 Bill To: Romic Chemical Corp
 Company Contact: Peter Schneider
 Container Size: 55 gal 17H
 EPA Waste No. D-001
 Generating Process Plant Cleanup - Touch
 Common Name of Waste Plant Trash
 Rate of Generation 90 PER 3 MONTHS
 (Time Interval)
 Volume in Storage 90 IN 55 17H
 (Quantity) (Units)
 Is Waste DOT Hazardous NO YES NO
 Proper DOT Shipping Name Waste Flammable Solid N.O.S.
 Hazard Class Flammable ID No. UN 1325
 Transportation Equipment VAN
 Placarding Flammable

#7 PHYSICAL DESCRIPTION

Physical State	☐ Liquid	☐ Semi-solid	☒ Solid
Phases/Layering	☒ Uni-Layer	☐ Bilayer	☐ Multilayer
Viscosity	☒ High	☐ Medium	☐ Low
Type of Solids	☒ Organic	☐ Inorganic	☐ Mixed
Total Solids (wt. %)	<u>100</u>	Suspended Solids (wt. %)	<u>0</u>
BTU/lb	<u>7000</u>	% Ash Content	<u>15</u>
Flash Point (°F)	<u>100</u>	Type	<u>Closed Cup</u>
Specific Gravity	<u>1.1</u>		
Boiling Point, (°C)	<u>N/A</u>	Freezing Point, (°C)	<u>N/A</u>
Vapor Pressure (mm Hg @ 24°C)	<u>N/A</u>		
pH (Avg)	<u>7</u>	(Range)	<u>to</u>
Total Alkalinity/Acidity (%)	<u>0</u>		
Odor	<u>VARIOUS Solvents</u>		
Color	<u>VARIOUS</u>		

#8 HAZARDOUS PROPERTIES

☐ Water Reactive	☐ Reactive	☐ NONE
☐ Shock Sensitive	☐ Pyrophoric	☐ Explosive
☐ Radioactive	☐ Pesticide Residuals	☒ Polymizable
☐ Corrosive	☐ Toxic Vapor	☐ Ignitable
☐ Biological	☐ Etiological	☐ Pathogen
☐ Other		

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

Personal Protective Equipment used regularly.

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORTS, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

DEQ052260

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Box 15
 1000 1/2
 1000 1/2
 1000 1/2

MSD054

2350

MCDS Document #

MATERIALS CHARACTERIZATION DATA SHEET

SALES (504) 465-3310

MSP CODE: ROM-880113

880113 JAN 7 88

Generator Name Romic Chemical Corp
 Facility Address 2081 Bay Rd
First Park Nk CN
74307
 City, State, Zip
 Technical Contact Peter Schneider
 Title V.P.
 Telephone NO. (415) 344-1638 EXT.
 Facility EPA ID # CND 009452657

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

<u>Rags - Towels - Plastic Bags</u>	<u>20</u>	%
<u>Gloves - Rain gear - Respirators</u>	<u>5</u>	%
<u>Absorbent - Floor Sweep</u>	<u>15</u>	%
<u>Lab Glass jars - empty</u>	<u>20</u>	%
<u>Lab Plastic jars - empty</u>	<u>15</u>	%
<u>Resins - Paint</u>	<u>20</u>	%
<u>Oil - Paint Filters</u>	<u>5</u>	%

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	<u>.001</u>	Silver (Ag)	<u>0</u>
Barium (Ba)	<u>1.0</u>	Copper (Cu)	<u>1</u>
Cadmium (Cd)	<u>.001</u>	Nickel (Ni)	<u>0</u>
Chromium (Cr)	<u>.005</u>	Zinc (Zn)	<u>0</u>
Lead (Pb)	<u>.7</u>		
Mercury (Hg)	<u>.001</u>		
Selenium (Se)	<u>.001</u>		

INORGANICS (mg/l or ppm)

Total CN	<u>0</u>	Iodine	<u>0</u>
Free CN	<u>0</u>	Asbestos	<u>0</u>
Sulfide	<u>0</u>		
Chloride	<u>0</u>		
Bisulfite	<u>0</u>		
Sulfite	<u>0</u>		
Sulfate	<u>0</u>		
Phosphate	<u>0</u>		
Fluoride	<u>0</u>		
Bromine	<u>0</u>		
Chlorine	<u>0</u>		

ORGANICS (mg/l or ppm)

Endrin	<u>0</u>	Organohalide	<u>0</u>
Methoxychlor	<u>0</u>	Mercaptans	<u>0</u>
Toxaphene	<u>0</u>		
2,4-D	<u>0</u>		
2,4,5-T	<u>0</u>		
Phenolics	<u>0</u>		
PCBs	<u>0</u>		
Dioxin	<u>0</u>		
TOC	<u>0</u>		

CERTIFICATION: 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 omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE 1-4-88

GENERATOR'S SIGNATURE: Peter Schneider

DEQ052261

#6 Bill To: Romic Chemical Corp
 Company Contact: Peter Schneider
 Container Size: 55 gal ITH
 EPA Waste No. D-001
 Generating Process: Plant Cleaning - Touch
 Common Name of Waste: Plant Trash
 Rate of Generation: 90 gals PER 1 month
 Volume in Storage: 90 gals IN 15 days
 Is Waste DOT Hazardous: ☒ YES ☐ NO
 Proper DOT Shipping Name: Non-Flammable Solid M.O.S.
 Hazard Class: Flammable ID No. UN 1325
 Transportation Equipment: VAN
 Placarding: Flammable

#7 PHYSICAL DESCRIPTION

Physical State: ☐ Liquid ☐ Semi-solid ☒ Solid
 Phases/Layering: ☒ Uni-Layer ☐ Bilayer ☐ Multilayer
 Viscosity: ☒ High ☐ Medium ☐ Low
 Type of Solids: ☒ Organic ☐ Inorganic ☐ Mixed
 Total Solids (wt. %) 100 Suspended Solids (wt. %) 0
 BTU/lb 7000 % Ash Content 15 % Water (by weight) 22
 Flash Point (°F) 100 Type closed cup
 Specific Gravity 1.0
 Boiling Point (°C) N/A Freezing Point (°C) N/A
 Vapor Pressure (mm Hg @ 24°C) N/A
 pH (Avg) 7 (Range) 7 to 7
 Total Alkalinity/Acidity (%) 0
 Odor: Various Solvents
 Color: Various

#8 HAZARDOUS PROPERTIES

☐ Water Reactive	☐ Reactive	☐ Explosive
☐ Shock Sensitive	☐ Pyrophoric	☐ Polymorphic
☐ Radioactive	☐ Pesticide Residuals	☒ Ignitable
☐ Corrosive	☐ Toxic Vapor	☐ Pathogen
☐ Biological	☐ Etiological	
☐ Other		

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

Personal Protective Equipment used regularly.

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORTS, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

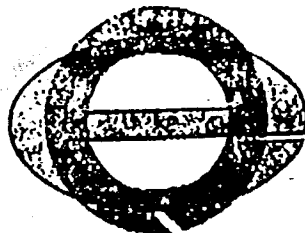
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DEQ 052261
 PRODUCED BY MSP 9/83
 REQUEST FOR INFORMATION
 1-4-88
 1-4-88

MSD054

2351

geology
and
economy
through
reclamation



ROMIC
CHEMICAL CORPORATION

Reclamation of Solvents, Chemicals for All Industries

2081 BAY ROAD

EAST PALO ALTO, CALIFORNIA 94303

TELEPHONE (415) 324-1638

FAX: (415) 324-2965

June 6, 1989

Elizabeth Harney
Marine Shale Processors
110 James Drive West
Saint Rose, Louisiana 70087

Dear Ms. Harney:

As we discussed, several of our Materials Characterization Data Sheets have been updated. Enclosed are new MCDS forms which reflect changes to the following waste streams:

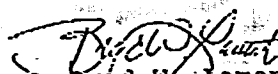
<u>MSP Code</u>	<u>Waste Stream</u>
ROM 87 4108	Resin Waste from chemical recycling
ROM 87 3647	Thinners, resins & paint from chemical recycling
ROM 87 3648	Clean-up Rags from chemical recycling
ROM 88 0113	Plant trash from plant clean up
ROM 88 7633	Obsolete paint from lab clean up

QDR 455

All of these waste streams have been changed to include the following EPA waste codes of F003, D004, D005, D006, D007, D008, D010 and D011 to be consistent with our chemical recycling process operations.

Thank you for your assistance, and please let me know if you have any questions or need any additional information.

Sincerely,


Brad W. Lamont
Operations Manager

\mrf

encl.

DEQ052262

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OS V. MSP
PRODUCED BY MSP 9/93
ROMIC
Litho: 11/94
Master, New

MSD054

23521

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST NO. 015089

Form Approved OMB No. 2050-0039 Expires 9-30-91

Please print or type. (Form designed for use on 11x17 inch typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's USEPA ID No. LA D 0 7 9 4 6 4 0 9 5		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address GSX RECOVERY SYSTEMS INC. ✓ HWY 1112 CROHLEY LA 70526				A. State Manifest Document Number 015089			
4. Generator's Phone (318) 783-2624				B. State Generator's ID			
5. Transporter 1 Company Name GSX RECOVERY SYSTEMS INC.				C. State Transporter's ID			
6. Transporter 1 USEPA ID Number LA D 0 7 9 4 6 4 0 9 5				D. Transporter's Phone 318-783-2624 ✓			
7. Transporter 2 Company Name				E. State Transporter's ID			
8. Transporter 2 USEPA ID Number				F. Transporter's Phone			
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. ✓ HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380				G. State Facility's ID			
10. Facility's USEPA ID Number LA D 9 8 1 0 5 7 7 0 6				H. Facility's Phone (504) 631-3161 ✓			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers No. Type		13. Total Quantity	
a. Waste Flammable Liquid, R.O.S. Flammable Liquid UN1993 RQ, (D001, F001, F002, F003, F005) (HEXANE, HEK)				0.88 D M		248140 G	
b.						R	
c.						R	
d.						R	
J. Additional Descriptions for Materials Listed Above HSP-HSCO-900 900 2947 ✓				K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information RUBBER GLOVES, RESPIRATORS, SAFETY GLASSES, FOAM AND/OR CO ₂ FOR FIRE CONTROL. CONTAIN SPILLAGE. IN THE EVENT OF CONTINGENCY, CALL LOUISIANA STATE POLICE HAZARDOUS MATERIALS IF UNABLE TO DELIVER, RETURN TO GENERATOR UNIT (504) 925-6595.							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, If I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name Edmond Hanks ✓				Signature [Signature] ✓		Month Day Year 12/12/90	
17. Transporter 1 Acknowledgement of Receipt of Materials				Printed/Typed Name Kenneth L. Poirier ✓		Signature [Signature] ✓	
18. Transporter 2 Acknowledgement of Receipt of Materials				Printed/Typed Name		Signature	
19. Discrepancy Indication Space				Month Day Year			
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.				Printed/Typed Name GINA BASSETT		Signature [Signature]	
						Month Day Year 12/26/90	

EPA Form 350-2 (Rev. 9-88)

WHITE - DEO. GREEN - Generator, YELLOW - TSDRF. BLUE - Transporter 2. PINK - Transporter 1. GOLD - Generator

INFORMATION USE ONLY

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DO NOT SIGN

MSD054

2353 F



MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504 465-3310

MAY 31, 1990

MSD Use Only (011 Approval 1 78902989)
Approval Code 9002947

HSCD/HSCD/9000947

A. General Information

Company Name GSX RECOVERY SYSTEMS, INC.
Address LA 1112
City CROWLEY State LA Zip Code 70526
Generator Contact MARK SAUNDERS
Title TECHNICAL SERVICES MGR.
Telephone No. (318) 783-2624
Facility EPA ID No. LAD079464095

B. Customer Information

Company Name SAME
Contact
Address
Telephone No. 1
For Customer Use

C. Regulatory Information

☒ RCRA Regulated ☐ Land Ban ☐ Non-Regulated EPA Waste Code(s) D001/D004/D005/D006/D007/D008/D010/D011/F001/F002/F003/F005

D. Chemical Composition

(NO TRADE NAMES - Samples must not exceed 20% Total in maximum column must be greater than or equal to 100%)

	MIN	MAX
PETROLEUM HYDROCARBONS	20	35
SOLVENTS (MEK, XYLENE, TOLUENE, 1,1,1 TRICHLOROETHANE, ETC.)	20	35
ASPHALT PITCH	10	20
PAINT PIGMENTS	10	25
ORGANIC RESINS	10	25
WATER	10	15

Common name of waste:

E. General Characteristics

Color BROWN
Odor ☐ None ☒ Mild ☐ Strong
☒ Liquid ☐ Sludge ☐ Solid ☐ Powder
Phase ☐ Single Layer ☒ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:
Radioactive? Y ☒ N Polymerizable? Y ☒ N
Infectious? Y ☒ N Pyrophoric? Y ☒ N
Water Reactive? Y ☒ N Explosive? Y ☒ N

G. Physical/Chemical Properties

Ash (list actual Wt %) 10
Water (Wt %) ☐ < 1 ☒ 5-10
BTU's per lb (list actual value) 11,000
Specific Gravity ☐ < 0.8 ☐ 1.2-1.4
☒ 0.8-1.0 ☐ 1.4-1.7
☐ 1.2-1.2 ☐ > 1.7
Viscosity (for bulk liquids only) cp
list actual in centipoise
Total Suspended Solids (Wt % for bulk liquids only)
☐ 5-20
☒ > 20
pH ☐ 2-6 ☒ 6-10
☐ 10-12.5
☐ < 2 or > 12.5
list actual 40 list actual 7

Flash Point (closed cup)
☒ < 100°F ☐ > 200°F
☐ 100°-140°F ☐ actual °F
☐ 140°-200°F

Sulfur (Wt %)
☒ < 5
☐ > 5 list actual value

Halogens (Wt %) < 1
☒ Iodine ☐ 1-5 ☐ 5-10 ☐ > 10 list actual Wt %
☒ Bromine ☐ actual Wt %
☐ Chlorine ☐ actual Wt %
☒ Fluorine

Metals: EP Toxicity Test (MCL/VL)
Arsenic (As) < 50
Barium (Ba) < 1000
Cadmium (Cd) < 10
Chromium (Cr) < 100
Lead (Pb) < 100
Mercury (Hg) < 0.2

Selenium (Se) < 10
Silver (Ag) < 50
Copper (Cu) < 1000
Nickel (Ni) < 1000
Zinc (Zn) < 1000

Organics (ppm)
Endrin 0
Lindane 0
Methoxychlor 0
Toxaphene 0
2,4-D 0
2,4,5-TP (Silvex) 0
If material contains the following compounds, indicate actual parts:
PCB 0
Cyanides 0
Sulfides 0
Dioxin 0

DER052264

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Material Characterization Data Sheet

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23551

H. Notes, Additional Information or Special Handling Instructions

I. Required Protective Equipment and Procedures

Please attach all materials safety data sheets, logistic sketches, analysis reports, handling precautions, additional hazardous support information, data and comments

Generating process:

J. Shipping Information

DOT Hazardous Material	☒ Y ☐ N	DOT I.D. No.	(circle one) UN1993
Proper Shipping Name	WASTE FLAMMABLE LIQUID, N.O.S.		
Hazard Class	FLAMMABLE LIQUID		
Anticipated Volume	100	Drums	Gal Yds Lbs ☐ Bulk ☐ Rail
Container Size	55	85	Container Type DM
Per	☐ One time ☒ Week ☐ Month ☐ Year ☐ Other		

Certification

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 willful omission of composition or properties exist, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all material described by this Materials Characterization Data Sheet.

1. Mark Saunders 2. Mark Saunders
Generator's Signature Name (Type or Print)

3. 5/23/90 4. TECHNICAL SERVICES MANAGER
Date Title

Recertification Requirements

This Materials Characterization Data Sheet must be recertified (i.e. updated) twelve months from the date signed and thereafter recertified on an annual basis. In addition, if the characteristics of the material change or if the generating process changes, a new MCDS must be submitted for approval prior to shipment.

DEQ052265

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST 013947

Form Approved OMB No. 1050-0099 Expires 9-30-91

Please print or type. (Form designed for use on 8 1/2 (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <u>LA 0987157251081112</u>		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <u>E.W.R., Inc. - P.O. Box 160</u> <u>2390 S. Broadway - Coal City, IL. 60416</u>		6. US EPA ID Number		7. State Generator's ID No. <u>087157251</u>		8. State Generator's Phone <u>708-331-8440</u>	
4. Generator's Phone (815) <u>634-2211</u>		5. Transporter 1 Company Name <u>Strand Trucking</u>		6. US EPA ID Number <u>LA 0987157251081112</u>		7. State Transporter's ID No. <u>0311</u>	
7. Transporter 2 Company Name		8. US EPA ID Number		9. State Transporter's ID No.		10. State Transporter's Phone	
9. Designated Facility Name and Site Address <u>MARINE SHALE PROCESSORS, INC.</u> <u>HIGHWAY 90 EAST</u> <u>MORGAN CITY, LOUISIANA 70380</u>		10. US EPA ID Number <u>LA 0987157251081112</u>		11. State Facility's ID No. <u>0311</u>		12. State Facility's Phone <u>(504) 631-3161</u>	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
a. "RQ" Waste Flammable Liquid NOS, Flammable Liquid, UN1993, (RQ 100 lbs. F001, F002, F003, F005, D001)		12. Containers No. Type <u>08M D</u>		13. Total Quantity <u>041620</u>		14. Unit Wt/Vol <u>G</u>	
b.		12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
c.		12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
d.		12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
15. Additional Descriptions for Materials Listed Above		16. Handling Codes for Wastes Listed Above		17. Special Handling Instructions and Additional Information		18. Generator's Certification	
15. Additional Descriptions for Materials Listed Above		16. Handling Codes for Wastes Listed Above		17. Special Handling Instructions and Additional Information MSP Code # <u>EWR 880801</u> EWR, Inc. ticket# <u>48646</u>		18. Generator's Certification I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.	
19. Discrepancy Indication Space		20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.		21. Facility Owner or Operator: Signature		22. Facility Owner or Operator: Month Day Year	
19. Discrepancy Indication Space		20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.		21. Facility Owner or Operator: Signature <u>Gina Bassett</u>		22. Facility Owner or Operator: Month Day Year <u>11/2/90</u>	

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MANIFEST 013947

MSD054

2356 F

RECEIVED MAR 29 1990

RECERTIFICATION OF
MATERIAL CHARACTERIZATION DATA SHEET

MSP Approval Code

Date printed: 3/05/90

Rep. ID: ER0

EUR /ERC /000001/ /

Instructions: A copy of the M.C.D.S. to be recertified is attached to this Recertification Form. We ask that you complete the remainder of this form and have it signed by an authorized technical contact.
Please return a copy of the M.C.D.S. being recertified with this form.

Return this form with any attachments to: MARINE SHALE PROCESSORS, INC.
110 James Dr. West, Suite 120
St. Rose, LA 70087
Attention: Technical Review

A. GENERAL INFORMATION

Generator Name: ENV WASTE RESOURCES COAL CITY

Telephone: (815) 634-2211 x.0000

Facility Address: 2390 S. BROADWAY

USEPA ID: IL9007167251

P.O. BOX 160

COAL CITY, IL 60416-0000

Name of Waste: DRUM BOTTOMS, FILTERS & DEBRIS

Generating Process: Fuel blending

Technical Contact: MR. ROBERT T. BLONDIN

Title: Operations Manager

B. CHANGES OR ADDITIONS SINCE LAST M.C.D.S. PREPARATION

1. Have you obtained any laboratory analysis of this waste? (If yes, attach results)..... ☐ yes ☒ no
2. Have you changed the raw materials used in the waste generating process? ☐ yes ☒ no
3. Have you changed the waste generating process itself? ☐ yes ☒ no
4. Are you aware of any facts or circumstances which have, or reasonably could have, altered the physical or hazardous characteristics, or chemical composition of the waste? ☐ yes ☒ no
5. Are you aware of any human health effects of exposure to the waste not previously described? ☐ yes ☒ no
6. If you answered "yes" to questions, 2, 3, 4, or 5 please provide details below:

DEQ052267

IF THERE HAVE BEEN ANY SUBSTANTIAL CHANGES, A NEW M.C.D.S. MUST BE SUBMITTED.

SHIPPING INFORMATION

Method of Shipment: ☐ Bulk Liquid ☐ Bulk Solid ☒ Drum (type/size) 55 17H

Anticipated Volume: 9000 Gals. _____ Cubic Yds. _____ Other _____

Per: ☐ One Time ☐ Week ☒ Month ☐ Quarter ☐ Year

RECERTIFICATION

I am an employee of the generator authorized to sign this Recertification. The information provided in the recertification of M.C.D.S. attached hereto, and the information supplied above, are complete, true and correct.

Name: ROBERT T. BLONDIN

Signature: Robert T. Blondin

Title: OPERATIONS MANAGER

Date: 3/28/90

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REQUEST 1
Lithium Hexafluoride Phosphate
Material Name

MSD054

2357

ON V. 1 KMP

Releaseable

BOX 12-4 REQUEST
Lillian Hernandez m/c 62
Mar 28, 1965

MSD054

2759

SEE ATTACHED MSD

Generating Process: Hazardous waste fuel blending

Please attach all materials safety data sheets, logistic sketches, analysis reports, handling precautions, additional hazardous support information, data and comments.

SEE ATTACHED MSD

J. Shipping Information

DOT Hazardous Material Y N
Proper Shipping Name

DOT LD. No. (circle one) UN NA UN1325

Hazard Class **Flammable solid**

Anticipated Volume Drums 160 Gal Yds Lbs ☐ Bulk? ☐ Rail?

Container Size 55 gallon Container Type 17H & 17E DOT approved

Per ☐ One time ☒ Week ☐ Month ☐ Year ☐ Other

Certification

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 willful omission of composition or properties exist, and that all known or suspected hazards have been disclosed, I certify that the materials tested are representative of all material described by this Materials Characterization Data Sheet.

1. Robert Z. Blom

² ROBERT T. BLONDIN

Generator's Signature

Name (Type or Print)

3. 3/28/90

4. OPERATIONS MANAGER

Date _____

Tide

Recertification Requirements

This Materials Characterization Data Sheet must be recertified (i.e. updated) twelve months from the date signed and thereafter recertified on an annual basis. In addition, if the characteristics of the material change or if the generating process changes, a new MCDS must be submitted for approval prior to shipment.

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HIHO FUEL

This MSDS complies with 29 CFR 1910 1200 (the hazard communication standard)

PRODUCT NAME: HIHO FUEL #4

SYNONYMS: SECONDARY FUEL, COAL REPLACEMENT FUEL (CRF), SOLVENT DERIVED FUEL

CAS NUMBER: NOT LISTED

DATA SHEET NO: EWR004

LATEST REVISION DATE: 10/30/86

PRODUCT: HIHO FUEL

INVOICE:

INVOICE DATE:

ATTN: CONTINENTAL CEMENT PLANT, MANAGER/SAFETY DIRECTOR

SECTION I PRODUCT IDENTIFICATION

GENERAL OR GENERIC ID: ORGANIC MIXTURE

HAZARD CLASSIFICATION: CFR 49 (03) FLAMMABLE LIQUID NOS UN 1993 (173.115)

SECTION II-HAZARDOUS COMPONENTS

Typical constituents of HIHO Fuel

This product is a variable blend (as is the combination of automotive fuel gasoline) of chemical compounds.

Section II below is a list of compounds that have been identified by analysis in a typical blend of product. Section X is a list by general classification of compounds likely to be found in this product.

<u>INGREDIENT</u>	<u>% (BY WT.)</u>	<u>PEL</u>	<u>TLV</u>	<u>IDLH</u>	<u>NOTE</u>
SOLVENT:	10-90				
METHYL ETHYL KETONE	4.8	200	200	3,000	UN1193
TOLUENE	13.1	100	100	2,000	UN1294
XYLENE	30.6	100	100	10,000	UN1307
ACETONE	1.3	750	750	20,000	UN1090
ISOPROPYL ALCOHOL	1.0	400	400	20,000	UN1219
ETHYL ACETATE	.8	400	400	10,000	UN1173
METHANOL	1.0	200	200	25,000	UN1230
ETHANOL	2.0	1,000	1,000	25,000	UN1170
MINERAL SPIRITS	12.8	300	350	25,000	UN1256
N-BUTYL ALCOHOL	1.6	100	50	8,000	UN1120
N-BUTYL ACETATE	9.4	200	150	10,000	UN1123
ISOPROPYL ACETATE	1.5	250	250	16,000	UN1220
N-PROPYL ACETATE	1.8	200	200	8,000	UN1275
ISOBUTYL ACETATE	1.2	187	150	7,500	UN1213
METHYL ISOBUTYL KETONE	3.6	100	50	3,000	UN1245
EM ACETATE	.5	5	5	4,500	UN1189**
EE ACETATE	.5	5	5	UN	UN1172
METHYLENE CHLORIDE	.6	100	100	10,000	UN1063
1-PROPANOL	2.2	UN	UN	UN	
BUTYL FORMATE	.7	UN	UN	2,660	DEQ052270

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TRICHLOROETHYLENE	.7	50	50	1,000	UN1710**
1,1,1 TRICHLOROETHANE	.2	200	200	1,000	UN2831**
DIMETHOXYDIMETHYLSILANE	.4	UN	UN	UN	
HEXANE	.3	100	100	5,000	UN1208
CYCLOHEXANONE	4.9	25	25	5,000	UN1915
2-PROPOXYETHANOL	.7	UN	UN	UN	
TETRACHLOROETHYLENE	1.0	50	50	0500	UN1897**
ETHYLBENZENE	10.0	100	100	2,000	UN1175**
A C ₈ -ALKYLATED BENZENE	.7	UN	UN	UN	
2-BUTOXY-ETHANOL	.8	25	25	700	UN2369
PROPYLBENZENE	.06	UN	UN	5,000	
A C ₈ -ALKYLATED BENZENE	2.0	UN	UN	UN	
DECANE	.1	UN	UN	UN	
2-ETHYL-1-HEXANE	.1	UN	UN	UN	
A C ₈ -ALKYLATED BENZENE	.9	UN	UN	UN	

METALS-compounds assumed to be oxides

IRON	.28	10 mg/m ³	UN	
CHROMIUM	.07		UN	*
NICKEL	.002	0.3 mg/m ³	UN	*
COPPER	.054	0.1 mg/m ³	UN	*
SILVER	.00008	0.01 mg/m ³	UN	*
CADMIUM	.004	0.2 mg/m ³	UN	UN2570**
MANGANESE	.002	5.0 mg/m ³	UN	*
ZINC	.052	5.0 mg/m ³	UN	
CALCIUM	.00008	5.0 mg/m ³	250	UN1910
MAGNESIUM	.025	15.0 mg/m ³	UN	
SODIUM	.100	UN		
POTASSIUM	.0500	UN		
VANADIUM	.0	0.1 mg/m ³	70	UN2862*
BARIUM	.00008	0.5 mg/m ³	250	*
ALUMINUM	.370	5.0 mg/m ³	UN	
COBALT	.01	0.1 mg/m ³	UN	*
ARSENIC	.000002	0.05 mg/m ³	UN	**
BISMUTH	.000003	UN		
ANTIMONY	.008	0.5 mg/m ³	80	**
THALLIUM	.005	0.1 mg/m ³	20	*
SELENIUM	.000003	0.2 mg/m ³	100	UN2811*
MERCURY	.000001	0.05 mg/m ³	28	*
TIN	.003	2.0 mg/m ³	400	
TITANIUM	UNKNOWN	10.0 mg/m ³	UN	
VANADIUM	.003	0.1 mg/m ³	70	
LEAD	.35	0.2 mg/m ³	UN	*

*Priority toxic pollutant **Priority toxic pollutant and Carcinogen, suspected potential or proven, UN alone means unknown data.

SECTION III PHYSICAL DATA

PROPERTY
INITIAL BOILING POINT
VAPOR PRESSURE
VAPOR DENSITY
SOLUBILITY IN WATER
APPEARANCE
SPECIFIC GRAVITY

REFINEMENT
FOR PRODUCT
FOR PRODUCT
AIR=1
FOR PRODUCT
FOR PRODUCT
WATER = 1

MEASUREMENT
102 DEG.F
2.0-7.5 PSI AT 100F
3.5
5-20%
VARIABLE HIGHLY COLORED LIQUID
.800-1.00

DEQ052271

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PERCENT VOLATILES
EVAPORATION RATE

FOR PRODUCT
ETHYL ETHER =1

50%
>2000

SECTION IV FIRE AND EXPLOSION DATA

FLASHPOINT (TCC) 0 DEG. F
EXPLOSIVE LIMIT (PRODUCT) LOWER - 1.0% UPPER - 35.0%
EXTINGUISHING MEDIA: Alcohol foam or water fog or carbon dioxide or dry chemical.

HAZARDOUS DECOMPOSITION: May form toxic materials:, carbon dioxide and carbon monoxide. Chlorinated components will produce chlorine or other chlorinated compounds. Metal oxides.

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus with full facemask operated in pressure-demand or other positive pressure mode when fighting fires.

UNUSUAL FIRE & EXPLOSION HAZARDS: Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors, static discharge, or other ignition sources at locations distant from material handling point.

Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

NFPA CODES: HEALTH - 2 FLAMMABILITY - 4 REACTIVITY - 0

SECTION V HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL unknown
THRESHOLD LIMIT VALUE unknown

EFFECTS OF OVEREXPOSURE: FOR PRODUCT

EYES - Causes irritation, redness, tearing, blurred vision.
Liquid can be painful and irritating to eyes.

SKIN - Can cause irritation, scaling, & fissured dermatitis.
Prolonged or repeated skin contact can cause eczema. Extensive skin absorption can result in kidney, liver and central nervous system damage.

INHALATION - Excessive inhalation of vapors can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, and euphoria, intoxication, narcosis, unconsciousness; coma, death. Significant overexposure can result in kidney and liver damage and central nervous system damage.

INGESTION - Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Aspiration into lungs can cause chemical pneumonitis which can be fatal.

FIRST AID:

SKIN: Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before re-use.

EYES: Flush with large amounts of water, lifting upper and lower lids

DEQ052272

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10/11/93
10/11/93
10/11/93

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occasionally, get medical attention.
INGESTED: Get medical advise in the need to induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.
INHALATION: If affected, remove individual to fresh air. If breathing is difficult administer oxygen. If breathing has stopped give artificial respiration. Keep person warm, quiet and get medical attention.

PRIMARY ROUTE(S) OF ENTRY:

Inhalation
Skin absorption
Skin contact

SECTION VI - REACTIVITY DATA

HAZARDOUS POLYMERIZATION: can not occur
STABILITY Stable
INCOMPATIBILITY: Avoid contact with strong oxidizing agents.

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled.

SMALL SPILL: Absorb liquid on paper, vermiculite, floor absorbent, or other absorbent material and transfer to drum or sealed container.

LARGE SPILL: Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquids to salvage tank. Remaining liquid may be taken up by sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

Prevent liquid from entering sewers or waterways. Advise authorities of spill.

WASTE DISPOSAL METHOD:

SMALL SPILL: Dispose of in accordance with all local, state and federal regulations.

LARGE SPILL: Dispose of in accordance with all local, state and federal regulations.

SECTION VIII - PROTECTIVE EQUIPMENT TO BE USED

RESPIRATORY PROTECTION: If TLV of the product or any component is exceeded,

DEQ052273

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RECOVER
MSP 9/73

NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified conditions. (See your safety equipment supplier). Engineering or administrative controls should be implemented to reduce exposure.

VENTILATION: Provide sufficient mechanical (General and/or local exhaust) ventilation to maintain exposure below TLV(s).

PROTECTIVE GLOVES: Wear chemical resistant gloves.

EYE PROTECTION: Chemical splash goggles in compliance with OSHA regulations are advised, however, OSHA regulations also permit other type safety glasses. (consult your safety equipment supplier).

OTHER PROTECTIVE EQUIPMENT: To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

SECTION IX - SPECIAL PRECAUTIONS OR OTHER COMMENTS

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in this data sheet must be observed. Long term animal studies show that components of this product produces kidney and liver damage and may be considered a carcinogen in drinking water of >10 ppm by ingestion.

The information accumulated herein is believed to be accurate but recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

Status electricity is a common cause of ignition that must be controlled when using this product.

Use only well ventilated area, and use spark-resistant tools.

"Solvent derived fuel" is subject to regulation under the Resource Conservation and Recovery Act as "Hazardous Waste Fuel" and should be managed in accordance with regulations adopted thereunder.

SECTION X - INGREDIENTS BY CLASS

OILS: Castor, Coconut, Lecithin, Linseed, Oiticica, Petroleum, Pine, Soybean, Tall, Tung, Vegetable, Fish, Silicone.

RESINS & POLYMERS: Acetate, Acrylics, Acrylates, Alkyds, Amidoamine, Amino, Butylated, Carboxylated, Cellulosic, Coumarone, Indene, Epoxy, Gum-natural, Isocyanate, Latex, Phenolic, Polyamide, Polyesters, Polyvinyl, Silicone, Styrene & Copolymers, Terpene, Urethane, Hydrocarbons.

SOLVENTS: Alcohols, Aliphatics, Aromatics, Chlorinated, Esters, Ethers, Glycols, Hydrocarbons, Ketones, Oxygenated, Petroleum, Terpenes.

METALS: Aluminum, Zinc, Molybdenum, Copper, Nickel, Cobalt, Gold, Tin.

PIGMENTS & DYES: Aluminum Silicate, Silica, Barytes, Bismuth Oxichloride, Black's, Bone, Lamp, Carbon, Channel, Cadmium, Calcium Carbonate, Calcium Chromate, Calcium Silica, Clays, Lead Carbonate, Lead Sulfate,

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NOTICE: If the film image is less clear than this notice, it is due to the quality of the document being filmed

Nickel Chloride, Nickel Sulfate, Strontium Chromate, Talc, Zinc Chromate, Barium Sulfate.

METAL OXIDES: Oxides, Cerium, Cobalt, Nickel, Iron, Antimony, Chrome, Copper, Silver, Titanium, Zinc, Magnesium.

MISC. AGENTS: Algecides, Fungicides, Bacteriacide, Anti-Cratering Agents, Anti-Floating Agents, Anti-Flooding Agents, Anti-foaming Agents, Anti-Mar Agents, Anti-Sagging Agents, Anti-settling Agents, Anti-Skinning Agents, Chelated Agents, Chlorinated Rubber, Chlorinated Paraffins, Chlorinated Wax, Corrosion Inhibitors, Coupling Agents, Creosote, Curing Agents, Dispersers, Water.

SECTION XI - SUPPLEMENTAL HEALTH INFORMATION

Carcinogens and any combined effects or concentrations of this variable product are unknown except as noted in Section II of this MSDS, but are not limited to those listed.

U.S. V. MSP

PRODUCED BY MSP 9/93

Releasable

REPORT

NOTES: 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 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MARINE SHALE PROCESSORS, INC.
MATERIALS CHARACTERIZATION DATA SHEET

MCDS Document #

SALES (504) 465-3310
PLANT (504) 631-3626

MSP CODE: ERN-880801

880801 FEB 1 88

Generator Name EMR, INC.
Facility Address 2390 South Broadway Street
Post Office Box 160
City, State, Zip Coal City, IL 60416
Technical Contact Robert P. Blondin
Title Operations Manager
Telephone NO. (815) 634-2211 EXT.
Facility EPA ID # ILD087157251

Bill to: EMR, INC., 130 Freight St., Waterbury, CT 0670

Company Contact: Phyllis / Accounting
Container Size: 55-gallon
EPA Waste No. D001 / F001 / F002 / F003 / F005
Generating Process fuel blending
Common Name of Waste DRUM BOTTOMS, FILTERS & DEBRIS
Rate of Generation 90-100 dr. PER month
Volume In Storage 50 - 80 DR IN 55-gallon steel
Is Waste DOT Hazardous YES 1 NO
Proper DOT Shipping Name WASTE FLAMMABLE SOLID, N.O.S.
Hazard Class Flammable Solid UN1325
Transportation Equipment van
Placarding 1325

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Solvents (MEK, Toluene, Xylene, Benzene) 1-5
Soiled cloth debris (rags, filters, etc) 0-15
Ink varnish 1-15
Paint (solids - enamel) 10-15
organic polymers - fully polymerized 5-90
Waste plastic resins " polymerized 5-20
Waste Styrene - fully polymerized 0-5
Water 1-10

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	.002	Silver (Ag)	.01
Barium (Ba)	.06	Copper (Cu)	.5
Cadmium (Cd)	.56	Nickel (Ni)	.2
Chromium (Cr)	.04	Zinc (Zn)	.1
Lead (Pb)	<.1		
Mercury (Hg)	.002		
Selenium (Se)	<.002		

INORGANICS (mg/l or ppm)

Total CN	-0-	Iodine	-0-
Free CN	-0-	Asbestos	↓
Sulfide	<.01		
Chloride	-0-		
Bisulfite			
Sulfite			
Sulfate			
Phosphate			
Flourine			
Bromine	-0-		
Chlorine	0 to 20,000ppm		

ORGANICS (mg/l or ppm)

Endrin	-0-	Organohalide	-0-
Methoxychlor		Mercaptans	↓
Toxaphene			
2,4-D			
2,4,5-T			
Phenolics			
PCBs			
Dioxin			
TOC			

PHYSICAL DESCRIPTION

Physical State ☐ Liquid ☐ Semi-solid ☒ Solid
Phases/Layering ☐ Uni-Layer ☐ Bilayer ☒ Multilayer
Viscosity ☒ High ☐ Medium ☐ Low
Type of Solids ☒ Organic ☐ Inorganic ☐ Mixed
Total Solids (wt. %) 95.8 Suspended Solids (wt. %) 5.8
BTU/lb 9,000 % Ash Content <2-10 % Water (by weight) 5.8
Flash Point (°F) 75 Type closed cup
Specific Gravity 1.2
Boiling Point (°C) Freezing Point (°C)
Vapor Pressure (mm Hg @ 24°C)
pH (Avg) 6 (Range) 4 to 10
Total Alkalinity/Acidity (%)
Odor slight solvent
Color varies

HAZARDOUS PROPERTIES

☐ Water Reactive	☐ Reactive	☐ NONE
☐ Shock Sensitive	☐ Pyrophoric	☐ Explosive
☐ Radioactive	☐ Pesticide Residuals	☐ Polymizable
☐ Corrosive	☐ Toxic Vapor	☐ Ignitable
☐ Biological	☐ Etiological	☐ Pathogen
☒ Other <u>flammable</u>		

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORTS, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

CERTIFICATION: 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 omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE January 28, 1988

GENERATOR'S SIGNATURE: Robert Blondin

PRODUCED BY MSP
REQUEST 1/9/93
NATIONAL HAZARDOUS WASTE
INFORMATION CENTER

MSD054

23661

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE ✓
MANIFEST No. 015839

Please print or type (Form designed for use on office (12-pitch) typewriter.)

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address GENERAL EQUIPMENT 3300 PERN VALLEY ROAD, LOUISVILLE, KY 40213 ✓		4. Generator's Phone (502) 960-2386 ✓	5. Transporter 1 Company Name HIGHEST ENVIRONMENTAL TRANSPORT ✓	6. Transporter 1 US EPA ID Number 1111111111111111 ✓	7. Transporter 1 Phone (513) 874-1144 ✓
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380 ✓		10. Facility's US EPA ID Number LA10981057706 ✓	8. Facility's Phone (504) 631-3161 ✓		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) a. "RQ" WASTE COMBUSTIBLE LIQUID, N.O.S., 11 1993 (Combustible Liquid) (F003, D001) RQ = 100 lbs. (Isotone, Percins, Gardener)		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
		01011 OM	204157	P	F003 ✓ D001 ✓ R
J. Additional Descriptions for Materials Listed Above a. PROFILE #EVG/GDQ/9002835 ✓		K. Handling Codes for Wastes Listed Above S01/T07		RECYCLE / REUSE	
15. Special Handling Instructions and Additional Information FILL TO: THE RECYCLING CO., P.O. BOX 44307, BATON ROUGE, LA 70804 Emergency Contact - FOR EMERGENCY CALLS ONLY - 1-800-424-0000 DAY OR NIGHT IF UNABLE TO DELIVER, RETURN TO GENERATOR REGISTRANT COMPANY: THE RECYCLING CO.					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
17. Transporter 1 Acknowledgement of Receipt of Materials		18. Transporter 2 Acknowledgement of Receipt of Materials			
Printed/Typed Name L. F. GORDON, JR.		Signature [Signature]		Month Day Year 11/12/15	
Printed/Typed Name L. F. GORDON, JR.		Signature [Signature]		Month Day Year 11/12/15	
19. Discrepancy Indication Space		DEQ052277			
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.					
Printed/Typed Name Gina Bennett		Signature [Signature]		Month Day Year 11/12/15	

206 Form 3212 (Rev. 9/92)

WHITE - DEQ GREEN - Generator YELLOW - TSDRF BLUE - Transporter 2 PINK - Transporter 1 GOLD - Generator

HAZARDOUS WASTE DIVISION

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RECEIVED
11/12/15
11/12/15

MSD054

2367 F



MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

MAY 21 1990

9002835

For MSP Use Only

Approval Code EVC/GEQ/9002835

A. Generator Information

Generator Name General Equipment
Site Address 3300 Fern Valley Rd
City Louisville State KY Zip Code 40213
Generator Contact Hank Beyer
Title Facility Manager/Supervisor
Telephone No. (502) 969-2386
Facility EPA ID No. KYD 006377683

B. Customer Information

Company Name The Evergreen Group
Contact Brent Fryrear
Address P.O. Box 839
Crestwood, KY 40014
Telephone No. (502) 241-4141
For Customer Use

C. Regulatory Information

☒ RCRA Regulated☒ Land Ban☐ Non-RegulatedEPA Waste Code(s) F003, D001

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%.)

	MIN	MAX
<u>Acetone</u>		<u>5%</u>
<u>Epoxy Resin</u>		<u>40%</u>
<u>Hardener</u>		<u>55%</u>

Common Name of Waste: Still bottoms

E. General Characteristics

Color: Black
Odor: ☐ None ☒ Mild solvent ☐ Strong
☐ Liquid ☒ Sludge ☐ Solid ☐ Powder
Phases: ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:			
Radioactive?	Y ☒ N	Polymerizable?	Y ☒ N
Infectious?	Y ☒ N	Pyrophoric?	Y ☒ N
Water Reactive?	Y ☒ N	Explosive?	Y ☒ N

G. Physical/Chemical Properties

Ash (list actual Wt %) 62% Water (Wt %) ☒ 5-10 ☐ 1-5 if > 10
BTU's per lb (list actual value) 500 list actual _____
Specific Gravity ☐ < 0.8 ☐ 1.2-1.4 ☐ 0.8-1.0 ☐ 1.4-1.7 ☐ 1.0-1.2 ☐ > 1.7
list actual > 5000 cps
Viscosity (for bulk liquids only) list actual in centipoise _____ cp
Total Suspended Solids (Wt % for bulk liquids only) ☐ 5-20 ☐ > 20
list actual _____
pH ☐ 2-6 ☒ 6-10 ☐ 10-12.5
if < 2 or > 12.5 list actual _____

Flash Point (closed cup)

☐ < 100°F ☐ > 200°F
☐ 100°-140°F ☐ _____°F
☒ 140°-200°F actual _____

Sulfur (Wt %)

< 5
if > 5 list actual value _____

Halogens (Wt %)

☒ Iodine ☐ 1-5 ☐ 5-10 ☐ > 10 list actual Wt %
☒ Bromine ☐ ☐
☒ Chlorine ☐ ☐
☒ Fluorine ☐ actual Wt %

DEQ052278

Metals: EPA Toxicity Test (ppm/l)

Asenic (As) < 1 Selenium (Se) < 1
Barium (Ba) 13 Silver (Ag) < 1
Cadmium (Cd) < 1 Copper (Cu) 33
Chromium (Cr) 5 Nickel (Ni) 6
Lead (Pb) 22 Zinc (Zn) 199
Mercury (Hg) < 1

Organics (ppm)

Endrin 0
Lindane 0
Methoxychlor 0
Toxaphene 0
2,4-D 0
2,4,5-TP (Silvex) 0

If material contains the following compounds, indicate actual ppm:

PCB 0
Cyanides 0
Sulfides 0
Dioxin 0

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PRODUCED BY MSP 9/93
REQUESTED BY
WILLIAM H. HARRIS, JR.
Masterfile 9/93

MSD054

2368

BOX 15 REQUEST
LATHAM HERBALS 9/10/08
Moose, MO

03 V. MBP
Releaseable

MSDO54

11

Generating Process: Still bottoms distilled

Please attach all materials safety data sheets, logistic sketches, analysis reports, handling precautions, additional hazardous support information, data and comments.

DOT Hazardous Material (Y) N
Proper Shipping Name Reg Waste Combustible Liquid, NOS DOT LD. No. 1993 (circle one)
~~NA~~

Hazard Class: Combustible liquid RQ 100 lbs

Anticipated Volume 50 Drums Gal Yds Lbs ☐ Bulk? ☐ Retail

Container Size 55 gal Container Type 1711

Per ☐ One time ☐ Week ☐ Month ☒ Year ☐ Other

Certification

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 willful omission of composition or properties exist, and that all known or suspected hazards have been disclosed, I certify that the materials tested are representative of all material described by this Materials Characterization Data Sheet.

1. Hank Beyer
Generator's Signature

2. HANK BEYER
Name (Type or Print)

3. 5-16-90

4. Sitop Super

Recertification Requirements

This Materials Characterization Data Sheet must be recertified (i.e. updated) twelve months from the date signed and thereafter recertified on an annual basis. In addition, if the characteristics of the material change or if the generating process changes, a new MCDS must be submitted for approval prior to shipment.

DEQ052279

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Under the provisions of the Resource Conservation and Recovery Act

MSD054

23711

CUSTOMER SURVEY



safety-kleen

FLUID RECOVERY

PAGE 1 OF 2
COMPLETE: 11/11/89
CONTROL#: 0048901-9
SAMPLE#: 084658

ACCEPT

NO ATTACHMENT

CUSTOMER INFORMATION:

GENERAL EQUIPT
3300 FERN VALLEY RD
LOUISVILLE

KY 40213

ATTN: HANK BEYER

BRANCH: 409101 KEITH MILLER COUNTY: JEFFERSON EPA# KYD006377683

NATURE OF BUSINESS: MFG SWITCHES

MANIFEST ADDRESS IS FACILITY

MANIFEST TO SAFETY-KLEEN

SIC #: 3622

MATERIAL: STILL BOTTOMS FROM ACETONE

VOLUME: 550 GALS PER YEAR

PROCESS: CLEANUP PROCESS

STORAGE CAPACITY: 55 IN DRUMS

VOLUME ON HAND: 550

SHIPPING FREQUENCY: 12 WKS IN DRUMS

COLOR: BLACK

LAYERS: ONE

PHYSICAL STATE: SOLID

VISCOSITY: HIGH

MATERIAL COMPOSITION(VOL%):

ACETONE

CODE

MIN

MAX

TYPICAL

EPOXY RESIN

ACE

0.0

5.0

HARDNER

0.0

0.0

40.0

RESTRICTED SUBSTANCES: NONE

0.0

55.0

D.O.T. HAZARDOUS MATERIAL: CUSTOMER REQUEST ASSISTANCE

EPA HAZARDOUS WASTE: CUSTOMER REQUEST ASSISTANCE

P.O. NO:

BRANCH: 409101

DATE: 10/26/89

TYPE OF SAMPLE: GRAB

NUMBER OF DRUMS SAMPLED: 0

TAKEN BY: SALESREP

CONTACT: HANK BEYER

TITLE: SHOP SUPER

PHONE: 502-969-2386

CORPORATE REVIEWS: DISPOSITION REVIEWER

DATE

TECHNICAL: ACCEPT

CAP

11/10/89

REGULATORY: ACCEPT

TAL

11/10/89

OPERATING: ACCEPT

JWH

11/11/89

HANDLING CODES: SO1/SO2/T50

PRICING CODE: FH

APPROVED FACILITIES:

(658) SAFETY-KLEEN CORP.

STATE HWY 146

NEWCASTLE KY 40050

FED EPA#: KYD053348108

STATE EPA#:

TELEPHONE: 502/845-2453

IL. AUTH#:

APPROVED 0001011 DRUM OR BULK

DOT-EPA RQ WASTE COMBUSTIBLE LIQUID N.O.S.

DESC. NA1993 (EPA D001)

0000999 SPECIAL NOTICE

PROPER SHIPPING DESCRIPTION WAS BASED

ON KNOWLEDGE OF SIMILAR WASTES, AND

WAS NOT BASED ON THIS SINGLE ANALYSIS.

ADDITIONAL

EPA NO(S):

D005 D007

D008

COMMENTS: OK FOR INCINERATION. FRS CAT IV-H.

THIS SERVES AS NOTICE PER, 40CFR264.12(B), THAT THE FACILITY(IES) NOTED ABOVE HAS THE APPROPRIATE PERMITS AND IS WILLING TO RECEIVE THE MATERIAL DESCRIBED.

DEQ052281

CM0063 MEVA 05/3 1/881

11/21/89

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Releasable

DO NOT WRITE IN THESE SPACES

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2372 F

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE
MANIFEST NO 016559

Form Approved OMB No. 2050-0038 Expires 8-30-91

Please print or type. (Form designed for use on 8 1/2 x 11 inch typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded area is not required by Federal law.
3. Generator's Name and Mailing Address READY MACHINE TOOL & DY 1321 ILLINOIS AVENUE, COVINGTON, LA 70331		4. Generator's Phone (317) 825-3102	5. Transporter 1 Company Name HIDWEST ENVIRONMENTAL TRANSPORT	6. US EPA ID Number 000000000000000000	7. Transporter 1 Phone (513) 874-1144
8. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 80 EAST MORGAN CITY, LOUISIANA 70380		9. US EPA ID Number LA0981057706	10. State Facility's ID (504) 631-3161		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. NON REGULATED MATERIAL (Oil and Absorbent)		612	600	G	NRM R
b.					R
c.					R
d.					R
J. Additional Descriptions for Materials Listed Above a. PROFILE #EVC/RHD/9002921		K. Handling Codes for Wastes Listed Above S01/T07			
15. Special Handling Instructions and Additional Information THE TON OF WASTE GROUP, P.O. BOX 4014 BATON ROUGE, LA 70804 (504) 344-4171					
IF UNABLE TO DELIVER, RETURN TO GENERATOR					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name DARRELL L. HUGHES		Signature DARRELL L. HUGHES		Month Day Year 10/18/91	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name LEONARD E. BASSON		Signature LEONARD E. BASSON		Month Day Year 10/18/91	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space DEQ052282					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name GAILA BASSON					
Signature GAILA BASSON		Month Day Year 10/18/91			

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FOR
RECORD
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2374 L

H. Notes, Additional Information or Special Handling Instructions

Generating Process: lubricating oils removed from machinery
absorbent added

I. Required Protective Equipment and Procedures

Please attach all materials safety data sheets, logistic sketches, analysis reports, handling precautions, additional hazardous support information, data and comments.

J. Shipping Information

DOT Hazardous Material ☒ Y ☐ N
Proper Shipping Name Non-Regulated Material DOT LD. No. NR2M (circle one) UN/NA
Hazard Class NR2M RQ None
Anticipated Volume 13 Drums Gal Yds Lbs ☐ Bulk? ☐ Rail?
Container Size 55 gal Drums Container Type 17H
Per ☒ One Time ☐ Week ☐ Month ☐ Year ☐ Other

Certification

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 willful omission of composition or properties exist, and that all known or suspected hazards have been disclosed, I certify that the materials tested are representative of all material described by this Materials Characterization Data Sheet.

1. Darryl Morehead

Generator's Signature

2. Darryll Morehead

Name (Type or Print)

3. 5/21/90

Date

4. Plant Manager

Title

DEQ052284

Recertification Requirements

This Materials Characterization Data Sheet must be recertified (i.e. updated) twelve months from the date signed and thereafter recertified on an annual basis. In addition, if the characteristics of the material change or if the generating process changes, a new MCDS must be submitted for approval prior to shipment.

Plk use print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-9

ΕΛΛΗΝΙΚΗ ΔΗΜΟΚΡΑΤΙΑ

WHITE - DEO GREEN - Generator YELLOW - ISOB BLUE - Transducer 2 PINK - Transducer 1 GOLD - Generator

INFORMATION REPORT

BOX 15 REQUEST 1
WALTER H. GIBBONS 1/16/68
MADRID, SPAIN

MSD054

251

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THE EVERGREEN GROUP

P.O. Box 389
13001 W. U. S. Hwy 42
Prospect, Kentucky 40059

RECEIVED FROM: Evergreen Group

DATE RECEIVED: 11/03/89

SAMPLE TYPE: Paint Sludge

ANALYSIS NUMBER: 49788

SAMPLED BY: Client

DATE REPORTED: 11/20/89

MARKS: 891007 American Air Filter, Sampled by: Burt

PARAMETER	RESULT	DATE	METHOD	ANALYST
pH	10.	11/03	9040	RN
Flash Point (P.M.C.C.)	35°F	11/14	1010	JS
BTU	1,583.	11/14	----	JS
Ash	79.99 %	11/13	----	JS
% Chlorine	0.15 %	11/14	----	JS

E. P. Extraction procedure performed as specified in Method 1310 as found in "Test Methods for Evaluating Solid Waste" SW-846, 11/86

Arsenic	< 0.05	mg/l	11/08	6010	JDN
Barium	0.23	mg/l	11/08	6010	JDN
Cadmium	0.12	mg/l	11/08	6010	JDN
Chromium	< 0.01	mg/l	11/08	6010	JDN
Lead	0.59	mg/l	11/08	6010	JDN
Mercury	< 0.0002	mg/l	11/08	7470	JDN
Selenium	< 0.05	mg/l	11/08	6010	JDN
Silver	0.02	mg/l	11/08	6010	JDN

DEQ052286

Methods for analysis are taken from the U.S. EPA Methods for Chemical Analysis of Water and Waste Water. EPA-600/4-79-020, March 1979

Reviewed By: *[Signature]*

HAZARDOUS WASTE MANAGEMENT
Transportation • Disposal
Analysis • Consulting

502-228-4170 (24 hrs)
502-228-4171
Fax #502-228-5812

U.S. V. MAP
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REQUEST
Litho. Hologram plates
Master, Red S

MSD054

2376

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NOV-30 1989

MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504 485-3310

For MSP Use Only

Approval Code EVG/AAF/8906173

8906173

A. General Information

Company Name American Air Filter
Address 215 Central Avenue
City Cincinnati State KY Zip Code 40208
Generator Contact Steve Buit
Title Sr. Mfg Engineer
Telephone No. (502) 637-0757
Facility EPA ID. No. KYD 006384168

B. Customer Information

Company Name The Evergreen Group
Contact Brent Fryrear
Address P.O. Box 839
Crestwood, KY 40014
Telephone No. (502) 241-4171
For Customer Use

C. Regulatory Information

☒ RCRA Regulated

☐ Land Ban

☐ Non-Regulated

EPA Waste Code(s) D001, F005

D. Chemical Composition

NO TRADE NAMES - Samples must not exceed 20% Total in maximum column must be greater than or equal to 100%

	MIN	MAX
<u>Paint Solids</u>	<u>85</u>	<u>95</u>
<u>WEEK</u>	<u>5</u>	<u>15</u>

Common name of waste: Paint Sludge

E. General Characteristics

Color Varies
Odor ☐ None ☒ Strong
☐ Liquid ☒ Sludge ☐ Solid ☐ Powder
Phase ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:
Radioactive ☐ Y ☒ N Polymerizable ☐ Y ☒ N
Infectious ☐ Y ☒ N Pyrophoric ☐ Y ☒ N
Water Reactive ☐ Y ☒ N Explosive ☐ Y ☒ N

G. Physical/Chemical Properties

Asph (list actual Wt %): 80% Water (Wt %): 10 Specific Gravity: 1.2 Viscosity: MA cp
BTU's per lb: 1583 list actual: MA list actual: MA pH: 10

Flash Point (closed cup)

☒ < 100°F ☐ > 200°F
☐ 100-140°F ☐ 200-250°F
☐ 140-200°F

Sulfur (Wt %)

0.5
If > 5 list actual value

Halogens (Wt %) < 1 1-5 5-10 If > 10 list actual Wt %
Iodine ☒ 0 0
Bromine ☒ 0 0
Chlorine ☒ 0 0
Fluorine ☐ actual Wt %

Metals EP Toxicity Test (MOL/L)

Arsenic (As) < 0.05
Barium (Ba) 0.23
Cadmium (Cd) 0.12
Chromium (Cr) < 0.01
Lead (Pb) 0.59
Mercury (Hg) < 0.0002

Selenium (Se) < 0.05
Silver (Ag) 0.02
Copper (Cu) 0
Nickel (Ni) 0
Zinc (Zn) 0

Organics (ppm)
Endrin 0
Lindane 0
Methoxychlor 0
Toxaphene 0
2,4-D 0
2,4,5-TF (52-res) 0
If material contains the following compounds, indicate actual ppm:
PCB 0
Cyanides 0
Sulfides 0
Dioxin 0

MSD054

2377

DE0052287

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U.S. MAP PRODUCED BY MAP-9/93

NOTICE: This document is a copy of the original document and is not to be used for any other purpose.

MSD054

2378

H. Notes, Additional Information or Special Handling Instructions

I. Required Protective Equipment and Procedures

Please attach all materials safety data sheets, logistic sketches, analysis reports, handling precautions, additional hazardous support information, data and comments

Generating process: white paint dreges

J. Shipping Information

DOT Hazardous Material ☒ N
Proper Shipping Name Waste Paint Rel. Material DOT ID. No. (single one) UNNA 1263
Hazard Class Flammable Solid/Liquid ¹⁰ 100/lb
Anticipated Volume 10 Drums ☐ Gal ☐ Yds ☐ Lbs ☐ Bulk ☐ Rail
Container Size 55 gal Container Type 17E
Per ☐ One time ☐ Week ☐ Month ☐ Year ☒ Other Quarter

K. Certification

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 willful omission of composition or properties exist, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all material described by this Materials Characterization Data Sheet.

1. Stephen G. Smith
Generator's Signature

2. Steve Buit
Name (Type or Print)

3. 28 November 1989
Date

4. Senior Project Engineer
Title

L. Recertification Requirements

This Materials Characterization Data Sheet must be recertified (i.e. updated) twelve months from the date signed and thereafter recertified on an annual basis. In addition, if the characteristics of the material change or if the generating process changes, a new MCDS must be submitted for approval prior to shipment.

DEQ052288

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PRODUCED BY MSP 9/93
RECEIVED
MSP 11/28/89
MSP 11/28/89

MSD054

2379

NOV 30 1989

**RECERTIFICATION OF
MATERIAL CHARACTERIZATION DATA SHEET**

MSP Approval Code
EVE / ABE / 0701091 / 1

Instructions: A copy of the M.C.D.S. to be recertified is attached to this Recertification Form. We ask that you complete the remainder of this form and have it signed by an authorized technical contact.

Return this form with any attachments to: **MARINE SHALE PROCESSORS, INC.**
Post Office Box 1698
Kenner, LA 70063
Attention: Technical Review

A. GENERAL INFORMATION

Generator Name: AMERICAN AIR FILTER Telephone: (502) 637-0757 x.0000
Facility Address: 215 Central Avenue USEPA ID: KY9006384168
Louisville, KY 40208-0000

Name of Waste: PAINT STILL BOTTOM Generating Process: _____
Technical Contact: Stephen Buit Title: Sr. Mfg. Eng.

B. CHANGES OR ADDITIONS SINCE LAST MCDS PREPARATION

1. Have you obtained any laboratory analysis of this waste? (If yes, attach results) ☐ yes ☒ no
2. Have you changed the raw materials used in the waste generating process? ☐ yes ☒ no
3. Have you changed the waste generating process itself? ☐ yes ☒ no
4. Are you aware of any facts or circumstances which have, or reasonably could have, altered the physical or hazardous characteristics, or chemical composition of the waste? ☐ yes ☒ no
5. Are you aware of any human health effects of exposure to the waste not previously described? ☐ yes ☒ no
6. If you answered "yes" to questions 2, 3, 4, or 5, please provide details below:

DEQ052289

IF THERE HAVE BEEN ANY SUBSTANTIAL CHANGES, A NEW MCDS MUST BE SUBMITTED.

SHIPPING INFORMATION

Method of Shipment: ☐ Bulk Liquid ☐ Bulk Solid ☒ Drum (type/size) 17 E 55gal
Anticipated Volume: 55 Gals. _____ Cubic Yds. _____ Other _____
Per: ☐ One Time ☐ Week ☐ Month ☐ Quarter ☒ Year

RECERTIFICATION

I am an employee of the generator authorized to sign this Recertification. The information provided in the recertified waste profile sheet attached hereto, and the information supplied above, are complete, true and correct.

Name: Steve Buit Signature: Steve Buit
Title: Senior Manufact. Engineer Date: 28 November 1989

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US V. MSP
PRODUCED BY MSP 9/93
REQUEST
WATER, HEAVY METALS, PESTICIDES
NITRATES, NITRITES

MSD054

2380

MANUFACTURER (504) 767-0034
PLANT (504) 631-3626

Ro 874091

HSP CODE: EVG/MAF-PH01

Generator Name: American Air Filter
Facility Address: 215 Central Avenue

City, State, Zip: Louisville, Kentucky 40208
Technical Contact: Stephen Burt
Title: Senior Manufacturing Engineer
Telephone (H): (502) 631-0757 (H)
Facility (FA ID): ICM 006384168

CHEMICAL COMPOSITION

(Totals must add up to 100 %)

Component	Percentage (%)
Paint Still Bottoms	100

METALS (EP Toxicity Test, mg/l)

Element (mg/l)	Value	Element (mg/l)	Value
Arsonic (As)	0.1	Silver (Ag)	0.1
Cadmium (Cd)	0.1	Copper (Cu)	0
Chromium (Cr)	0.1	Nickel (Ni)	0
Lead (Pb)	0.1	Zinc (Zn)	0
Mercury (Hg)	0.001		
Selenium (Se)	0.1		

INORGANICS (mg/l or ppm)

Element (mg/l or ppm)	Value	Element (mg/l or ppm)	Value
Total CN	0	Bromine	0
Free CN	0	Iodine	0
Sulfide	0	Asbestos	0
Bisulfide	0		
Sulfite	0		
Sulfate	0		
Phosphate	0		
Fluorine	0		
Chlorine	0		
Chloride	0		

ORGANICS (mg/l or ppm)

Element (mg/l or ppm)	Value	Element (mg/l or ppm)	Value
Formal	0	Organohalide	0
Bellinophlor	0	Mercaptans	0
Isopropyl	0		
2, 4-D	0		
2, 4, 5-T	0		
Fluorobenz	0		
PCB	0		
ICS	0		
PCN	0		
CCP	0		

CERTIFICATION: 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 omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE: 12-6-87

SIGNATURE: Stephen R. Burt

DEQ052290

HSP FORM 1010 (REV. 7/75/33)

SUBMITTED BY: The Evergreen Group - Tom Smith
(Customer) 502-228-4170

Container Size: 55 gal Drum
EPA Waste No.: F005 2001
REASON: MCK. Solvent + Flash
Common Name of Waste: Paint Still Bottom
Rate of Generation: 1 drum per year
(Quart) (Units) (Time Interval)
Volume in Storage: 1 IN drum
(Quart) (Units) (Container)

Is Waste DOT Hazardous: ☒ YES ☐ NO
Proper DOT Shipping Name: West Flammable Solids UN 1225
Hazard Class: ELAM ID No.: UN 1225
Transportation Equipment: _____
Placarding: _____
Generating Process: _____

PHYSICAL DESCRIPTION

Physical State: ☐ Liquid ☒ Semi-solid ☐ Solid
Phases/Layering: ☐ None ☐ Bifayered ☐ Multilayered
Viscosity: ☒ High ☐ Medium ☐ Low
Type of Solids: ☐ Organic ☐ Inorganic ☐ Mixed
Total Solids (wt %): 100 Suspended Solids (wt %): _____
MS/MS: 500+MS Ash Content: _____
Flash Point (°F): 126 Type: CC
Specific Gravity: _____
Boiling Point (°C): _____ Freezing Point (°C): _____
Vapor Pressure (mm Hg @ 21°C): _____
pH (Avg): 6-9 (Range): _____ to _____
Total Alkalinity/Acidity (%): _____
Odor: Paint
Color: Various

HAZARDOUS PROPERTIES

☐ Ignitable ☐ Corrosive Steel ☐ Toxic Vapor
☐ Reactive ☐ Pyrophoric ☐ Shock Sensitive
☐ Explosive ☐ Water Reactive ☐ Radioactive
☐ Biological ☐ Pathogen ☐ Etiological
☐ Pesticide Residuals
☐ Other: _____

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

None

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORT, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

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US V. MSP
PRODUCED BY MSP 8/93
REQUEST 1/93
NOTES: This is a duplicate of the original document.

MSD054

2381

MARKETING (504) 767-0934
PLATE (504) 631-3626

Re 874091

MSP CODE: EVG/ANF-8401

Generator Name American Air Filter
Facility Address 215 Central Avenue
City, State, Zip Louisville, Kentucky 40208
Technical Contact Stephen Burt
Title Senior Manufacturing Engineer
Telephone (H) (502) 639-0757 (X) _____
Facility EPA ID # KYD 006384168

CHEMICAL COMPOSITION

(Details must add up to 100 %)

Component	Percentage (%)
Paint Still Bottoms	100

METALS (EP Toxicity Test, mg/l)

Element	Concentration (mg/l)
Arsenic (As)	<.01
Cadmium (Cd)	.61
Chromium (Cr)	.17
Copper (Cu)	0
Lead (Pb)	<.01
Mercury (Hg)	<.001
Nickel (Ni)	0
Silver (Ag)	<.01
Sulfur (S)	<.01
Zinc (Zn)	0

INORGANICS (mg/l or ppm)

Compound	Concentration (mg/l or ppm)
Total CH	0
Free CH	0
Sulfide	0
Bisulfide	0
Sulfite	0
Sulfate	0
Phosphate	0
Fluoride	0
Chloride	0
Chloride	0

ORGANICS (mg/l or ppm)

Compound	Concentration (mg/l or ppm)
Endrin	0
Methoxychlor	0
Toxaphene	0
2, 4-D	0
2, 4, 5-T	0
Phenol (free)	0
PCB	0
HC	0
PCB	0
PCB	0

(CERTIFICATION: 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 omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE 12-6-87

SIGNATURE

Stephen R. Burt

MSP FORM 1010 (REV. 7/25/37)

DEQ052291

SUBMITTED BY: The Evergreen Group Tom Smith
(Customer) 502-228-4170
Container Size: 55 gal Drum
EPA Waste No. F005 0001
REASON MEK Solvent + Flash
Common Name of Waste Paint Still Bottom
Rate of Generation 1 drum per year
(Quan) (Units) (Time Interval)
Volume in Storage 1 IN drum
(Quan) (Units) (Container)
Is Waste DOT Hazardous (X) YES () NO
Proper DOT Shipping Name West Hemlock Solids NOS
Hazard Class Flam ID No. UN 1325
Transportation Equipment _____
Packaging _____
Generating Process _____

PHYSICAL DESCRIPTION

Physical State () Liquid (X) Semi-solid () Solid
Phases/Layering (X) None () Bifayered () Multilayered
Viscosity (X) High () Medium () Low
Type of Solids () Organic () Inorganic () Mixed
Total Solids (wt %) 100 Suspended Solids (wt %) _____
NOM/16 5000 ± 100 % Ash Content _____
Flash Point (°F) 126 Type CC
Specific Gravity _____
Boiling Point (°C) _____ Freezing Point (°C) _____
Vapor Pressure (mm Hg @ 21°C) _____
pH (Avg) 6-9 (Range) _____ to _____
Total Alkalinity/Acidity (X) _____
Odor Paint
Color Various

HAZARDOUS PROPERTIES () NONE

() Ignitable () Corrosives Steel () Toxic Vapor
() Reactive () Pyrophoric () Shock Sensitive
() Explosive () Water Reactive () Radioactive
() Biological () Pathogen () Ecological
() Pesticide Residuals
() Other _____

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

None

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORT, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

ANALYTICAL LABORATORIES
LOUISVILLE TESTING LABORATORY, INC.

1401 WEST CHESTNUT STREET

LOUISVILLE, KY. 40203

Certificate of analysis No. 8295 Date received 10/20/87

Marks American Air Filter, paint From The Evergreen Group
Still bottom, #8710265-2

Closed Cup Flash Point - 126°F
Corrosivity - NON Corrosive
Reactivity - NON Reactive

LEACHATE TOXIC METALS:

Arsenic - less than .01 ppm
Cadmium - .61 ppm
Chromium - .17 ppm
Lead - less than .01 ppm
Mercury - less than .001 ppm
Selenium - less than .01 ppm
Silver - less than .01 ppm
Barium - 1.60 ppm

Reported 10/29/87

LOUISVILLE TESTING LABORATORY, INC.

By

H. Smith Jr.

DEQ052292

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LOUISVILLE TESTING LABORATORY, INC.
10/29/87

MSD054

2382 L

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US V. MSP
PRODUCED BY MSP 9/93
Requester's Name
Hazardous Waste
Manifest

MSD054

2383 F

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE ✓

MANIFEST NO 015462

Form Approved OMB No. 2050-0039 Expires 9-30-91

1. Generator's US EPA ID No. KY 0000637863290008
2. Page 1 of 1
3. Generator's Name and Mailing Address KENTUCKY MANUFACTURING
2601 SOUTH THIRD STREET, LOUISVILLE, KY 40208
4. Generator's Phone (502) 637-2551
5. Transporter 1 Company Name MIDWEST ENVIRONMENTAL TRANSPORT
6. US EPA ID Number 000082603046
7. Transporter 2 Company Name
8. US EPA ID Number
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC.
HIGHWAY 90 EAST
MORGAN CITY, LOUISIANA 70380
10. US EPA ID Number LA 0981057706
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)
a. "RQ" WASTE PAINT RELATED MATERIAL FLAMMABLE SOLID NA 1263 (D001, F005) 125 DIM 1121510 P D001 F005
b. "RQ" WASTE PAINT RELATED MATERIALS FLAMMABLE SOLID NA 1263 (D001, F005) 403 DIM 11131510 P D001 F005
c. "RQ" WASTE PAINT RELATED MATERIAL FLAMMABLE LIQUID NA 1263 (D001, F005) 0102 DIM 119100 P D001 F005
d. R
12. Containers No. Type
13. Total Quantity
14. Unit Wt/Vol
15. Waste No.
16. Additional Descriptions for Materials Listed Above
a. PROFILE #EVG/KEM/8802396
b. PROFILE #EVG/KEM/8800062
c. RECYCLE / REUSE PROFILE #EVG/KEM/8905632
K. Handling Codes for Wastes Listed Above
S01/T07
17. Special Handling Instructions and Additional Information
EMERGENCY CONTACT - FOR CHEMICAL EMERGENCIES CALL CHEMURGO - 1-800-424-8300 DAY OR NIGHT
IF UNABLE TO DELIVER, RETURN TO GENERATOR REGISTRANT COMPANY: THE SUPERIOR GROUP
18. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.
Printed/Typed Name DAVID FRENCH
Signature David E. French
Month Day Year 10/12/90
19. Transporter 1 Acknowledgement of Receipt of Material
Printed/Typed Name LEONARD FRASURE
Signature Leonard Frasure
Month Day Year 10/12/90
20. Transporter 2 Acknowledgement of Receipt of Material
Printed/Typed Name
Signature
Month Day Year
21. Discrepancy Indication Space
DEQ052293
22. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name GINA BASSETT
Signature Gina Bassett
Month Day Year 10/12/90

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PRODUCED BY MSP 9/93
RECEIVED
WORTHINGTON, MISSISSIPPI
MAR 12 1990

MSD054

2384

RECERTIFICATION OF MATERIAL CHARACTERIZATION DATA SHEET		MSP Approval Code
Date printed: 2/27/90	Rep. ID: CKH	EVE / KEM / 8802396 /
Instructions: A copy of the M.C.D.S. to be recertified is attached to this Recertification Form. We ask that you complete the remainder of this form and have it signed by an authorized technical contact. Please return a copy of the M.C.D.S. being recertified with this form. Return this form with any attachments to: MARINE SHALE PROCESSORS, INC. 110 James Dr. West, Suite 120 St. Rose, LA 70087 Attention: Technical Review		
A. GENERAL INFORMATION		
Generator Name: KENTUCKY MFG.	Telephone: (502) 637-2551 x.0000	
Facility Address: 2603 SOUTH THIRD ST	USEPA ID: KYD006378632	
LOUISVILLE, KY 40208-0000		
Name of Waste: WASTE PAINT SLUDGE	Generating Process:	
Technical Contact: DAVID FRENCH	Title:	
B. CHANGES OR ADDITIONS SINCE LAST M.C.D.S. PREPARATION		
1. Have you obtained any laboratory analysis of this waste? (If yes, attach results)..... ☐ yes ☒ no		
2. Have you changed the raw materials used in the waste generating process?..... ☐ yes ☒ no		
3. Have you changed the waste generating process itself?..... ☐ yes ☒ no		
4. Are you aware of any facts or circumstances which have, or reasonably could have, altered the physical or hazardous characteristics, or chemical composition of the waste?..... ☐ yes ☒ no		
5. Are you aware of any human health effects of exposure to the waste not previously described?..... ☐ yes ☒ no		
6. If you answered "yes" to questions, 2, 3, 4, or 5 please provide details below:		
DEQ052294		
IF THERE HAVE BEEN ANY SUBSTANTIAL CHANGES, A NEW M.C.D.S. MUST BE SUBMITTED.		
SHIPPING INFORMATION		
Method of Shipment: ☐ Bulk Liquid ☐ Bulk Solid ☒ Drum (type/size) 7 H/55 gal		
Anticipated Volume: _____ Gals. _____ Cubic Yds. Other 3 drums		
Per: ☐ One Time ☐ Week ☐ Month ☐ Quarter ☒ Year		
RECERTIFICATION		
I am an employee of the generator authorized to sign this Recertification. The information provided in the recertification of M.C.D.S. attached hereto, and the information supplied above, are complete, true and correct.		
Name: DAVID FRENCH	Signature: [Signature]	
Title: SAFETY DIR	Date: 3-8-90	



MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

For MSP Use Only 8802396

Approval Code -

A. Generator Information

Generator Name Kentucky Manufacturing
Site Address 2601 South Third Street
Cy Louisville State Ky Zip Code 40208
Generator Contact David French
Title Safety Director
Telephone No. 502 637-2551
Facility EPA ID No. KYD006378632

B. Customer Information

Company Name The Evergreen Group
Contact Brent A. Flyre
Address P.O. Box 839
Crestwood, Ky 40014
Telephone No. (502) 241-4171
For Customer Use FAX 241-4347

C. Regulatory Information

☒ RCRA Regulated

☐ Land Ban

☐ Non-Regulated

EPA Waste Code(s)

D001, F005

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%.)

	MIN	MAX
<u>Waste paint</u>	<u>70</u>	<u>75%</u>
<u>Waste MEK</u>	<u>20</u>	<u>25%</u>
<u>Diesel / Fuel Oil</u>	<u>10</u>	<u>5%</u>

Common Name of Waste: Waste Paint Sludge

E. General Characteristics

Color: Varies
Odor: ☐ None ☒ Mild ☐ Strong
☐ Liquid ☒ Sludge ☐ Solid ☐ Powder
Phases ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:

Radioactive?	Y ☒	Polymerizable?	Y ☒
Infectious?	Y ☒	Pyrophoric?	Y ☒
Water Reactive?	Y ☒	Explosive?	Y ☒

G. Physical/Chemical Properties

Ash (Est actual Wt %)	Water (Wt %)	Specific Gravity	Viscosity	Total Suspended Solids	pH
<u>20-30</u>	<u>12.1</u> ☐ 5-10	☐ < 0.8 ☐ 1.2-1.4	(for bulk liquids only)	(Wt % for bulk liquids only)	☐ 2-6 <u>AC-10</u>
BTUs per lb	☐ 1-5 ☒ > 10	☐ 0.8-1.0 ☐ 1.4-1.7	Est actual in centipoise	☐ 5-20	☐ 10-12.5
(Est actual vol)	Est actual	☒ 1.0-1.2 ☐ > 1.7	cp	if > 20	if < 2 or > 12.5
<u>15,433</u>		Est actual		Est actual	Est actual

Flash Point (closed cup)

AC ☒ < 100°F ☐ > 200°F
☐ 100°-140°F ☒ 32 °F
☐ 140°-200°F actual

Sulfur (Wt %)

12.5
if > 5 list actual value

Halogens (Wt %)	<1	1-5	5-10	if > 10 list actual Wt %
☐ Iodine	<u>AC</u>	☐	☐	
☐ Bromine	<u>AC</u>	☐	☐	
☐ Chlorine	<u>AC</u>	☐	☐	
☐ Fluorine		actual	Wt %	

Metals: EP Toxicity Test (MG/L)

Arsenic (As) < 0.01
Barium (Ba) < 0.01
Cadmium (Cd) < 0.01
Chromium (Cr) < 0.01
Lead (Pb) 0.36
Mercury (Hg) < 0.001

Selenium (Se) < 0.01
Silver (Ag) < 0.01
Copper (Cu) 0
Nickel (Ni) 0
Zinc (Zn) 0

Organics (ppm)

Endrin 0
Lindane 0
Methoxychlor 0
Toxaphene 0
2,4-D 0
2,4,5-TP (Silvex) 0

If material contains the following compounds, indicate actual ppm:

PCB 0
Cyanides < 1
Sulfides < 1
Dioxin 0

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Box 5-5
Produced by MSP 9/93
Requester
Waste Management
Master Reps

MSD054

2385

DEQ052295

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DO NOT WRITE IN THESE SPACES
UNLESS SPECIFICALLY REQUESTED BY THE PRODUCER
PRODUCED BY MSP 9/93
RECEIVED BY MSP 9/93

MSD054

2386

H. Notes, Additional Information or Special Handling Instructions

Generating Process: Cleaning paint lines

I. Required Protective Equipment and Procedures

Please attach all materials safety data sheets, logistic sketches, analysis reports, handling precautions, additional hazardous support information, data and comments.

J. Shipping Information

DOT Hazardous Material ☒ Y ☐ N
Proper Shipping Name RQ Nute Paint Related Material DOT LD. No. UN 1263
Hazard Class Flammable Solid RQ 100 lbs
Anticipated Volume 3 Drums Gal Yds Lbs ☐ Bulk ☐ Rail
Container Size 55gal Container Type 17 ft
Per ☐ One time ☐ Week ☐ Month ☒ Year ☐ Other

Certification

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 willful omission of composition or properties exist, and that all known or suspected hazards have been disclosed, I certify that the materials tested are representative of all material described by this Materials Characterization Data Sheet.

1. X David E. French

Generator's Signature

2. David E. French

Name (Type or Print)

3. X 3-8-90

Date

4. Safety Director

Title

Recertification Requirements

This Materials Characterization Data Sheet must be recertified (i.e. updated) twelve months from the date signed and thereafter recertified on an annual basis. In addition, if the characteristics of the material change or if the generating process changes, a new MCDS must be submitted for approval prior to shipment.

DEQ052296

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U.S. V. MAP
PRODUCED BY MAP-9/93
REQUEST
NOTES: Hazardous materials placards
required for this material

MSD054

2387

DEQ52297

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

AICDS Document #

SALES (504) 465-3310

MSP CODE: EM/KEM-8802396

COPY MAR 28 1988

1) Generator Name KENTUCKY MANUFACTURING CO Bill To: EVERGREEN GROUP
Facility Address 2603 S. THIRD ST.
LOUISVILLE, KY 40208
City, State, Zip 40208
Technical Contact DAVID FRENCH
Title _____
Telephone NO. (502) 637-2551 EXT: _____
Facility EPA ID # KY11066378632

2) CHEMICAL COMPOSITION (No Trade Name)
(Totals must add up to 100%)
WASTE PAINT 70-75%
WASTE OIL 20-25%
DILUTED FUEL OIL 0-5%

3) METALS (EP Toxicity Test, mg/l)
Arsenic (As) <0.01 Silver (Ag) <0.01
Barium (Ba) <0.01 Copper (Cu) 0
Cadmium (Cd) <0.01 Nickel (Ni) 0
Chromium (Cr) <0.01 Zinc (Zn) 0
Lead (Pb) 0.46
Mercury (Hg) <0.001
Selenium (Se) <0.01

4) INORGANICS (mg/l or ppm)
Total CN 0 Iodine 0
Free CN 0 Asbestos 0
Sulfide 0
Chloride 0
Disulfide 0
Sulfite 0
Sulfate 0
Phosphate 0
Fluorine 0
Bromine 0
Chlorine 0

5) ORGANICS (mg/l or ppm)
Endrin 0 Organohalide 0
Methoxychlor 0 Mercaptans 0
Toxaphene 0
2,4-D 0
2,4,5-T 0
Phenolics 0
PCBs 0
Dioxin 0
TOC 0

6) PHYSICAL DESCRIPTION
Physical State ☐ Liquid ☒ Semi-solid ☐ Solid
Phases/Layering ☐ Uni-Layer ☒ Bilayer ☐ Multilayer
Viscosity ☒ High ☐ Medium ☐ Low
Type of Solids ☐ Organic ☐ Inorganic ☒ Mixed
Total Solids (wt. %) _____ Suspended Solids (wt. %) _____
BTU/lb 15,433 Ash Content _____ % Water (by weight) _____
Flash Point (°F) 32 °F Type CC
Specific Gravity _____
Boiling Point, (°C) _____ Freezing Point, (°C) _____
Vapor Pressure (mm Hg @ 24°C) _____
pH (Avg) 7 (Range) _____ to _____
Total Alkalinity/Acidity (%) _____
Odor PAINT/OIL
Color VARIES

7) HAZARDOUS PROPERTIES ☒ NONE
☐ Water Reactive ☐ Reactive ☐ Explosive
☐ Shock Sensitive ☐ Pyrophoric ☐ Polymizable
☐ Radioactive ☐ Pesticide Residuals ☐ Ignitable
☐ Corrosive ☐ Toxic Vapor ☐ Pathogen
☐ Biological ☐ Etiological
☐ Other _____

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES: NONE

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORTS, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

CERTIFICATION: 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 omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

CERTIFICATION SIGNATURE

[Signature]

MARINE SHALE PROCESSORS, INC.
MATERIALS CHARACTERIZATION DATA SHEET
UNION, MISSOURI
SALES (504) 465-3310
MSP CODE
8801 106
COPY
MAR 28 1988

1) Generator Name KENTUCKY MANUFACTURING (K) DILL TO: EVERGREEN GROUP

Facility Address 2603 S. THIRD ST.

LOUISVILLE KY

City, State, Zip 40208

Technical Contact DAVID FRENCH

Title _____

Telephone NO. (502) 637-2551 EXT: _____

Facility EPA ID # KYD 066-378632

2) CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

WASTE PAINT 70-75%

WASTE MEK 20-25%

DILUTED/FULL OIL 0-5%

3) METALS (EP Toxicity Test, mg/l)

Arsenic (As)	<u><0.01</u>	Silver (Ag)	<u><0.01</u>
Barium (Ba)	<u><0.01</u>	Copper (Cu)	<u>0</u>
Cadmium (Cd)	<u><0.01</u>	Nickel (Ni)	<u>0</u>
Chromium (Cr)	<u><0.01</u>	Zinc (Zn)	<u>0</u>
Lead (Pb)	<u>0.36</u>		
Mercury (Hg)	<u><0.001</u>		
Selenium (Se)	<u><0.01</u>		

4) INORGANICS (mg/l or ppm)

Total CN	<u>0</u>	Iodine	<u>0</u>
Free CN	<u>0</u>	Asbestos	<u>0</u>
Sulfide	<u>0</u>		
Chloride	<u>0</u>		
Bisulfite	<u>0</u>		
Sulfite	<u>0</u>		
Sulfate	<u>0</u>		
Phosphate	<u>0</u>		
Fluorine	<u>0</u>		
Bromine	<u>0</u>		
Chlorine	<u>0</u>		

5) ORGANICS (mg/l or ppm)

Endrin	<u>0</u>	Organohalide	<u>0</u>
Methoxychlor	<u>0</u>	Mercaptans	<u>0</u>
Toxaphene	<u>0</u>		
2,4-D	<u>0</u>		
2,4,5-T	<u>0</u>		
Phenolics	<u>0</u>		
PCBs	<u>0</u>		
Dioxin	<u>0</u>		
TOC	<u>0</u>		

6) PHYSICAL DESCRIPTION

Physical State ☐ Liquid ☒ Semi-solid ☒ Solid

Phases/Layering ☐ Uni-layer ☒ Bilayer ☐ Multilayer

Viscosity ☒ High ☐ Medium ☐ Low

Type of Solids ☐ Organic ☐ Inorganic ☒ Mixed

Total Solids (wt. %) _____ Suspended Solids (wt. %) _____

DTU/lb 15.433 Ash Content _____ % Water (by weight) _____

Flash Point (°F) 32°F Type CC

Specific Gravity _____

Boiling Point, (°C) _____ Freezing Point, (°C) _____

Vapor Pressure (mm Hg @ 24°C) _____

pH (Avg) 7 (Range) _____ to _____

Total Alkalinity/Acidity (%) _____

Odor PAINT/MEK

Color VARIES

7) HAZARDOUS PROPERTIES

☒ NONE

☐ Water Reactive	☐ Reactive	☐ Explosive
☐ Shock Sensitive	☐ Pyrophoric	☐ Polymizable
☐ Radioactive	☐ Pesticide Residuals	☐ Ignitable
☐ Corrosive	☐ Toxic Vapor	☐ Pathogen
☐ Biological	☐ Etiological	
☐ Other		

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES: NONE

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORTS, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS

052298

CERTIFICATION: 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 omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE 11-12-1988 GENERATOR'S SIGNATURE _____

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE
MANIFEST 014798

Please print or type. (Form designed for use on 8 1/2 inch typewriter.)

Form Approved OMB No. 2050-0039 Expires 8-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. M A D 0 0 1 1 1 5 7 6 5 9 0 0 0 8		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address James River Graphics 28 Gaylord Street, south hadley, Ma. 01075				4. Generator's Phone (413) 536-7800			
5. Transporter 1 Company Name Price Trucking Corporation				6. US EPA ID Number N Y D 0 4 6 7 6 5 5 7 4			
7. Transporter 2 Company Name				8. US EPA ID Number			
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380				10. US EPA ID Number L A D 9 8 1 0 5 7 7 0 6			
11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers No. Type		13. Total Quantity	
a. Waste Flammable Solids NOS UN1325 Profile #9001739				0 8 2 D 1 2 9 5 2 0 P		F003 R F005	
b. Waste Flammable Solids NOS UN1325 Profile #9001738				0 0 1 D 1 1 3 6 0 P		D001 R	
c. Waste Flammable Liquid NOS UN1993 Profile #8704058				0 0 5 D 1 1 2 7 5 G		F003 R	
d.						R	
14. Additional Descriptions for Materials Listed Above				RECYCLE / REUSE		K. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name Melissa A. LaBonte				Signature Melissa A. LaBonte		Month Day Year 10/6/2/5/9/0	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature Ed Hudson		Month Day Year 1/6/2/5/9/0	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Month Day Year	
19. Discrepancy Indication Space				DER052299			
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.							
Printed/Typed Name Carl Leonard				Signature Carl Leonard		Month Day Year 1/6/2/5/9/0	

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RECEIVED
DO NOT DESTROY
DO NOT REUSE

MSD054

2389 F



MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

MAR 30 1996 for MSP Use Only

9001739

Approval Code JRG/JRG/9001739

A. Generator Information

Generator Name JAMES RIVER GRAPHICS
Site Address 28 GAYLORD ST.
City SOUTH HADLEY State MA. Zip Code 01075
Generator Contact MELISSA LABONTE
Title SR. ENVIRONMENTAL TECHNICIAN
Telephone No. (413) 536-7800
Facility EPA I.D. No. MA00115765

B. Customer Information

Company Name JAMES RIVER GRAPHICS
Contact JODI LECCA
Address 28 GAYLORD ST.
SOUTH HADLEY, MA 01075
Telephone No. (413) 536-7800
For Customer Use

C. Regulatory Information

☒ RCRA Regulated ☒ Land Ban ☐ Non-Regulated EPA Waste Code(s) F003, F005

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%.)

	MIN	MAX
LACQUER SOLIDS (PIGMENTS, DYES, RESINS)		97-99%
SOLVENTS (ACETONE, TOLUENE, MEK, ETHANOL, XYLENE)		1-3%

Common Name of Waste: WASH STILL RESIDUE

E. General Characteristics

Color: VARIES
Odor: ☐ None ☒ Mild ☐ Strong
☐ Liquid ☐ Sludge ☒ Solid ☐ Powder
Phases: ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:

Radioactive?	☐ Y ☒ N	Polymerizable?	☐ Y ☒ N
Infectious?	☐ Y ☒ N	Pyrophoric?	☐ Y ☒ N
Water Reactive?	☐ Y ☒ N	Explosive?	☐ Y ☒ N

G. Physical/Chemical Properties

Ash (Est actual Wt %)	Water (Wt %)	Specific Gravity	Viscosity (for bulk liquids only)	Total Suspended Solids (Wt % for bulk liquids only)	pH
0	☐ <1 ☒ 5-10	☐ <0.8 ☐ 1.2-1.4	Est actual in centipoise	☐ 5-20	☐ 2-6 ☐ 6-10
BTUs per lb (Est actual value)	☐ 1-5 ☒ >10	☐ 1.0-1.2 ☐ >1.7	cp	☐ >20	☐ 10-12.5
4177	Est actual	Est actual		Est actual	Est actual 5.1

Flash Point (closed cup)

☐ <100°F ☐ >200°F
☐ 100-140°F ☒ >142°F
☐ 140-200°F actual

Sulfur (Wt %)

☐ <5
If >5 Est actual value 0

Halogens (Wt %)

☐ Iodine ☐ <1 ☐ 1-5 ☐ 5-10 ☐ >10 Est actual Wt %
☐ Bromine ☐ ☐ ☐ ☐
☐ Chlorine ☐ ☐ ☐ ☐
☐ Fluorine ☐ actual Wt %

Metals: EP Toxicity Test (mg/l)

Arsenic (As) <0.005
Barium (Ba) <5.96
Cadmium (Cd) <0.08
Chromium (Cr) <0.45
Lead (Pb) <0.37
Mercury (Hg) <0.004

Selenium (Se) <0.006

Silver (Ag) 0
Copper (Cu) 0
Nickel (Ni) 0
Zinc (Zn) 0

Organics (ppm)

Endrin 0
Lindane 0
Methoxychlor 0
Toxaphene 0
2,4-D 0
2,4,5-TP (Silvex) 0

If material contains the following compounds, indicate actual ppm:

PCB 0
Cyanides 0
Sulfides 0
Dioxin 0

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Litho. Hqs. 4/11/95
Market, Reps.

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DE0052300

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DO NOT WRITE IN THESE SPACES
UNITED STATES OF AMERICA
DEPARTMENT OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D.C. 20535

MSD054

2391

H. Notes, Additional Information or Special Handling Instructions

Generating Process: SOLVENT RECOVERY SINGLE STAGE
DISTILLATION UNIT

I. Required Protective Equipment and Procedures

Please attach all materials safety data sheets, logistic sketches, analysis reports, handling precautions, additional hazardous support information, data and comments.

GLOVES, SAFETY GLASSES

J. Shipping Information

DOT Hazardous Material ☒ Y ☐ N

Proper Shipping Name

WASTE FLAMMABLE SOLIDS NOS

DOT LD. No.

(circle one)

☒ UN ☐ NA

1325

Hazard Class

FLAMMABLE SOLID

RQ

Anticipated Volume

50-150

☒ Drums

Gal

Yds

Lbs

☐ Bulk

☐ Rail

Container Size

55 GALLON

Container Type

STEEL DRUMS

Per

☐ One time

☐ Week

☒ Month

☐ Year

☐ Other

K. Certification

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 willful omission of composition or properties exist, and that all known or suspected hazards have been disclosed, I certify that the materials tested are representative of all material described by this Materials Characterization Data Sheet.

1. Melissa A. Labonte

2. MELISSA A. LABONTE

Generator's Signature

Name (Type or Print)

3. 3/29/90

4. SENIOR ENVIRONMENTAL TECHNICIAN

Date

Title

L. Recertification Requirements

This Materials Characterization Data Sheet must be recertified (i.e. updated) twelve months from the date signed and thereafter recertified on an annual basis. In addition, if the characteristics of the material change or if the generating process changes, a new MCDS must be submitted for approval prior to shipment.

DEQ052301



MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

MAR 30 1990

For MSP Use Only

Approval Code

JRG/JRG/9001738

9001738

A. Generator Information

Generator Name JAMES RIVER GRAPHICS
Site Address 28 GAYLORD ST.
City SOUTH HADLEY State MA. Zip Code 01075
Generator Contact MELISSA LABONTE
Title SR. ENVIRONMENTAL TECHNICIAN
Telephone No. (413) 536-7800
Facility EPA ID No. MAD 00115765

B. Customer Information

Company Name JAMES RIVER GRAPHICS
Contact JONI LECCA
Address 28 GAYLORD ST.
SOUTH HADLEY, MA. 01075
Telephone No. (413) 536-7800
For Customer Use

C. Regulatory Information

☐ RCRA Regulated ☒ Land Ban ☐ Non-Regulated EPA Waste Code(s) _____

D. Chemical Composition

DO NOT TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%.

	MIN	MAX
<u>LINERS (PLASTIC)</u>		<u>95%</u>
<u>METHYL CELLOSOLVE</u>		<u>1-3%</u>
<u>RESIN</u>		<u>1-5%</u>

Common Name of Waste: WASTE LINERS

E. General Characteristics

Color: BROWNISH
Odor: ☐ None ☒ Mild ☐ Strong
☐ Liquid ☐ Sludge ☒ Solid ☐ Powder
Phases: ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:
Radioactive? Y ☒ N ☐ Polymerizable? Y ☒ N ☐
Infectious? Y ☒ N ☐ Pyrophoric? Y ☒ N ☐
Water Reactive? Y ☒ N ☐ Explosive? Y ☒ N ☐

G. Physical/Chemical Properties

Ash (list actual Wt %) 0 Water (Wt %) ☐ <1 ☐ 5-10
BTUs per lb (list actual value) 5-10,000 list actual 0 Specific Gravity ☐ <0.8 ☐ 1.2-1.4
☒ 0.8-1.0 ☐ 1.4-1.7
☐ 1.0-1.2 ☐ >1.7 list actual EST.
Viscosity (for bulk liquids only) list actual in centipoise _____ cp
Total Suspended Solids (Wt % for bulk liquids only) ☐ 5-20
☐ >20 list actual _____
pH ☐ 2-6 ☐ 6-10
☐ 10-12.5
if <2 or >12.5 list actual NEUTRAL (N)

Flash Point (closed cup)

☐ <100°F ☐ >200°F
☐ 100°-140°F ☒ 140-200°F actual 60-140 °F

Sulfur (Wt %)

☐ <5
if >5 list actual value 0

Halogens (Wt %)

<1 1-5 5-10 if >10 list actual Wt %
☐ Iodine ☐ ☐ ☐
☐ Bromine ☐ ☐ ☐
☐ Chlorine ☐ ☐ ☐
☐ Fluorine ☐ actual Wt %

Metals: EP Toxicity Test (MG/L)

Arsenic (As) 0
Barium (Ba) 0
Cadmium (Cd) 0
Chromium (Cr) 0
Lead (Pb) 0
Mercury (Hg) 0

Selenium (Se) 0
Silver (Ag) 0
Copper (Cu) 0
Nickel (Ni) 0
Zinc (Zn) 0

Organics (ppm)

Endrin 0
Lindane 0
Methoxychlor 0
Toxaphene 0
2,4-D 0
2,4,5-TP (Silvex) 0

If material contains the following

compounds, indicate actual ppm:

PCB 0
Cyanides 0
Sulfides 0
Dioxin 0

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PROJECT 11-22
LIFE-11-22-93-11-22-93
MSP-11-22-93-11-22-93

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MATERIALS CHARACTERIZATION DATA SHEET

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2393

H. Notes, Additional Information or Special Handling Instructions

Generating Process: DISPOSAL OF LINED DRUMS PREVIOUSLY CONTAINING METHYL CELLOSOLVE

I. Required Protective Equipment and Procedures

Please attach all materials safety data sheets, logistic sketches, analysis reports, handling precautions, additional hazardous support information, data and comments.

GLOVES, SAFETY GLASSES

J. Shipping Information

DOT Hazardous Material ☒ Y ☐ N

Proper Shipping Name

WASTE FLAMMABLE SOLIDS NOS

DOT LD. No.

(circle one)

☒ D/NA

1325

Hazard Class

FLAMMABLE SOLID

RD

Anticipated Volume

1-10 ☒ Drums

Gal

Yds

Lbs

☐ Bulk

☐ Rail

Container Size

55 GALLON

Container Type

STEEL DRUM

Per

☐ One time

☐ Week

☒ Month

☐ Year

☐ Other

Certification

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 willful omission of composition or properties exist, and that all known or suspected hazards have been disclosed, I certify that the materials tested are representative of all material described by this Materials Characterization Data Sheet.

1.

Melissa A. Labonte

Generator's Signature

2.

MELISSA A. LABONTE

Name (Type or Print)

3.

3/29/90

Date

4.

SR. ENVIRONMENTAL TECHNICIAN

Title

Recertification Requirements

This Materials Characterization Data Sheet must be recertified (i.e. updated) twelve months from the date signed and thereafter recertified on an annual basis. In addition, if the characteristics of the material change or if the generating process changes, a new MCDS must be submitted for approval prior to shipment.

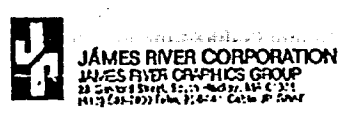
DERO52303

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REQUEST BY
WILLIAM H. HARRIS, JR.
MEMPHIS, TENN.

MSD054

2394



OK
6:55 PM 3-30-90
Hand copy due 4-2-90

March 30, 1990

Ms. Estelle Quijano
Marine Shale Processors
110 Jones Drive West, Suite 120
Saint Rose, La. 70087

Ms. Quijano:

This letter is in response to our telephone conversation this afternoon concerning our waste stream profile #8705194.

On the characterization sheet I sent you, under part C, RCRA Regulated should be checked off, not Land ban. Also, the EPA waste code for this material is DQ01.

If you need any further information, please call me.

Sorry for the inconvenience.

Sincerely,

Melissa A. LaBonte

Melissa A. LaBonte
Senior Environmental Technician

MAR-30-90 14:15 10:00AM CENTER

TEL NO: 415-556-4414

#246 P01

DE0052304

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DEQ052305

RECERTIFICATION OF MATERIAL CHARACTERIZATION DATA SHEET		MSP Approval Code
Date printed: 2/28/90	Rep.ID: ERQ	JRC / JRC /8704058/ /
Instructions: A copy of the M.C.D.S. to be recertified is attached to this Recertification Form. We ask that you complete the remainder of this form and have it signed by an authorized technical contact. Please return a copy of the M.C.D.S. being recertified with this form. Return this form with any attachments to: MARINE SHALE PROCESSORS, INC. 110 James Dr. West, Suite 120 St. Rose, LA 70087 Attention: Technical Review		
A. GENERAL INFORMATION		
Generator Name: <u>JAMES RIVER GRAPHICS</u>	Telephone: <u>(412) 536-7800 x.2298</u>	
Facility Address: <u>28 CAYLORD STREET</u>	USEPA ID: <u>NA9001115765</u>	
<u>SOUTH HADLEY, MA 01075-0000</u>		
Name of Waste: <u>PAINT SLUDGE</u>	Generating Process: <u>PAPER COATING</u>	
Technical Contact: <u>MR. JOE WICKSTEDT MELISSA LABONTE</u>	Title: <u>SR. ENVIRONMENTAL TECHNICIAN</u>	
B. CHANGES OR ADDITIONS SINCE LAST M.C.D.S. PREPARATION		
1. Have you obtained any laboratory analysis of this waste? (If yes, attach results)..... ☐ yes ☒ no		
2. Have you changed the raw materials used in the waste generating process?..... ☐ yes ☒ no		
3. Have you changed the waste generating process itself?..... ☐ yes ☒ no		
4. Are you aware of any facts or circumstances which have, or reasonably could have, altered the physical or hazardous characteristics, or chemical composition of the waste?..... ☐ yes ☒ no		
5. Are you aware of any human health effects of exposure to the waste not previously described?..... ☐ yes ☒ no		
6. If you answered "yes" to questions, 2, 3, 4, or 5 please provide details below:		
IF THERE HAVE BEEN ANY SUBSTANTIAL CHANGES, A NEW M.C.D.S. MUST BE SUBMITTED.		
SHIPPING INFORMATION		
Method of Shipment: ☐ Bulk Liquid ☐ Bulk Solid ☒ Drum (type/size) <u>55 GALLON STEEL</u>		
Anticipated Volume: _____ Gals. _____ Cubic Yds. Other <u>0-25 DRUMS</u>		
Per: ☐ One Time ☐ Week ☒ Month ☐ Quarter ☐ Year		
RECERTIFICATION		
I am an employee of the generator authorized to sign this Recertification. The information provided in the recertification of M.C.D.S. attached hereto, and the information supplied above, are complete, true and correct.		
Name: <u>MELISSA A. LABONTE</u>		Signature: <u>Melissa A. Labonte</u>
Title: <u>SR. ENVIRONMENTAL TECHNICIAN</u>		Date: <u>3/26/90</u>



MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

For MSP Use Only

Approval Code _____

A. Generator Information

Generator Name JAMES RIVER GRAPHICS
Site Address 28 GAYLORD ST.
City SOUTH HADLEY State MA. Zip Code 01075
Generator Contact MELISSA LABONTE
Title SR. ENVIRONMENTAL TECHNICIAN
Telephone No. (413) 536-7800 X 2298
Facility EPA ID. No. MA000115765

B. Customer Information

Company Name JAMES RIVER GRAPHICS
Contact JODI LECCA
Address 28 GAYLORD ST.
SOUTH HADLEY, MA. 01075
Telephone No. (413) 536-7800
For Customer Use _____

C. Regulatory Information

☐ RCRA Regulated ☒ Land Ban ☐ Non-Regulated EPA Waste Code(s) F003

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%.)

	MIN	MAX
<u>ACETONE</u>		<u>10%</u>
<u>TOLUENE</u>		<u>10%</u>
<u>METHYL ETHYL KETONE</u>		<u>10%</u>
<u>ETHYL ACETATE</u>		<u>10%</u>
<u>PAINT RESINS</u>		<u>30%</u>
<u>DYE PIGMENTS</u>		<u>30%</u>

Common Name of Waste: PAINT SLUDGE

E. General Characteristics

Color: VARIES
Odor: ☐ None ☐ Mild ☒ Strong
☒ Liquid ☒ Sludge ☐ Solid ☐ Powder
Phases: ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:

Radioactive?	Y	(N)	Polymerizable?	Y	(N)
Infectious?	Y	(N)	Pyrophoric?	Y	(N)
Water Reactive?	Y	(N)	Explosive?	Y	(N)

G. Physical/Chemical Properties

Ash (list actual Wt %) 3
BTUs per lb (list actual value) 10,000
Water (Wt %) ☐ <1 ☐ 5-10 ☐ 1-5 if > 10
Specific Gravity ☐ <0.8 ☐ 1.2-1.4 ☒ 0.8-1.0 ☒ 1.4-1.7 ☐ 1.0-1.2 ☐ >1.7
list actual NONE list actual 1.5
Viscosity (for bulk liquids only) list actual in centipoise HIGH
Total Suspended Solids (Wt % for bulk liquids only) ☐ 5-20 ☐ >20
list actual 60%
pH ☐ 2-6 ☒ 6-10 ☐ 10-12.5 ☐ <2 or >12.5
list actual 6-8

Flash Point (closed cup)

☒ <100°F ☐ >200°F
☐ 100°-140°F ☒ 140°-200°F
actual 64 °F

Sulfur (Wt %)

☐ <5
if > 5 list actual value 0

Halogens (Wt %)

☐ Iodine ☐ <1 ☐ 1-5 ☐ 5-10 ☐ >10 list actual Wt %
☐ Bromine ☐ ☐ ☐ ☐
☐ Chlorine ☐ ☐ ☐ ☐
☐ Fluorine ☐ actual Wt %

Metals: EP Toxicity Test (PPM/L)

Arsenic (As) 0
Barium (Ba) 0
Cadmium (Cd) 0
Chromium (Cr) 0
Lead (Pb) 0
Mercury (Hg) 0

Selenium (Se) 0
Silver (Ag) 0
Copper (Cu) 0
Nickel (Ni) 0
Zinc (Zn) 0

Organics (ppm)

Endrin 0
Lindane 0
Methoxychlor 0
Toxaphene 0
2,4-D 0
2,4,5-TP (Silvex) 0

If material contains the following compounds, indicate actual ppm:

PCB 0
Cyanides 0
Sulfides 0
Dioxin 0

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NOV 15 1993
U.S. DEPARTMENT OF JUSTICE
FEDERAL BUREAU OF INVESTIGATION
WASHINGTON, D.C. 20535

MSD054

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DE052306

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DEROS2307

MATERIALS CHARACTERIZATION DATA SHEET

ACIDS Document #

SALES (504) 465-3310

874058 NOV 30 1987 (504) 631-3626

MSP CODE: JRC-82/058

JRC/JRC/8704058

Generator Name: James River Graphics
Facility Address: 78 Gaylord Street

Bill To: James River Graphics

Company Contact: Chris Flynn

Container Size: 55 gal. dms

EPA Waste No. F003

Generating Process: Paper Coating

Common Name of Waste: Paint sludge

Rate of Generation: 4 dms PER week

Volume in Storage: 30 IN 55 gal. dms

Waste DOT Hazardous: XXXYS 11NO

Proper DOT Shipping Name: Waste flammable liquid NOS

Hazard Class: Flam ID No. UN1325

Transportation Equipment: Box Trailer

Handling: flammable

City, State, Zip: South Hadley, Ma. 01075

Technical Contact: Chris Flynn

Title: Environmental Engineering

Telephone NO.: 413-536-2800 EXT: 2298

Facility EPA ID #: HAD 001 115 765

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Acetone	10	%
Toluene	10	%
Methyl Ethyl Ketone	10	%
Ethylacetate	10	%
Paint resins	30	%
Dye pigments	30	%

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	0	Silver (Ag)	0
Barium (Ba)	0	Copper (Cu)	0
Calcium (Ca)	0	Nickel (Ni)	0
Chromium (Cr)	0	Zinc (Zn)	0
Lead (Pb)	0		
Mercury (Hg)	0		
Selenium (Se)	0		

INORGANICS (mg/l or ppm)

Total CN	0	Isoline	0
Free CN	0	Asbestos	0
Sulfate	0		
Chloride	0		
Bisulfite	0		
Sulfite	0		
Sulfate	0		
Phosphate	0		
Bromine	0		
Fluorine	0		
Chlorine	0		

ORGANICS (mg/l or ppm)

Frein	0	Organohalide	0
Anthracene-like	0	Mercaptans	0
Triphenyl	0		
2,4,6	0		
2,4,6,1	0		
Phenol	0		
PCBs	0		
Phenol	0		
HC	0		

PHYSICAL DESCRIPTION

Physical State	k	l	Liquid	l	Semi-solid	l	Solid
Phases/Layering	k	l	Uni-Layer	l	Bilayer	l	Multilayer
Viscosity	k	l	High	l	Medium	l	Low
Type of Solids	l	l	Organic	l	Inorganic	l	Mixed
Total Solids (wt. %)					Suspended Solids (wt. %)		60 %
BTU/lb. 10,000% Ash Content					% Water (by weight)		
Flash Point (°F)			66°		Type		cc
Specific Gravity			1.5				
Boiling Point (°C)			76°		Freezing Point (°C)		
Vapor Pressure (mm Hg @ 24°C)							
pH (Avg)					(Range)		6 to 8
Total Alkalinity/Acidity (%)							
Color			Strong solvent				
Color			Varies				

HAZARDOUS PROPERTIES

l	l	Water Reactive	l	l	Reactive	l	l	Explosive
l	l	Shock Sensitive	l	l	Pyrophoric	l	l	Polynuclear
l	l	Radioactive	l	l	Pesticide Residuals	l	l	Ignitable
l	l	Corrosive	l	l	Toxic Vapor	l	l	Pathogen
l	l	Biological	l	l	Biological			
l	l	Other						

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORTS, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

CERTIFICATION: 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 omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE: 11/24/87

GENERATOR'S SIGNATURE:

Christy Flynn

MSD FORM 001, 10-87

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US V. MSP
PRODUCED BY MSP 9/93
RECEIVED
UNIVERSITY MICROFILMS
SERIALS ACQUISITION
300 N. ZEEB RD
ANN ARBOR MI 48106-1500

H. Notes, Additional Information or Special Handling Instructions

Generating Process: PAPER COATING

I. Required Protective Equipment and Procedures

Please attach all materials safety data sheets, logistic sketches, analysis reports, handling precautions, additional hazardous support information, data and comments.

GLOVES, SAFETY GLASSES

J. Shipping Information

DOT Hazardous Material ☒ Y ☐ N
Proper Shipping Name WASTE FLAMMABLE LIQUID NOS DOT LD. No. 1993
Hazard Class FLAMMABLE LIQUID ☐ RO
Anticipated Volume 0-25 ☒ Drums ☐ Gal ☐ Yds ☐ Lbs ☐ Bulk ☐ Rail
Container Size 55 GALLON Container Type STEEL DRUMS
Per ☐ One time ☐ Week ☒ Month ☐ Year ☐ Other

Certification

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 willful omission of composition or properties exist, and that all known or suspected hazards have been disclosed, I certify that the materials tested are representative of all material described by this Materials Characterization Data Sheet.

1. Melissa A. Labonte

Generator's Signature

2. MELISSA A. LABONTE

Name (Type or Print)

3. 3/26/90

Date

4. SR. ENVIRONMENTAL TECHNICIAN

Title

Recertification Requirements

This Materials Characterization Data Sheet must be recertified (i.e. updated) twelve months from the date signed and thereafter recertified on an annual basis. In addition, if the characteristics of the material change or if the generating process changes, a new MCDS must be submitted for approval prior to shipment.

MSD054

2398

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U.S. V. MSP PRODUCED BY MSP 9/93

MSD054

2399

MATERIALS CHARACTERIZATION DATA SHEET

MCDS Document #

SALES (504) 465-3310

MSP CODE: JRG-874058

874058 NOV 30 1987

Generator Name James River Graphics
Facility Address 28 Gaylord Street

City, State, Zip South Hadley, Ma. 01075
Technical Contact Chris Flynn
Title Environmental Engineering
Telephone NO. (413) 536-7800 EXT: 2298
Facility EPA ID # MA001115765

Bill To: James River Graphics
Company Contact: Chris Flynn
Container Size: 55 gal. dms
EPA Waste No. P003
Generating Process Paper Coating
Common Name of Waste Paint sludge
Rate of Generation 4 dm PER week
Volume in Storage 30 IN 55 gal. dms

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Acetone	10	%
Toluene	10	%
Methyl Ethyl Ketone	10	%
Ethylacetate	10	%
Paint resins	30	%
Dye pigments	30	%

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	0	Silver (Ag)	0
Barium (Ba)	0	Copper (Cu)	0
Cadmium (Cd)	0	Nickel (Ni)	0
Chromium (Cr)	0	Zinc (Zn)	0
Lead (Pb)	0		
Mercury (Hg)	0		
Selenium (Se)	0		

INORGANICS (mg/l or ppm)

Total CN	0	Iodine	0
Free CN	0	Asbestos	0
Sulfide	0		
Chloride	0		
Bisulfite	0		
Sulfite	0		
Sulfate	0		
Phosphate	0		
Fluoride	0		
Bromine	0		
Chlorine	0		

ORGANICS (mg/l or ppm)

Endrin	0	Organohalide	0
Methoxy herb	0	Mercaptans	0
Imazophos	0		
2,4-D	0		
2,4,5-T	0		
Phenol(s)	0		
PCBs	0		
Dioxin	0		
TCX	0		

Is Waste DOT Hazardous ☒ YES ☐ NO
Proper DOT Shipping Name Waste flammable liquid NOS
Hazard Class flam ID No. UN125
Transportation Equipment Box Trailer
Packaging flammable

PHYSICAL DESCRIPTION

Physical State ☒ Liquid ☐ Semi-solid ☐ Solid
Phases/Layering ☒ Uni-Layer ☐ Bilayer ☐ Multilayer
Viscosity ☒ High ☐ Medium ☐ Low
Type of Solids ☐ Organic ☐ Inorganic ☐ Mixed
Total Solids (wt. %) 10.000% Suspended Solids (wt. %) 60%
BTU/lb 10.000% Ash Content 3% Water (by weight) cc
Flash Point (°F) 66° Type cc
Specific Gravity 1.5
Boiling Point (°C) 76° Freezing Point (°C)
Vapor Pressure (mm Hg @ 24°C)
pH (Avg) (Range) 6 to 8
Total Alkalinity/Acidity (%)
Odor Strong solvent
Color Varies

HAZARDOUS PROPERTIES

☐ Water Reactive ☐ Reactive ☐ Explosive
☐ Shock Sensitive ☐ Pyrophoric ☐ Polymizable
☐ Radioactive ☐ Pesticide Residuals ☐ Ignitable
☐ Corrosive ☐ Toxic Vapor ☐ Pathogen
☐ Biological ☐ Ecological
☐ Other

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORTS, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

CERTIFICATION: 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 omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE 11/24/87 GENERATOR'S SIGNATURE: Chris Flynn

ANALYST'S SIGNATURE

MATERIALS CHARACTERIZATION DATA SHEET

SALES (504) 465-3310

MSP CODE: JRG-874058

874058 NOV 30 PLANT (504) 631-3626

Generator Name James River Graphics
Facility Address 28 Gaylord Street

City, State, Zip South Hadley, Ma. 01075
Technical Contact Chris Flynn
Title Environmental Engineering
Telephone NO. (413) 536-7800 EXT: 229R
Facility EPA ID # MAD 001 115 765

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Acetone	10	%
Toluene	10	%
Methyl Ethyl Ketone	10	%
Ethylacetate	10	%
Paint resins	30	%
Dye pigments	30	%

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	<u>0</u>	Silver (Ag)	<u>0</u>
Barium (Ba)	<u>0</u>	Copper (Cu)	<u>0</u>
Cadmium (Cd)	<u>0</u>	Nickel (Ni)	<u>0</u>
Chromium (Cr)	<u>0</u>	Zinc (Zn)	<u>0</u>
Lead (Pb)	<u>0</u>		
Mercury (Hg)	<u>0</u>		
Selenium (Se)	<u>0</u>		

INORGANICS (mg/l or ppm)

Total CN	0	Iodine	0
Free CN	0	Asbestos	0
Sulfide	0		
Chloride	0		
Bisulfite	0		
Sulfite	0		
Sulfate	0		
Phosphate	0		
Flourine	0		
Bromine	0		
Chlorine	0		

ORGANICS (mg/l or ppm)

Endrin	0	Organohalide	0
Methoxychlor	0	Mercaptans	0
Toxaphene	0		
2,4-D	0		
2,4,5-T	0		
Phenolics	0		
PCBs	0		
Dioxin	0		
TOC	0		

CERTIFICATION: 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 omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE 11/29/87

GENERATOR'S SIGNATURE:

James River Graphics

Bill To: _____

Company Contact: Chris Flynn

Container Size: 55 gal. dms

EPA Waste No. F003

Generating Process: Paper Coating

Common Name of Waste: Paint sludge

Rate of Generation 4 dm PER week
(Pound) (Unit) (Time Interval)

Volume in Storage 30 IN 55 gal. dms
(Pound) (Unit) (Container Size and Type)

Is Waste DOT Hazardous XXXXXX 11NO
Proper DOT Shipping Name Waste flammable liquid NOS
Hazard Class flam ID No. UN1325 1993 see other label
Transportation Equipment Box Trailer
 placarding flammable

PHYSICAL DESCRIPTION

Physical State k | Liquid | | Semi-solid | | Solid
Phases/Layering k | Uni-Layer | | Bilayer | | Multilayer
Viscosity k | High | | Medium | | Low
Type of Solids | | Organic | | Inorganic | | Mixed
Total Solids (wt. %) _____ Suspended Solids (wt. %) 60 %
BTU/lb 10,000 % Ash Content 3 % Water (by weight) _____
Flash Point (°F) 64° Type cc
Specific Gravity 1.5
Boiling Point, (°C) 76° Freezing Point, (°C) _____
Vapor Pressure (mm Hg @ 24°C) _____
pH (Avg) _____ (Range) 6 to 8
Total Alkalinity/Acidity (%) _____
Odor Strong solvent
Color Varies

HAZARDOUS PROPERTIES

☐ Water Reactive	☐ Reactive	☐ Explosive
☐ Shock Sensitive	☐ Pyrophoric	☐ Polymizable
☐ Radioactive	☐ Pesticide Residuals	☒ Ignitable
☐ Corrosive	☐ Toxic Vapor	☐ Pathogen
☐ Biological	☐ Etiological	
☐ Other _____		

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES: _____

**PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS,
LOGISTIC SKETCHES, ANALYSIS REPORTS, HANDLING
PRECAUTIONS, ADDITIONAL HAZARD SUPPORT
INFORMATION, DATA & COMMENTS.**

is complete and accurate to the best of my knowledge and ability to
exists, and that all known or suspected hazards have been disclosed.
the contract.

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BOX 352 - REQUEST 0-72
LAWYER - HERBERTS MICHEL
MONTREAL, PQ

US V. MSP: Reasonable
PRODUCED BY MSP 9/93

MSDO 54

0042

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JAMES RIVER CORPORATION
JAMES RIVER GRAPHICS GROUP
28 Gaylord Street, South Hadley, MA 01075, (417) 536-7800

Telex 95-5441
Cable JRGRAF

December 10, 1987

Mr. Tom Dickerson
Marine Shale Processors, Inc.
110 James Drive West, Suite 120
Saint Rose, LA. 70087

Dear Mr. Dickerson:

This letter is in regard to a Materials Characterization Sheet
(See MSP Document Number 874058) I sent you on a paint sludge
waste stream that had an incorrect UN number. Indeed, this was
an oversight and should have been UN1993 (flammable liquid).

If you need anything further, other than this cover letter,
please contact me at any time.

Sincerely,

Chris Flynn
Chris Flynn

CF/EU

DEQ052311

U.S. V. MSP
PRODUCED BY MSP 9/93
REQUEST
NOTED
LATER
MATERIALS
MATERIALS

MSD054

24011

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FBI
RECEIVED
FBI

MSD054

2402 F

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

Recycle Reuse

Form Approved OMB No. 2050-0039, Expires 9-30-91

Please print or type. (Form designed for use on efite (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. TXD074196338E0611		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Eltex Chemical Co. 4050 Homestead Road Houston, Texas 77028				A. State Manifest Document Number LA 1194617			
4. Generator's Phone (713) 674-2406				B. State Generator's ID 30271			
5. Transporter 1 Company Name Eltex Chemical Co.				C. State Transporter's ID 39028			
6. Transporter 1 US EPA ID Number TXD074196338E0611				D. Transporter's Phone (713) 674-2406			
7. Transporter 2 Company Name				E. State Transporter's ID			
8. Transporter 2 US EPA ID Number				F. Transporter's Phone			
9. Designated Facility Name and Site Address Marine Sine Processors Highway 90 East Avella, Louisiana 70340				G. State Facility's ID			
10. US EPA ID Number TXD074196338E0611				H. Facility's Phone (504) 631-3161			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers No. Type		13. Total Quantity	
a. Waste Flammable Liquid d.o.s., Un 1993				0750 15		14. Unit W/Vol G	
b.						15. Waste No. D001, F003 and F005 910680	
c.							
d.							
J. Additional Descriptions for Materials Listed Above 11a. Paint Related Material, SOME-ETX 8905254				K. Handling Codes for Wastes Listed Above DEQ052312			
15. Special Handling Instructions and Additional Information In case of an emergency contact Eltex at (713) 432-9059 or (713) 674-2406. If spilled in Louisiana contact DPE at 1-800-925-6595. Remember to always wear protective clothing when handling this material.							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this manifest are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment. OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name P. Anne Indry				Signature P. Anne Indry		Month Day Year 10 16 19 93	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Russell L. Phillips				Signature Russell L. Phillips		Month Day Year 10 16 19 93	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space 11A) 910680 is a Texas Regulatory number							
20. Facility Owner or Operator: Certification of receipt of hazardous material's covered by this manifest except as noted in Item 19. Printed/Typed Name Gail Leonard							
Signature Gail Leonard				Month Day Year 06 29 93			

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MSD054
PRODUCED BY MRP/9/93
REQUEST 1/1/93
UNIDENTIFIED MATERIALS
Hazardous Waste

MSD054

2403 L

MATERIALS CHARACTERIZATION DATA SHEET

P.O. BOX 1698 • KENNER, LA 70063
SALES (504) 465-3310

MCDS Document #
8905254

SOTE/ETX/8905254
MSP CODE: Sotech

Generator Name E/tey Chemical
Facility Address P.O. Box 4214
City, State, Zip Houston, Texas, 77210
Technical Contact Dave Denison
Title President
Telephone NO. 713 795 5607 EXT:
Facility EPA ID # TXD074196338

Bill To: Sotech
Address: P.O. BOX 16548
City, State, Zip: JACKSON, MS 32936
Telephone #: 601-939-6353
Company Contact: MARTIN MARRON
Container Size: 55 gal DM
EPA Waste No. D001 F007 F005
Generating Process Plant Wash Out
Common Name of Waste Paint Sludge
Rate of Generation 160 SS gal PER Month
Volume in Storage 200 ea IN 55 gal DM
Is Waste DOT Hazardous 14TES 11NO
Proper DOT Shipping Name Waste Flammable
Hazard Class Flam ID No. UN 1997
Transportation Equipment Van
Placarding Flam

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)
Epoxy Latex Alkyls 30.50 %
MEK %
Xylene 40.60 %
Toluene %
Alkyl 2.3 %
H₂O %

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	<u>SI</u>	Silver (Ag)	<u>NS</u>
Barium (Ba)	<u>SI</u>	Copper (Cu)	<u>NS</u>
Cadmium (Cd)	<u>SI</u>	Nickel (Ni)	<u>NS</u>
Chromium (Cr)	<u>SI</u>	Zinc (Zn)	<u>NS</u>
Lead (Pb)	<u>NS</u>	<u>CaCO₃</u>	<u>3.7</u>
Mercury (Hg)	<u>NS</u>	<u>LiO₂</u>	<u>5.9</u>
Selenium (Se)	<u>NS</u>		

INORGANICS (mg/l or ppm)

Total CN	<u>0</u>	Iodine	<u>0</u>
Free CN	<u>0</u>	Asbestos	<u>0</u>
Sulfide	<u>0</u>		
Chloride	<u><10.15</u>		
Bisulfite	<u>0</u>		
Sulfite	<u>0</u>		
Sulfate	<u>0</u>		
Phosphate	<u>0</u>		
Fluorine	<u>0</u>		
Bromine	<u>0</u>		
Chlorine	<u>0</u>		

ORGANICS (mg/l or ppm)

Endrin	<u>0</u>	Organohalide	<u>0</u>
Methoxychlor	<u>0</u>	Mercaptans	<u>0</u>
Toxaphene	<u>0</u>		
2,4-D	<u>0</u>		
2,4,5-T	<u>0</u>		
Phenolics	<u>0</u>		
PCBs	<u>0</u>		
Dioxin	<u>0</u>		
TCX	<u>0</u>		

PHYSICAL DESCRIPTION

Physical State 11 Liquid 14 Semi-solid 11 Solid
Phases/Layering 11 Uni-Layer 11 Bilayer 14 Multilayer
Viscosity 14 High 11 Medium 11 Low
Type of Solids 11 Organic 11 Inorganic 14 Mixed
Total Solids (wt. %) 50.60 Suspended Solids (wt. %) UNKNOWN
BTU/lb 218000 Ash Content 8 % Water (by weight) 2.3
Flash Point (°F) <120 Type CS
Specific Gravity 1.12
Boiling Point, °C UNKNOWN Freezing Point, °C UNKNOWN
Vapor Pressure (mm Hg @ 24°C) UNKNOWN
pH (Avg) 5.7 (Range) 5 to 8
Total Alkalinity/Acidity (%) UNKNOWN
Odor Typical Solvent
Color Varies

HAZARDOUS PROPERTIES

☐ Water Reactive	☐ Reactive	☐ NONE
☐ Shock Sensitive	☐ Pyrophoric	☐ Explosive
☐ Radioactive	☐ Pesticide Residuals	☐ Ignitable
☐ Corrosive	☐ Toxic Vapor	☐ Pathogen
☐ Biological	☐ Etiological	
☐ Other		

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

Usual protective equipment while handling paint.

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORTS, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

CERTIFICATION: 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 omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE 10.7.89 GENERATOR'S SIGNATURE: David Denison

USE THESE DIRECTIONS FOR REUSE

DEQ052313

Use print or type. (Form designed for use on elite (12-pitch) typewriter.)

MANIFEST No 015090

Form Approved. OMB No. 2050-0038. Expires 9-30-9

EPA Form 3700-22 (Rev. 9-78)

WHITE - DEO GREEN - General YELLOW - TSDRE BLUE - Transoxyl 2. PINK - Transoxyl 1 GOLD - General

THE UNIVERSITY OF CHICAGO

MSD054

4042

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST NO. 015082

Form Approved OMB No. 2050-0038 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. LA D 0 7 9 4 6 4 0 9 5		Manifest Document No. 1-1-12		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address GSX RECOVERY SYSTEMS INC. HWY 1112 CROWLEY LA 70526		4. Generator's Phone (318) 783-2624		5. State Generator's ID		6. State Generator's ID		7. State Generator's ID	
5. Transporter 1 Company Name GSX RECOVERY SYSTEMS INC.		6. US EPA ID Number LA D 0 7 9 4 6 4 0 9 5		7. State Transporter's ID		8. Transporter's Phone (318) 783-2624		9. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		9. State Transporter's ID		10. Transporter's Phone		11. State Transporter's ID	
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number LA D 8 8 1 0 5 7 7 0 6		11. State Facility's ID		12. Facility's Phone (504) 631-3161		13. State Facility's ID	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.	
a. Waste Flammable Liquid, N.O.S. Flammable Liquid UN1993 RQ, (D001, F001, F002, F003, F005, K085,) (HEXANE, HER)		0 0 1 T T		5 4 0 0		G		D001, F001 F002, R F003, F005	
b.								R	
c.								R	
d.								R	
16. Additional Descriptions for Materials Listed Above Additional Waste Codes: K085 HSP-HSCO-8904681		RECYCLE / REUSE		K. Handling Codes for Wastes Listed Above					
15. Special Handling Instructions and Additional Information RUBBER GLOVES, RESPIRATORS, SAFETY GLASSES, FOAM AND/OR CO ₂ FOR FIRE CONTROL. CONTAIN SPILLAGE. IN THE EVENT OF CONTINGENCY, CALL LOUISIANA STATE POLICE HAZARDOUS MATERIALS IF UNABLE TO DELIVER, RETURN TO GENERATOR INVT (504) 925-6595.									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name JEFREY DELANEY		Signature [Signature]		Month Day Year 11-11-11					
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Eric L. [Signature]		Signature [Signature]		Month Day Year 11-11-11					
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year					
19. Discrepancy Indication Space									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name Gail Leonard									
Signature [Signature]		Month Day Year 11-11-11							

EPA Form 170-221 Rev 9-88 WHITE - DEQ, GREEN - Generator, YELLOW - TSDRF, BLUE - Transporter 2, PINK - Transporter 1, GOLD - Generator INFORMATION 1-1-12

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U.S. MSP
PRODUCED BY MSP 9/93
Requester's Signature
Date of Receipt

MSD054

2405

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST NO. 015081

Form Approved OMB No. 2050-0039 Expires 9-30-91

Please print or type. (Form designed for use on 12-pitch typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. LA D 0 7 9 4 6 4 0 9 5		Manifest Document No. 112121		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address GSX RECOVERY SYSTEMS INC. ✓ HWY 1112 CROWLEY LA 70526				6. USEPA ID Number LA D 0 7 9 4 6 4 0 9 5		A. State Manifest Document Number 112121		B. State Generator's ID 112121	
4. Generator's Phone (318) 783-2624 ✓				7. Transporter 1 Company Name GSX RECOVERY SYSTEMS INC. ✓		C. State Transporter's ID 112121		D. Transporter's Phone 318-783-2624	
5. Transporter 2 Company Name				8. USEPA ID Number		E. State Transporter's ID		F. Transporter's Phone	
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. ✓ HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380				10. USEPA ID Number LA D 9 8 1 0 5 7 7 0 6		G. State Facility's ID 112121		H. Facility's Phone (504) 631-3161	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
a. Waste Flammable Liquid, N.O.S. Flammable Liquid UN1993 RQ, (D001, F001, F002, F003, F005, K085,) (HEXANE, HEK)				0 0 1 T T		5 4 0 0		G	
b.									
c.									
d.									
15. Additional Descriptions for Materials Listed Above Additional Waste Code: K085 ✓ HSP-HSC0-8904681				RECYCLE / REUSE		K. Handling Codes for Wastes Listed Above			
16. Special Handling Instructions and Additional Information RUBBER GLOVES, RESPIRATORS, SAFETY GLASSES, FOAM AND/OR CO ₂ FOR FIRE CONTROL. CONTAIN SPILLAGE. IN THE EVENT OF CONTINGENCY, CALL LOUISIANA STATE POLICE HAZARDOUS MATERIALS IF UNABLE TO DELIVER, RETURN TO GENERATOR (504) 631-3161									
17. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name OETIE DELAUR ✓				Signature [Signature]		Month Day Year 11/1/91			
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature [Signature]		Month Day Year 11/6/91			
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Month Day Year			
19. Discrepancy Indication Space DER052316									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name Gail Leonard									
Signature [Signature]				Month Day Year 06/29/92					

EPA Form 3520-22 (Rev. 8-88)

WHITE - DEQ. GREEN - Generator, YELLOW - TSDRF, BLUE - Transporter 2, PINK - Transporter 1, GOLD - Generator

DEQ FORM 3520-22 (Rev. 8-88)

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U.S. MAP
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RECYCLE / REUSE
MANIFEST NO. 015081

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2406

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2407

By Donald J. Henson

WAF 11000 1000 010 110 000

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U.S. V. MAP PRODUCE BY MAP 9/93

NOT RECORDED
PROJECT 4-11-92
Litho 1-14-93
MSD054

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2408

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION

P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST NO. 015451

Please print or type. (Form designed for use on office (12-pitch) typewriter.)

Form Approved OMB No. 2050-0038. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address Marine Hydraulics, Inc. 543 E. Indian River Road Norfolk, VA 23523		7141111017131031011718			A. State Manifest Document Number
4. Generator's Phone (804) 546-6001 Contact: Kim Curran					B. State Generator's ID
5. Transporter 1 Company Name TVA Trucking, Inc.		6. US EPA ID Number 1711111017131031011718			C. State Transporter's ID
7. Transporter 2 Company Name Tri State Motor Transit		8. US EPA ID Number 1711111017131031011718			D. Transporter's Phone 804-424-7925
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number 1711111017131031011718			E. State Transporter's ID
					F. Transporter's Phone 804-641-7580
					G. State Facility's ID
					H. Facility's Phone (504) 631-3161
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.
a. Non-hazardous Waste Oil		000	00000		Non-Regulated
b. (RQ) Waste Paint Related Material Flammable Liquid 1253 (0001)		012	00000		Regulated
c. Non-hazardous Waste Solid 105		000	00000		Non-Regulated
d. Non-hazardous					R
J. Additional Descriptions for Materials Listed Above A. WLBI/EIWD/8905723 B. WLVA/EIWD/9002354 C. WLVA/EIWD/9002878/DEO		K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information J.L. Black & Associates P.O. Box 1363 Baton Rouge, LA 70801 IF UNABLE TO DELIVER, RETURN TO GENERATOR		Consultant: Gene Brown JL Black & Associates (504) 424-7225			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name Charles E. Saba, Jr.		Signature C.E. Saba		Month Day Year 10/6/27/90	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name W.T. Novaker, Jr.		Signature W.T. Novaker, Jr.		Month Day Year 10/6/27/90	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name David Ransom		Signature David Ransom		Month Day Year 10/6/27/90	
19. Discrepancy Indication Space None containers were found.		DE052318			
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name Gail Leonard		Signature Gail Leonard		Month Day Year 10/6/27/90	

EPA Form 8700-21 (Rev. 9-88)

WHITE - DEQ, GREEN - Generator, YELLOW - TSDRF, BLUE - Transporter 2, PINK - Transporter 1, GOLD - Generator

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U.S. V. MAP
PRODUCED BY MAP-9/93
REQUEST
WALTER HERRMANN, JR.
NATIONAL MAPS

MSD054

2409



MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

9002364

APR 30 1990

For MSP Use Only

Approval Code

WLVA/MHYD/9002364

A. Generator Information

Generator Name Marine Hydraulics International
Site Address 543 E, Indian river Rd
City Norfolk State VA Zip Code 23523
Generator Contact Kim Currin
Title Project Manager
Telephone No. (804) 545 6400
Facility EPA ID. No. VAD119077303

B. Customer Information

Company Name W. L. Black & Associates
Contact Harry C. Wheeler, Jr.
Address P. O. Box 1363
Chesapeake, Va 23320
Telephone No. (804) 424-7925
For Customer Use

C. Regulatory Information

☒ RCRA Regulated ☐ Land Ban ☐ Non-Regulated EPA Waste Code(s) D001

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%)
paint chips & sludge

MIN MAX
100

Common Name of Waste: paint waste

E. General Characteristics

Color: varies
Odor: ☐ None ☒ Mild ☐ Strong
☐ Liquid ☒ Sludge ☒ Solid ☐ Powder
Phases ☐ Single Layer ☒ Double Layer ☐ Multi-Layer

F. Specific Characteristics

In the waste:

Radioactive? Y ☒ N Polymerizable? Y ☒ N
Infectious? Y ☒ N Pyrophoric? Y ☒ N
Water Reactive? Y ☒ N Explosive? Y ☒ N

G. Physical/Chemical Properties

Ash (Est actual Wt %) 74.98 Water (Wt %) ☒ <1 ☐ 5-10 Specific Gravity ☐ <0.8 ☐ 1.2-1.4
BTU's per lb (Est actual value) 4,760 ☐ 1-5 ☒ >10 ☐ 0.8-1.0 ☐ 1.4-1.7
☐ 1.0-1.2 ☒ >1.7
List actual solid

Viscosity (for bulk liquids only) N/A Total Suspended Solids (Wt % for bulk liquids only) N/A pH neutral
List actual in centipoise N/A ☐ 5-20 ☒ >20 ☐ 2-6 ☐ 6-10
List actual N/A ☐ 10-12.5 ☒ if <2 or >12.5
List actual neutral

Flash Point (closed cup) < 100°F Sulfur (Wt %) < 5
☒ < 100°F ☐ > 200°F ☐ 100-140°F ☐ 140-200°F actual < 5
if > 5 list actual value

Halogens (Wt %) < 1 1-5 5-10
☒ Iodine ☐ ☐
☐ Bromine ☐ ☐
☐ Chlorine ☐ ☐
☐ Fluorine actual Wt %

DEQ052319

Metals: EP Toxicity Test (M/G/I)

Arsenic (As) n/s
Barium (Ba) n/s
Cadmium (Cd) n/s
Chromium (Cr) n/s
Lead (Pb) n/s
Mercury (Hg) n/s

Selenium (Se) n/s
Silver (Ag) n/s
Copper (Cu) n/s
Nickel (Ni) n/s
Zinc (Zn) n/s

Organics (ppm)

Endrin n/s
Dieldrin n/s
Methoxychlor n/s
Toxaphene n/s
2,4-D n/s
2,4,5-TP (Silvex) n/s

If material contains the following

compounds, indicate actual ppm:
PCB n/s
Cyanides n/s
Sulfides n/s
Dioxin n/s

BOX 653 REQUEST # 11-073
LAWRENCE HIGGINS 1/16/08
MADISON, MD

2025 RELEASE UNDER E.O. 14176

MSD054

70142

Generating Process: paint booth cleanout

Please attach all materials safety data sheets, logistic sketches, analysis reports, handling precautions, additional hazardous support information, data and comments.

DOT Hazardous Material (Y) N
Proper Shipping Name RQ Waste Paint related Material nos DOT LD. No. UN 1263 (circle one)
UN/NA

Hazard Class Flammable Liquid

Anticipated Volume 5 ☒ Drums ☐ Gal ☐ Yds ☐ Lbs ☐ Bulk? ☐ Rail?

Container Size	55	Container Type	17H
----------------	----	----------------	-----

Per ☒ One time ☐ Week ☐ Month ☐ Year ☐ Other

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 willful omission of composition or properties exist, and that all known or suspected hazards have been disclosed, I certify that the materials tested are representative of all material described by this Materials Characterization Data Sheet.

1. *[Signature]*
Generator's Signature

2. Kim Currin
Name (Type or Print)

1. 4/25/90

1 subcontracts administration

This Materials Characterization Data Sheet must be recertified (i.e. updated) twelve months from the date signed and thereafter recertified on an annual basis. In addition, if the characteristics of the material change or if the generating process changes, a new MCDS must be submitted for approval prior to shipment.

STATE OF LOUISIANA -
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST NO. 015905

Form Approved OMB No. 2050-0039 Expires 9-30-91

Please print or type. (Form designed for use on 8 1/2 inch (12 pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <u>VIAID0554773439018</u>		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <u>Altuf Screen Printing</u> <u>2625 E. Princess Anne Road Norfolk, Va 23502</u>				A. State Manifest Document Number			
4. Generator's Phone (804) <u>853-7041</u> Contact: <u>John McGovern</u>				B. State Generator's ID			
5. Transporter 1 Company Name <u>HLB Trucking, Inc.</u>				C. State Transporter's ID <u>7827050487</u>			
6. US EPA ID Number <u>VIAID982705048</u>				D. Transporter's Phone <u>804242925</u>			
7. Transporter 2 Company Name <u>Tri State Motor Transit</u>				E. State Transporter's ID <u>100950389986</u>			
8. US EPA ID Number <u>HAID095038998</u>				F. Transporter's Phone <u>8006417580</u>			
9. Designated Facility Name and Site Address <u>MARINE SHALE PROCESSORS, INC.</u> <u>HIGHWAY 80 EAST</u> <u>MORGAN CITY, LOUISIANA 70380</u>				G. State Facility's ID <u>LA981057706</u>			
10. US EPA ID Number <u>LA981057706</u>				H. Facility's Phone <u>(504) 631-3161</u>			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers		13. Total Quantity	
				No. Type		14. Unit Wt/Vol	
a. <u>R.Q. Waste Combustible Liquid, H.O.S. (F003/D001)</u> <u>Combustible NA 1993</u>				<u>2020</u> <u>20.095</u>		<u>F003</u> <u>D001</u>	
b.							
c.							
d.							
15. Additional Descriptions for Materials Listed Above <u>HLB/ASPC/8904967</u>				K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information <u>W. L. Black & Associates Consultant: Fay Michael</u> <u>P.O. Box 1363 Chesapeake, Va 23320</u> <u>IF UNABLE TO DELIVER, RETURN TO GENERATOR</u>				<u>WLDA JOB # ALT001-20-26</u> <u>804-424-7825</u>			
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name <u>John M McGovern</u>				Signature <u>John M McGovern</u>		Month Day Year <u>09/21/90</u>	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature <u>W.T. Harder ID</u>		Month Day Year <u>10/21/90</u>	
Printed/Typed Name <u>W.T. Harder ID</u>				Signature <u>David Ransom</u>		Month Day Year <u>10/21/90</u>	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature <u>David Ransom</u>		Month Day Year <u>10/21/90</u>	
Printed/Typed Name <u>DAVID RANSOM</u>				Signature <u>David Ransom</u>		Month Day Year <u>10/21/90</u>	
19. Discrepancy Indication Space <u>DEQ052321</u>							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.							
Printed/Typed Name <u>Lois Larnard</u>				Signature <u>Lois Larnard</u>		Month Day Year <u>10/21/90</u>	

EPA Form FRO-22 (Rev. 8/88)

WHITE - DEQ. GREEN - Generator. YELLOW - 1SDRF. BLUE - Transporter 2. PINK - Transporter 1. GOLD - Generator

INFORMATIONAL USE ONLY

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U.S. V. MAP
PRODUCED BY MAP-9/93
REGISTERED
UNITED STATES OF AMERICA
MARINE SHALE PROCESSORS, INC.

MSD054

24121

8911967
MCQS Document #

MATERIALS CHARACTERIZATION DATA SHEET

P.O. BOX 1698 • KENNER, LA 70063
SALES (504) 465-3310

WLB/ASPC/8904967
MSP CODE:

Generator Name ALTUF SCREEN PRINTING CO
Facility Address 4625 E. PRINCESS ANNE ROAD
City, State, Zip NORFOLK, VA 23502
Technical Contact JOHN MCGOVERN
Title MANAGER
Telephone NO. (804) 853-7641 EXT:
Facility EPA ID # VAD055477343

Bill To: W. L. BLACK & ASSOCIATES
Address: 912-D LIVE OAK DRIVE
City, State, Zip: CHESAPEAKE, VA 23320
Telephone #: (804) 424-7925
Company Contact: HARRY C. WHEELER, JR
Container Size: 50 gallon fiber drum
EPA Waste No. F003/D001

Generating Process SCREEN PRINTING
Common Name of Waste WASTE OIL & INK
Rate of Generation 2 DM PER QT
(Amount) (Units) (Time Interval)
Volume in Storage 4 DM IN Fiber Drum
(Amount) (Units) (Container Size and Type)

Is Waste DOT Hazardous ☒ YES ☐ NO
Proper DOT Shipping Name RD WASTE COMBUSTIBLE LIQUID NOS
Hazard Class COMBUSTIBLE NA 1993
Transportation Equipment
Placarding NA 1993

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)	
<u>WATER</u>	<u>1</u> %
<u>OIL</u>	<u>40</u> %
<u>xylene</u>	<u>10</u> %
<u>ink pigments</u>	<u>40</u> %
<u>methylene chloride</u>	<u>9</u> %

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	<u>0</u>	Silver (Ag)	<u>0</u>
Barium (Ba)	<u> </u>	Copper (Cu)	<u> </u>
Cadmium (Cd)	<u> </u>	Nickel (Ni)	<u> </u>
Chromium (Cr)	<u> </u>	Zinc (Zn)	<u> </u>
Lead (Pb)	<u> </u>		<u> </u>
Mercury (Hg)	<u> </u>		<u> </u>
Selenium (Se)	<u> </u>		<u> </u>

INORGANICS (mg/l or ppm)

Total CN	<u>0</u>	Iodine	<u>0</u>
Free CN	<u> </u>	Asbestos	<u> </u>
Sulfide	<u> </u>		<u> </u>
Chloride	<u>1</u>		<u> </u>
Bisulfite	<u>0</u>		<u> </u>
Sulfite	<u> </u>		<u> </u>
Sulfate	<u> </u>		<u> </u>
Phosphate	<u> </u>		<u> </u>
Fluorine	<u> </u>		<u> </u>
Bromine	<u> </u>		<u> </u>
Chlorine	<u> </u>		<u> </u>

ORGANICS (mg/l or ppm)

Endrin	<u> </u>	Organohalide	<u> </u>
Methoxychlor	<u> </u>	Mercaptans	<u> </u>
Toxaphene	<u> </u>		<u> </u>
2,4-D	<u> </u>		<u> </u>
2,4,5-T	<u> </u>		<u> </u>
Phenolics	<u> </u>		<u> </u>
PCBs	<u> </u>		<u> </u>
Dioxin	<u> </u>		<u> </u>
TOC	<u> </u>		<u> </u>

PHYSICAL DESCRIPTION

Physical State ☐ Liquid ☒ Semi-solid ☐ Solid
Phases/Layering ☐ Uni-Layer ☒ Bilayer ☐ Multilayer
Viscosity ☐ High ☐ Medium ☒ Low
Type of Solids ☒ Organic ☐ Inorganic ☐ Mixed
Total Solids (wt. %) 90 Suspended Solids (wt. %)
BTU/lb 10,875 % Ash Content 12.57 % Water (by weight) 1%
Flash Point (°F) <200 Type CC
Specific Gravity Soft Sludge
Boiling Point, (°C) Freezing Point, (°C)
Vapor Pressure (mm Hg @ 24°C)
pH (Avg) 8.0 (Range) to
Total Alkalinity/Acidity (%)
Odor mild
Color grey

HAZARDOUS PROPERTIES

☐ NONE
☐ Water Reactive ☐ Reactive ☐ Explosive
☐ Shock Sensitive ☐ Pyrophoric ☐ Polymerizable
☐ Radioactive ☐ Pesticide Residuals ☒ Ignitable
☐ Corrosive ☐ Toxic Vapor ☐ Pathogen
☐ Biological ☐ Etiological
☐ Other

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORTS, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

CERTIFICATION: 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 omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE 9/11/89 GENERATOR'S SIGNATURE: J. V. M. McGoevern DEQ052322
MSP FORM 1001 (REV 1/81)

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

MANIFEST N° 015631

Form Approved. OMB No. 2050-0009. Expires 9-30-91

12A Form 8741 22 (Rev. 9/83) WHITE - DEO GREEN - General YELLOW - ISDB BLUE - Transceiver 2 PINK - Transceiver 1 GOLD - General

2413 F



MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

9003301

For MSP Use Only

Approval Code TAY/REI/9003301

A. Generator Information

Generator Name REICHOLD CHEMICALS, INC.
Site Address 237 MOTOR AVE.
City AZUSA State CA Zip Code 91702
Generator Contact JOHN CRAMER
Title PLANT MGR.
Telephone No. (818) 334-4974
Facility EPA I.D. No. CA-0008 295 834

B. Customer Information

Company Name INDUSTRIAL RECOVERY INC
Contact BILL TAYLOR
Address 2075 CORTE DEL NORAL ST. EX
CARLISBAD CA 92009
Telephone No. (619) 431-0811
For Customer Use

C. Regulatory Information

☐ RCRA Regulated ☐ Land Ban ☒ Non-Regulated EPA Waste Code(s) _____

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%.)

NON IONIC SURFACTANT
WATER.

MIN	MAX
<u>90</u>	<u>97</u>
<u>3</u>	<u>10</u>

Common Name of Waste: WASTE NON-IONIC

E. General Characteristics

Color: MILKY
Odor: ☐ None ☒ Mild ☐ Strong
Liquid ☐ Sludge ☐ Solid ☐ Powder
Phases ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:

Radioactive?	Y ☐ N ☒	Polymerizable?	Y ☐ N ☒
Infectious?	Y ☐ N ☒	Pyrophoric?	Y ☐ N ☒
Water Reactive?	Y ☐ N ☒	Explosive?	Y ☐ N ☒

G. Physical/Chemical Properties

Ash (list actual Wt %)	Water (Wt %)	Specific Gravity	Viscosity	Total Suspended Solids	pH
<u>6200</u>	☐ < 1 ☒ 1-5 ☐ > 10	☐ < 0.8 ☐ 0.8-1.0 ☐ 1.0-1.2 ☐ > 1.2	(for bulk liquids only) list actual in centipoise	(Wt % for bulk liquids only) <u>85-20</u> if > 20 list actual	☐ 2-6 ☒ 6-10 ☐ 10-12.5 if < 2 or > 12.5 list actual <u>7</u>

Flash Point (closed cup)

☐ < 100°F ☒ 100-140°F ☐ 140-200°F
if > 200°F actual _____

Sulfur (Wt %)

NS
if > 5 list actual value _____

Halogens (Wt %)

☐ Iodine ☐ Bromine ☐ Chlorine ☒ Fluorine
actual Wt % NS

if > 10 list actual Wt %

DEQ052324

Metals: EP Toxicity Test (MG/L)

Arsenic (As) NS
Barium (Ba) _____
Cadmium (Cd) _____
Chromium (Cr) _____
Lead (Pb) _____
Mercury (Hg) _____

Selenium (Se) NS

Silver (Ag) _____

Copper (Cu) _____

Nickel (Ni) _____

Zinc (Zn) _____

Organics (ppm)

Endrin NS
Lindane _____
Methoxychlor _____
Toxaphene _____
2,4-D _____
2,4,5-TP (Silvex) _____

If material contains the following compounds, indicate actual ppm:

PCB NS
Cyanides NS
Sulfides NS
Dioxin NS

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US V. MSP
PRODUCED BY MSP 9/93
RECEIVED
JUL 11 1990
MARSHALL FIELD

MSD054

2914

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OS V. MSP RELEASED

PRODUCED BY MSP 9/93

DO NOT WRITE IN THESE SPACES
UNLESS SPECIFICALLY REQUESTED

MSD054

24151

H. Notes, Additional Information or Special Handling Instructions

Generating Process: RESIN MANUFACTURE . EXCESS INVENTORY

I. Required Protective Equipment and Procedures

Please attach all materials safety data sheets, logistic sketches, analysis reports, handling precautions, additional hazardous support information, data and comments.

WEAR GLOVES + GOGGLES

J. Shipping Information

DOT Hazardous Material Y (N)
Proper Shipping Name

DOT LD. No. (circle one)
UN/NA

Hazard Class NON-REGULATED RQ

Anticipated Volume 1 Drums Gal Yds Lbs ☐ Bulk ☐ Rail

Container Size 5 GAL Container Type POLY
Per ☒ One time ☐ Week ☐ Month ☐ Year ☐ Other

Certification

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 willful omission of composition or properties exist, and that all known or suspected hazards have been disclosed, I certify that the materials tested are representative of all material described by this Materials Characterization Data Sheet.

1. John H. Cramer
Generator's Signature

2. John H. Cramer
Name (Type or Print)

3. 6-9-90
Date

4. PLANT MGR
Title

DEQ052325

Recertification Requirements

This Materials Characterization Data Sheet must be recertified (i.e. updated) twelve months from the date signed and thereafter recertified on an annual basis. In addition, if the characteristics of the material change or if the generating process changes, a new MCDS must be submitted for approval prior to shipment.

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST 012156

Form Approved OMB No. 2050-0038 Expires 9-30-91

Please print or type. (Form designed for use on 8 1/2 (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address Ohio Department of Transportation/Sidney District 101 St. Marys Lake, Sidney, Ohio 43365		01HD1019650511281070000		A. State Manifest Document Number	
4. Generator's Phone (513) 492-1141		5. Transporter 1 Company Name Continental Waste Control Co.		B. State Generator's ID	
6. US EPA ID Number		7. Transporter 2 Company Name		C. State Transporter's ID	
8. US EPA ID Number		9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		D. Transporter's Phone 419/726-1500	
10. US EPA ID Number		11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		E. State Transporter's ID	
12. Containers		13. Total Quantity		F. Transporter's Phone	
14. Unit Wt/Vol		15. Waste No.		G. State Facility's ID	
16. Facility's Phone (504) 631-3161		17. Additional Descriptions for Materials Listed Above		H. Facility's Phone	
18. Handling Codes for Wastes Listed Above		19. Special Handling Instructions and Additional Information		I. Facility's Phone	
20. Generator's Certification		21. Discrepancy Indication Space		22. Facility Owner or Operator	

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US V. MRP
PRODUCED BY MRP 9/93
RECEIVED
LABORATORY
REQUEST
DATE FOR ANALYSIS

MSD054

2416 F



MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

MAY 14 1990

For MSP Use Only

Approval Code

CWC/OHDT/9002650

A. Generator Information

Generator Name Ohio Department of Transportation
Site Address 1001 St. Mary's Avenue
City Sidney State OH Zip Code 45365
Generator Contact Jim Robinson
Title Engineering
Telephone No. (513) 492-1141
Facility EPA ID No. OHD 096 505 128

B. Customer Information

Company Name Cousins Waste Control Corp.
Contact Donald E. Parks
Address 1801 Matzinger Road
Toledo, Ohio 43612
Telephone No. (419) 726-1500
For Customer Use

C. Regulatory Information

☐ RCRA Regulated ☐ Land Ban ☒ Non-Regulated EPA Waste Code(s)

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%.)

Dried Paint & Pigment
Inert Ingredients

MIN 70 MAX 90
10 30

Common Name of Waste: Dried Paint

E. General Characteristics

Color: White
Odor: ☐ None ☒ Mild ☐ Strong
☐ Liquid ☐ Sludge ☒ Solid ☐ Powder
Phases: ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:

Radioactive? Y ☒ N Polymerizable? Y ☒ N
Infectious? Y ☒ N Pyrophoric? Y ☒ N
Water Reactive? Y ☒ N Explosive? Y ☒ N

G. Physical/Chemical Properties

Ash (Est actual Wt %) <5
BTUs per lb (Est actual value) 2,000
Water (Wt %) ☒ <1 ☐ 5-10 ☐ 1-5 ☐ >10
Specific Gravity ☐ <0.8 ☒ 1.2-1.4 ☐ 0.8-1.0 ☐ 1.4-1.7 ☐ 1.0-1.2 ☐ >1.7
Viscosity (for bulk liquids only) N/A cp
Total Suspended Solids (Wt % for bulk liquids only) ☐ 5-20 ☐ >20
pH ☐ 2-6 ☒ 6-10 ☐ 10-12.5 ☐ <2 or >12.5
Est actual 100 Est actual

Flash Point (closed cup)
☐ <100°F ☒ >200°F
☐ 100°-140°F ☐ actual
☐ 140°-200°F

Sulfur (Wt %) ☒ <5
☐ >5 Est actual value

Halogens (Wt %) <1 1-5 5-10 >10 Est actual Wt %
☐ Iodine ☐ ☐ ☐
☐ Bromine ☐ ☐ ☐
☐ Chlorine ☐ ☐ ☐
☐ Fluorine 0 actual Wt %

DEQ052327

Metals: EP Toxicity Test (MG/L)

Arsenic (As) <5.0
Barium (Ba) <100.0
Cadmium (Cd) <1.0
Chromium (Cr) <5.0
Lead (Pb) <5.0
Mercury (Hg) <0.2

Selenium (Se) <1.0
Silver (Ag) <5.0
Copper (Cu) <100.0
Nickel (Ni) <5
Zinc (Zn) <500.0

Organics (ppm)

Endrin none
Lindane none
Methoxychlor none
Toxaphene none
2,4-D none
2,4,5-TP (Silvex) none

If material contains the following

compounds, indicate actual ppm:
PCB none
Cyanides none
Sulfides none
Dioxin none

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ON V. MAP
PRODUCED BY MSP 9/93
RECEIVED 11/22/93
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11/22/93
11/22/93

MSD054

2417

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OS V. MAP RELEASED
PRODUCED BY MAP 9/93

Box 45
United States
Material, Hazardous

MSD054

2418

H. Notes, Additional Information or Special Handling Instructions

Generating Process: Water base paint, obsolete virgin material, moisture evaporated

I. Required Protective Equipment and Procedures

Please attach all materials safety data sheets, logistic sketches, analysis reports, handling precautions, additional hazardous support information, data and comments.

J. Shipping Information

DOT Hazardous Material ☒ Y ☒ N
Proper Shipping Name: Other Waste non-hazardous DOT LD. No. (circle one) UN/NA N/A
Hazard Class N/A RQ N/A
Anticipated Volume 1 Drums Gal Yds Lbs ☐ Bulk ☐ Rail
Container Size 55 Gallon Container Type 17 H
Per ☒ One time ☐ Week ☐ Month ☐ Year ☐ Other

K. Certification

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 willful omission of composition or properties exist, and that all known or suspected hazards have been disclosed, I certify that the materials tested are representative of all material described by this Materials Characterization Data Sheet.

1. Jim Robinson
Generator's Signature

2. Vin Robinson
Name (Type or Print)

3. MAY 4, 1990
Date

4. SURVEY TECH II
Title

DEQ052328

L. Recertification Requirements

This Materials Characterization Data Sheet must be recertified (i.e. updated) twelve months from the date signed and thereafter recertified on an annual basis. In addition, if the characteristics of the material change or if the generating process changes, a new MCDS must be submitted for approval prior to shipment.

OK
GL 5-1-90



MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC. MAY 14 1990
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

For MSP Use Only

Approval Code CWC/DHDT/9002651

9002651

A. Generator Information

Generator Name Ohio Department of Transportation
Site Address 1001 St. Mary's Avenue
City Sidney State OH Zip Code 45365
Generator Contact Jim Robinson
Title Engineering
Telephone No. (513) 492-1141
Facility EPA ID. No. OH0 096 505 128

B. Customer Information

Company Name Cousins Waste Control Corp.
Contact Don Parks
Address 1801 Matzinger Road
Toledo, Ohio 43612
Telephone No. (419) 726-1500
For Customer Use

C. Regulatory Information

☒ RCRA Regulated

☐ Land Ban

☐ Non-Regulated

EPA Waste Code(s) F005

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%.)

	MIN	MAX
<u>Floor Dry</u>	<u>10</u>	<u>20</u>
<u>Water</u>	<u>1</u>	<u>5</u>
<u>Anti-freeze</u>	<u>10</u>	<u>20</u>
<u>Paints</u>	<u>30</u>	<u>40</u>
<u>MEK</u>	<u>30</u>	<u>40</u>

Common Name of Waste: MEK, Paint, Anti-freeze and floor dry Sample #1

E. General Characteristics

Color: Yellow to Grey
Odor: ☐ None ☒ Mild ☐ Strong
☒ Liquid ☐ Sludge ☐ Solid ☐ Powder
Phases ☐ Single Layer ☐ Double Layer ☒ Multi-Layer

F. Specific Characteristics

Is the waste:

Radioactive?	Y ☒ N	Polymerizable?	Y ☒ N
Infectious?	Y ☒ N	Pyrophoric?	Y ☒ N
Water Reactive?	Y ☒ N	Explosive?	Y ☒ N

G. Physical/Chemical Properties

Ash (list actual Wt %)	Water (Wt %)	Specific Gravity	Viscosity	Total Suspended Solids	pH
<u><5</u>	☐ <1 ☐ 5-10	☐ <0.8 ☐ 1.2-1.4	(for bulk liquids only)	(Wt % for bulk liquids only)	☐ 2-6 ☒ 6-10
BTU's per lb	☒ 1-5 ☐ >10	☒ 0.8-1.0 ☐ 1.4-1.7	list actual in centipoise	☒ 5-20	☐ 10-12.5
(list actual value)		☐ 1.0-1.2 ☐ >1.7		☐ >20	☐ <2 or >12.5
<u>10,000</u>	list actual	list actual	<u>N/A</u> cp	list actual	list actual

Flash Point (closed cup)

☐ < 100°F ☒ > 200°F
☐ 100°-140°F ☐ _____°F
☐ 140°-200°F actual

Sulfur (Wt %)

☒ < 5
if > 5 list actual value

Halogens (Wt %)

☐ Iodine ☐ ☐
☐ Bromine ☐ ☐
☐ Chlorine ☐ ☐
☐ Fluorine ☒ 0 actual Wt %

if > 10 list actual Wt %

DEQ052329

Metals: EP Toxicity Test (PPM/L)

Arsenic (As) <5.0
Barium (Ba) <100.0
Cadmium (Cd) <1
Chromium (Cr) <5.0
Lead (Pb) <5.0
Mercury (H-g) <0.2

Selenium (Se) <1.0

Silver (Ag) <5.0

Copper (Cu) <100.0

Nickel (Ni) <1

Zinc (Zn) <500.0

Organics (ppm)

Endrin 0
Lindane 0
Methoxychlor 0
Toxaphene 0
2,4-D 0
2,4,5-TP (Silvex) 0

If material contains the following compounds, indicate actual ppm:

PCB 0
Cyanides 0
Sulfides 0
Dioxin 0

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MSD054

2419

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U.S. V. MSP Releaseable
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REPORT 1

Box 5
Vater's Hazardous Waste
Material, Inc.

MSD054

2420

H. Notes, Additional Information or Special Handling Instructions

Generating Process: Consolidation of waste paints, MEK, and Anti-freeze from floor clean up

I. Required Protective Equipment and Procedures

Please attach all materials safety data sheets, logistic sketches, analysis reports, handling precautions, additional hazardous support information, data and comments.

J. Shipping Information

DOT Hazardous Material ☒ Y ☐ N
Proper Shipping Name Hazardous Waste Liquid N.O.S. DOT LD. No. (circle one) UN/NA NA 9189
Hazard Class ORM-E RQ
Anticipated Volume 1 Drums Gal Yds lbs ☐ Bbl? ☐ Rail?
Container Size 55 gallon Container Type 17H
Per ☒ One time ☐ Week ☐ Month ☐ Year ☐ Other

Certification

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 willful omission of composition or properties exist, and that all known or suspected hazards have been disclosed, I certify that the materials tested are representative of all material described by this Materials Characterization Data Sheet.

1. Jim Robinson 2. Jim Robinson
Generator's Signature Name (Type or Print)

3. May 1, 1990 4. Survey Tech II
Date Title

Recertification Requirements

This Materials Characterization Data Sheet must be recertified (i.e. updated) twelve months from the date signed and thereafter recertified on an annual basis. In addition, if the characteristics of the material change or if the generating process changes, a new MCDS must be submitted for approval prior to shipment.

DEQ052330

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC. MAY 14 1990 For MSP Use Only
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310 9002652

Approval Code CWC/OHDT/9002652

A. Generator Information

Generator Name Ohio Department of Transportation
Site Address 1001 St. Mary's Ave
City Sidney State OH Zip Code 45365
Generator Contact Jim Robinson
Title Engineering
Telephone No. (513) 492-1141
Facility EPA I.D. No. OHD 096 505 128

B. Customer Information

Company Name Cousins Waste Control Corp.
Contact Donald E. Parks
Address 1801 Matzinger Road
Toledo, Ohio 43612
Telephone No. (419) 726-1500
For Customer Use

C. Regulatory Information

☐ RCRA Regulated ☐ Land Ban ☒ Non Regulated EPA Waste Code(s)

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%)

	MIN	MAX
Paint Chips	3	10
Sand	90	97

Common Name of Waste: Sandblast and Paint from Vehicles Sample #4

E. General Characteristics

Color: BROWN
Odor: ☒ None ☐ Mild ☐ Strong
☐ Liquid ☐ Sludge ☒ Solid ☐ Powder
Phases: ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:

Radioactive?	Y	☒ N	Polymerizable?	Y	☒ N
Infectious?	Y	☒ N	Pyrophoric?	Y	☒ N
Water Reactive?	Y	☒ N	Explosive?	Y	☒ N

G. Physical/Chemical Properties

Ash (list actual Wt %)	Water (Wt %)	Specific Gravity	Viscosity	Total Suspended Solids	pH
1 > 10	☒ < 1 ☐ 5-10	☐ < 0.8 ☐ 1.2-1.4	(for bulk liquids only)	(Wt % for bulk liquids only)	☐ 2-6 ☒ 6-10
BTUs per lb	☐ 1-5 ☒ > 10	☐ 0.8-1.0 ☐ 1.4-1.7	list actual in centipoise	☐ 5-20	☐ 10-12.5
(list actual value)	list actual	list actual	N/A cp	☒ > 20	☒ < 2 or > 12.5
100				list actual 100	list actual

Flash Point (closed cup)

☐ < 100°F ☐ > 200°F
☐ 100°-140°F ☐ °F
☐ 140°-200°F actual

Sulfur (Wt %)

☒ < 5
if > 5 list actual value

Halogens (Wt %)

< 1	1-5	5-10
☒ Iodine	☐	☐
☒ Bromine	☐	☐
☒ Chlorine	☐	☐
☐ Fluorine	0	actual Wt %

if > 10 list actual Wt %

DEQ052331

Metals: EP Toxicity Test (MG/L)

Arsenic (As)	< 5.0
Barium (Ba)	< 100.0
Cadmium (Cd)	< 1.0
Chromium (Cr)	< 5.0
Lead (Pb)	< 5.0
Mercury (Hg)	< 0.2

Selenium (Se) < 1.0

Silver (Ag) < 5.0

Copper (Cu) < 100.0

Nickel (Ni) < 1.0

Zinc (Zn) < 500.0

Organics (ppm)

Endrin	0
Lindane	0
Methoxychlor	0
Toxaphene	0
2,4-D	0
2,4,5-TP (Silvest)	0

if material contains the following

compounds, indicate actual ppm:

PCB 0

Cyanides 0

Sulfides 0

Dioxin 0

MSD054

2421

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U.S. V. MSP
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RELEASABLE

NOTES:
1. *Sanblasting of Vehicles*
2. *Material Data Sheet*

MSD054

2422

H. Notes, Additional Information or Special Handling Instructions

07:0000

Generating Process: Sanblasting of Vehicles

I. Required Protective Equipment and Procedures

Please attach all materials safety data sheets, logistic sketches, analysis reports, handling precautions, additional hazardous support information, chain and comments.

J. Shipping Information

DOT Hazardous Material Y ☒ N

Proper Shipping Name

DOT LD. No.

(circle one)
UN/NA

Hazard Class non-regulated

RQ

Anticipated Volume 1

Drums

Gal

Yds

Lbs

☐ Bulk?

☐ Rail?

Container Size 55 Gallon

Container Type

17H

Per

☒ One Time

☐ Week

☐ Month

☐ Year

☐ Other

Certification

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 willful omission of composition or properties exist, and that all known or suspected hazards have been disclosed. I certify that the materials listed are representative of all material described by this Materials Characterization Data Sheet.

1. *Jim Peterson*
Generator's Signature

2. *Jim Peterson*
Name (Type or Print)

3. *MAY 1, 1990*
Date

4. *SURVEY TECH II*
Title

Recertification Requirements

This Materials Characterization Data Sheet must be recertified (i.e. updated) twelve months from the date signed and thereafter recertified on an annual basis. In addition, if the characteristics of the material change or if the generating process changes, a new MCDS must be submitted for approval prior to shipment.

DERO52332

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
DATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST NO 015972

Form Approved OMB No. 2050-0039, Expires 9-30-91

Please print or type. (Form designed for use on site (12-pitch) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address Marina High School 15871 Springdale Avenue, Huntington Beach, CA 92646		4. Generator's Phone (714) 966-1838		A. State Manifest Document Number CAD 981 411 945	
5. Transporter 1 Company Name Sun Environmental Services		6. US EPA ID Number 01A113141110145		C. State Transporter's ID 108595	
7. Transporter 2 Company Name Triad Transportation		8. US EPA ID Number 01K0981588791		D. Transporter's Phone (213) 719-7111	
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number L1A1D98105177016		E. State Transporter's ID F. Transporter's Phone (918) 426-4751	
				G. State Facility's ID H. Facility's Phone (504) 631-3161	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol	L Waste No.
a. Waste Acid Liquid, H.O.S. Corrosive NA 175		1	1	1	DO02 R
b. Waste Flammable Solid, H.O.S. Flammable UN 1325		1	1	1	DO01 R
c. Hazardous Waste Solid or Liquid, H.O.S. ORM-H NA 3145		1	1	1	DO01 R
d. Waste Flammable Liquid, H.O.S. Flammable UN 1993		1	1	1	U019 U044 R DO01
J. Additional Descriptions for Materials Listed Above a) See attachment #1 (05 gals) b) See attachment #2 (05 gals) c) See attachment #3 (05 gals) d) See attachment #4 (05 gals)		RECYCLE / REUSE SURE/NIHS/9002776/Lp		K. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information Wear goggles and gloves. Emergency Response Guide: 1, 60, 9) 32, 9) 31, 9) 11					
IF UNABLE TO DELIVER, RETURN TO GENERATOR					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name WILLIAM J. GONZALEZ		Signature [Signature]		Month Day Year 10/23/90	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name ELON O. OAKLEY		Signature [Signature]		Month Day Year 10/23/90	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name RICKY TURPIN		Signature [Signature]		Month Day Year 10/23/90	
19. Discrepancy Indication Space		DEQ052333			
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.					
Printed/Typed Name GAIL BROWN		Signature [Signature]		Month Day Year 10/23/90	

EPA Form 350 (Rev. 9-90) WHITE - DEQ, GREEN - Generator, YELLOW - 1SDRF, BLUE - Transporter 2, PINK - Transporter 1, GOLD - Generator, INFORMATION USE ONLY

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US V. MSP
PRODUCED BY MSP/9/93
NOT A
5-
PROCESSED
HAZARDOUS WASTE
MANIFEST

MSD054

24231

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE ✓

MANIFEST No 907310

Please print or type. (Form designed for use on 8 1/2 (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address GenCopp Polymer Products, P. O. Box 191 Columbus, MS 39703		4. Generator's Phone (601) 327-1522 ✓	A. State Hazardous Waste Manifest Number B. State Generator's ID Number C. State Transporter's ID Number D. Transporter's Phone (504) 631-3161 ✓ E. State Transporter's ID Number F. Transporter's Phone (504) 631-3161 ✓ G. State Facility's ID Number H. Facility's Phone (504) 631-3161 ✓	
5. Transporter 1 Company Name MARINE SHALE PROCESSORS ✓		6. US EPA ID Number 11 1A 10 10 11 10 15 17 17 10 16		
7. Transporter 2 Company Name		8. US EPA ID Number		
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380 ✓		10. US EPA ID Number LA 1A 10 10 11 10 15 17 17 10 16		
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type	13. Total Quantity	14. UNH WVVOL
a. AUTHORIZATION CODE DTG 9002529, SCRAP PIGMENTS, WASTE SOLVENT, FLAMMABLE LIQUID, N.O.S., UN 1993		13 12 H	11 12 K 11	C
b. AUTHORIZATION CODE DTG 8806257, OIL WASTE, HAZARDOUS WASTE LIQUID, N.O.S., ORM-E, NA 9189		12 15 D N	11 13 B 11	G
c. AUTHORIZATION CODE DTG 8806261, ROTARY SCREEN WASTE, WASTE SOLVENT, FLAMMABLE LIQUID, N.O.S., UN 1993		11 15 D 11	11 13 B 11	G
d. AUTHORIZATION CODE DTG 9002532, FILTER CAKE, HAZARDOUS WASTE SOLID, N.O.S., ORM-E, NA 9189		11 18 D M	11 14 K 11	G
15. Special Handling Instructions and Additional Information 1. DAM UP TO PREVENT RUNOFF. 2. SHOVEL INTO APPROVED DOT CONTAINERS. 3. DISPOSE OF PROPERLY. IF UNABLE TO DELIVER, RETURN TO GENERATOR		K. Handling Codes for Wastes Listed Above		
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.				
Printed/Typed Name DALTON WINDHAM ✓		Signature Dalton Windham ✓		Month Day Year 11 11 90 ✓
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name LORAN WAYNE DANIELS ✓		Signature Loran Wayne Daniels ✓		Month Day Year 11 12 90 ✓
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year
19. Discrepancy Indication Space		DEQ052334		
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name Dan Gramer		Signature Dan Gramer		Month Day Year 11 12 10 90

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

MAY 08 1990

For MSP Use Only

Approval Code

DTG/DTG/9002532
8802372

A. Generator Information

Generator Name GenCorp Polymer Products
Site Address P.O. Box 191, Yorkville Road
City COLUMBUS State MS Zip Code 39701
Generator Contact ROBERT E. MCCAIN
Title ENVIRONMENTAL ENGR.
Telephone No. (601) 327-1522
Facility EPA I.D. No. HSD 004001244

B. Customer Information

Company Name _____
Contact _____
Address _____
Telephone No. () _____
For Customer Use _____

C. Regulatory Information

☐ RCRA Regulated

☒ Land Ban

☐ Non-Regulated

EPA Waste Code(s) F003, F005

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 100%. Total in maximum column must be greater than or equal to 100%.)

PVC ACRYLIC RESINS & PLASTICISERS
MEL
HTBK
TOLUENE
PLASTICIZER
WATER

	MIN	MAX
<u>PVC ACRYLIC RESINS & PLASTICISERS</u>	<u>30</u>	<u>40</u>
<u>MEL</u>	<u>0</u>	<u>1</u>
<u>HTBK</u>	<u>0</u>	<u>1</u>
<u>TOLUENE</u>	<u>0</u>	<u>1</u>
<u>PLASTICIZER</u>	<u>2</u>	<u>4</u>
<u>WATER</u>	<u>55</u>	<u>75</u>

Common Name of Waste: FILTER CAKE

E. General Characteristics

Color: PINKISH GREY
Odor: ☐ None ☒ Mild ☐ Strong
☐ Liquid ☐ Sludge ☒ Solid ☐ Powder
Phases ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:

Radioactive? Y ☒ N ☐ Polymerizable? Y ☒ N ☐
Infectious? Y ☒ N ☐ Pyrophoric? Y ☒ N ☐
Water Reactive? Y ☒ N ☐ Explosive? Y ☒ N ☐

G. Physical/Chemical Properties

Ash (list actual Wt %) 30
Water (Wt %) ☐ <1 ☐ 5-10 ☐ >10
BTU's per lb (list actual value) 5000
Specific Gravity ☐ <0.8 ☐ 0.8-1.0 ☐ 1.0-1.2 ☐ >1.2
list actual 1.05

Viscosity (for bulk liquids only) list actual in centipoise _____ cp

Total Suspended Solids (Wt % - for bulk liquids only) ☐ 5-20 ☐ >20
list actual _____

pH ☐ 2-6 ☐ 6-10 ☐ 10-12.5
if <2 or >12.5 list actual NEUTRAL SOLID

Flash Point (closed cup)

☐ <100°F ☒ 100-200°F ☐ >200°F
actual _____

Sulfur (Wt %)

☒ <5 ☐ >5 list actual value _____

Halogens (Wt %)

☒ Iodine ☐ 1-5 ☐ 5-10 ☐ >10 list actual Wt %
☒ Bromine ☐ 1-5 ☐ 5-10 ☐ >10 list actual Wt %
☒ Chlorine ☐ 1-5 ☐ 5-10 ☐ >10 list actual Wt %
☐ Fluorine actual Wt % _____

Metals: EP Toxicity (ppm) (MCL)

Arsenic (As) None
Barium (Ba) None
Cadmium (Cd) None
Chromium (Cr) None
Lead (Pb) None
Mercury (Hg) None

Selenium (Se) None
Silver (Ag) None
Copper (Cu) None
Nickel (Ni) None
Zinc (Zn) None

Organics (ppm)

Endrin None
Lindane None
Methoxychlor None
Toxaphene None
2,4-D None
2,4,5-TP (Silvex) None

If material contains the following compounds, indicate actual ppm:
PCB None
Cyanides None
Sulfides None
Dioxin None

DEQ052335

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H. Notes, Additional Information or Special Handling Instructions

Generating Process: Solvent DISTILLATION PROCESS

I. Required Protective Equipment and Procedures

Please attach all materials safety data sheets, logistic sketches, analysis reports, handling precautions, additional hazardous support information, data and comments.

J. Shipping Information

DOT Hazardous Material ☒ Y ☐ N
Proper Shipping Name HAZARDOUS WASTE SOLID, N.O.S. DOT I.D. No. 9189
Hazard Class ORM-E ☐ RQ
Anticipated Volume 15 Drums ☐ Gal ☐ Yds ☐ lbs ☐ Bulk? ☐ Rail?
Container Size 55 GAL Container Type D.O.T. DRUM
Per ☐ One time ☐ Week ☒ Month ☐ Year ☐ Other

Certification

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 willful omission of composition or properties exist, and that all known or suspected hazards have been disclosed, I certify that the materials tested are representative of all material described by this Materials Characterization Data Sheet.

1. Robert E. McClain 2. Robert E. McClain
Generator's Signature Name (Type or Print)

3. 5/2/90 4. ENVIRONMENTAL ENG.
Date Title

Recertification Requirements

This Materials Characterization Data Sheet must be recertified (i.e. updated) twelve months from the date signed and thereafter recertified on an annual basis. In addition, if the characteristics of the material change or if the generating process changes, a new MCDS must be submitted for approval prior to shipment.



TRANSMITTAL

Date: May 4, 1990

TO: Marine Shale Processors
110 James Drive West, Suite 120
Saint Rose, LA 70087

ATTENTION: Dawn Patterson

PROJECT: Updated Profile
Data Sheets

☒ We enclose herewith ☐ Under separate cover

No. of copies	Drawing No.	Description
1		New Data Sheet DTG 8802369
1		New Data Sheet DTG 8802370
1		New Data Sheet DTG 8802371
1		New Data Sheet DTG 8802372

These are: ☒ for your approval.
☐ revised for final approval.
☐ file and distribution.
☐ Please return ☐ copies.
☐ approved as noted.

☐ approved.
☐ as requested.
☐ resubmit.
☐ quotation.
☐ information.

Remarks:

Please find the enclosed profile data sheets for those materials which were not re-certified.

Please call me when these are approved.

Robert E. McClain
Environmental Engineer

Fabricated Plastics Division
Columbus Plant, P.O. Box 191 Columbus, Mississippi 39703 (601) 327-1522

DEQ052337

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Hatch, Henshaws, Place
Hatch, Henshaws, Place

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ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
MON ROUGE, LOUISIANA 70804

MANIFEST NO 015103
Form Approved OMB No. 2050-0039, Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. LA D 017 9 4 6 4 0 9 5

2. Page 1 of 1 Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
GSX RECOVERY SYSTEMS INC. ✓
HWY 1112 CROWLEY LA 70526

4. Generator's Phone (318) 783-2624 ✓

5. Transporter 1 Company Name
GSX RECOVERY SYSTEMS INC. ✓

6. US EPA ID Number
LA D 017 9 4 6 4 0 9 5

7. Transporter 2 Company Name

8. US EPA ID Number

9. Designated Facility Name and Site Address
MARINE SHALE PROCESSORS, INC.
HIGHWAY 90 EAST
MORGAN CITY, LOUISIANA 70380 ✓

10. US EPA ID Number
LA D 9 8 1 0 5 7 7 0 6

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

a. Waste Flammable Liquid, N.O.S.
Flammable Liquid UN1993
RQ, (D001, F001, F002, F003, F005, K005,) (HEXANE, MEQ)

b.

c.

d.

12. Containers
No Type 13. Total Quantity 14. Unit Wt/Vol 15. Waste No.

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name Matthew N. Shaw Signature Matthew N. Shaw Month Day Year 12/10/93

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space DEQ052338

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name Joanie Labarre Signature Joanie Labarre Month Day Year 12/10/93

DEQ FORM HW-3 (R 93)

WHITE - DEQ, GREEN - Generator, YELLOW - TSDRF, BLUE - Transporter 2, PINK - Transporter 1, GOLD - Generator

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST NO 015086

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. LA E 079464095		Manifest Document No. 1		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address GSX RECOVERY SYSTEMS INC. Rt 1112 GEORGETOWN LA 70526				A. State Manifest Document Number 15015		RECEIVED			
4. Generator's Phone (318) 783-2624				B. State Generator's ID					
5. Transporter 1 Company Name GSX RECOVERY SYSTEMS INC.				6. US EPA ID Number LA E 079464095		C. State Transporter's ID		D. Transporter's Phone 708/850-2500	
7. Transporter 2 Company Name				8. US EPA ID Number		E. State Transporter's ID		F. Transporter's Phone	
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380				10. US EPA ID Number LA D 981057706		G. State Facility's ID LA 001 N REGION		H. Facility's Phone (504) 631-3161	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
a. Waste Flammable Liquid, R.O.S. Flammable Liquid UN1993 RQ, (D001, F001, F002, F003, F005, R005,) (HEXANE, HEX)				0, 0, 1 T, T		5, 4, 0, 0		C	
b.								R	
c.								R	
d.								R	
J. Additional Descriptions for Materials Listed Above I. Additional Waste Code: K085 A. MSP-HISCO-8904681				RECYCLE / REUSE		K. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information RUBBER GLOVES, RESPIRATORS, SAFETY GLASSES, FOAM ABSORBER, CO ₂ FOR FIRE CONTROL. CONTAIN SPILLAGE. IN THE EVENT OF CONTINGENCY, CALL LOUISIANA STATE POLICE HAZARDOUS MATERIALS IF UNABLE TO DELIVER, RETURN TO GENERATOR. (504) 386-6500									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name E. Immanuel				Signature E. Immanuel				Month Day Year 12/27/90	
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name KORNER-D. W. ASHES				Signature D. W. Ashes				Month Day Year 12/27/90	
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name				Signature				Month Day Year	
19. Discrepancy Indication Space				DEQ052339					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name D. W. Ashes									
Signature D. W. Ashes				Month Day Year 12/27/90					

EPA Form 360 (Rev. 8/90)

WHITE - DEQ GREEN - Generator YELLOW - TSDOR BLUE - Transporter 2 PINK - Transporter 1 GOLD - Generator

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Manifest No. 015086

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE
MANIFEST NO 015087

Please print or type. (Form designed for use on 12-pitch typewriter.)

Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. LA D 0 7 9 4 6 4 0 9 5		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address GSX RECOVERY SYSTEMS INC HWY 1112 CROWLEY LA 70526 4. Generator's Phone (318) 783-2624						A. State Manifest Document Number 015087			
5. Transporter 1 Company Name GSX RECOVERY SYSTEMS INC.						6. US EPA ID Number LA 1 0 7 9 4 6 4 0 9 5		C. State Transporter's ID	
7. Transporter 2 Company Name						8. US EPA ID Number		E. State Transporter's ID	
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380						10. US EPA ID Number LA D 9 8 1 0 5 7 7 0 6		G. State Facility's ID	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers		13. Total Quantity	
a. Waste Description: FLAMMABLE LIQUID, R.C.S. Flammable Liquid UN1993 RQ, (D001, F001, F002, F003, F005, K005,) (HEXANE, MER)						No. Type		Waste No.	
						0 0 1 T T		D001, F001 F002, R F003, F005	
b.								R	
c.								R	
d.								R	
J. Additional Descriptions for Materials Listed Above I. Additional Waste Code: K005 A. MSP-11SCO-8904681						RECYCLE / REUSE		K. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information RUBBER GLOVES, RESPIRATORS, SAFETY GLASSES, FOAM AND/OR CO ₂ FOR FIRE CONTROL. CONTAIN SPILLAGE. IN THE EVENT OF CONTINGENCY, CALL LOUISIANA STATE POLICE HAZARDOUS MATERIALS IF UNABLE TO DELIVER, RETURN TO GENERATOR UNIT (504) 925-6595.									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name Edmond J. Smith						Signature Edmond J. Smith		Month Day / Year 12/13/90	
17. Transporter 1 Acknowledgement of Receipt of Materials									
Printed/Typed Name ALDES BROUSSARD						Signature Alde Broussard		Month Day / Year 12/13/90	
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed/Typed Name						Signature		Month Day / Year	
19. Discrepancy Indication Space DEQ052340									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.									
Printed/Typed Name M. J. J. J.						Signature M. J. J. J.		Month Day / Year 12/13/90	

EPA Form 100-22 (Rev. 9-90) WHITE - DEQ GREEN - Generator, YELLOW - ISORF, BLUE - Transporter 2, PINK - Transporter 1, GOLD - Generator

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FA (en) 1203 (En) 9M WHITE - (EO GREEN - General YELLOW - ISORE BLUE - Transports 2 PINK - Transports 1 GOLD - General 14 11 10 9 8 7 6 5 4 3 2 1

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST NO 015088

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Form Approved OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. LA D 0 7 9 4 6 4 0 9 5		Manifest Document No. 2172		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.							
3. Generator's Name and Mailing Address GSX RECOVERY SYSTEMS INC. HWY 1112 CROWLEY LA 70526						A. State Manifest Document Number 015088									
4. Generator's Phone (318) 783-2624						B. State Generator's ID									
5. Transporter 1 Company Name GSX RECOVERY SYSTEMS INC.						C. State Transporter's ID									
6. US EPA ID Number LA D 0 7 9 4 6 4 0 9 5						D. Transporter's Phone (318) 783-2624									
7. Transporter 2 Company Name						E. State Transporter's ID									
8. US EPA ID Number						F. Transporter's Phone									
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380						G. State Facility's ID									
10. US EPA ID Number LA D 9 8 1 0 5 7 7 0 6						H. Facility's Phone (504) 631-3161									
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)						12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol		15. Waste No.			
a. Waste Flammable Liquid, K.O.S. Flammable Liquid UN1993 RQ, (P001, F001, F002, F003, F005, K085,) (HEXANE, MEX)						2001 TT		5400		G		D001, F001, F002, R, F003, F005			
b.												R			
c.												R			
d.												R			
J. Additional Descriptions for Materials Listed Above I. Additional Waste Codes: K085 A. MSP-HSC0-8904681						K. Handling Codes for Wastes Listed Above									
15. Special Handling Instructions and Additional Information RUBBER GLOVES, RESPIRATORS, SAFETY GLASSES, FOAM AND/OR CO. FOR FIRE CONTROL. CONTAIN SPILLAGE. IN THE EVENT OF CONTINGENCY, CALL LOUISIANA STATE POLICE HAZARDOUS MATERIALS IF UNABLE TO DELIVER, RETURN TO GENERATOR UNIT (504) 885-6505.															
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.															
Printed/Typed Name Edmund J. Hook						Signature [Signature]						Month Day Year 12/13/91			
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name John V. Moreau						Signature [Signature]		Month Day Year 12/13/91	
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name						Signature		Month Day Year	
19. Discrepancy Indication Space						DEQ052342									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.															
Printed/Typed Name G. W. H. H. H.						Signature [Signature]						Month Day Year 12/13/91			

IFATE 1202 (Rev. 9/91) WHITE - Generator GREEN - Generator YELLOW - Transporter 2 BLUE - Transporter 1 PINK - Generator 1 GOLD - Generator 2 INFORMATION USE ONLY

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REQUEST
Hazardous Waste
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24331

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE
MANIFEST N° 015083

Please print or type. (Form designed for use on either (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039. Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. LA D 07 9 4 6 4 0 9 5	Manifest Document No. 015083	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address GSX RECOVERY SYSTEMS INC. IRBY 1112 CROWLEY LA 70526			A. State Manifest Document Number 015083		
4. Generator's Phone (318) 783-2624			B. State Generator's ID		
5. Transporter 1 Company Name GSX RECOVERY SYSTEMS INC.			6. US EPA ID Number LA D 07 9 4 6 4 0 9 5		C. State Transporter's ID
7. Transporter 2 Company Name			8. US EPA ID Number		D. Transporter's Phone 318-783-2624
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380			10. US EPA ID Number LA D 9 8 1 0 5 7 7 0 6		E. State Transporter's ID
					F. Transporter's Phone
					G. State Facility's ID
					H. Facility's Phone (504) 631-3161
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)			12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol
a. Waste Flammable Liquid, R.O.S. Flammable Liquid UN1993 RQ, (D001, F001, F002, F003, F005, K085,) (HEXANE, NER)			0, 0, 1 T, T	5, 4, 0, 0	G
b.					
c.					
d.					
J. Additional Descriptions for Materials Listed Above I. Additional Waste Code: K085 A. MSP-IISCO-8904681			K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information RUBBER GLOVES, RESPIRATORS, SAFETY GLASSES, FOAM AND/OR CO ₂ FOR FIRE CONTROL. CONTAIN SPILLAGE. IN THE EVENT OF CONTINGENCY, CALL LOUISIANA STATE POLICE HAZARDOUS MATERIALS IF UNABLE TO DELIVER, RETURN TO GENERATOR (504) 025-6555					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name LEONARD J. Dupuis			Signature [Signature]		Month Day Year 10/14/91
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name ALICE PRUSCHARD			Signature [Signature]		Month Day Year 10/14/91
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name ALICE PRUSCHARD			Signature [Signature]		Month Day Year 10/14/91
19. Discrepancy Indication Space DE0052343					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name DAN RAMON					
Signature [Signature] Month Day Year 10-13-91					

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST 010776

Please print or type. (Form designed for use on 12-pitch typewriter.)

Form Approved OMB No. 1050-0008 Expires 1-30-93

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. <u>ETIP000011/10/21/07/18</u>		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address <u>Ridges Mfg. Outlet</u> <u>146 Valley Street</u> <u>Williamantic, CT 06224</u>		4. Generator's Phone <u>(203) 1423-0305</u>		5. Transporter 1 Company Name <u>Oil Recovery</u>		6. US EPA ID Number <u>MA1D9181215415H1316</u>	
7. Transporter 2 Company Name		8. US EPA ID Number		9. Designated Facility Name and Site Address <u>MARINE SHALE PROCESSORS, INC.</u> <u>HIGHWAY 90 EAST</u> <u>MORGAN CITY, LOUISIANA 70380</u>		10. US EPA ID Number <u>LA D 9 8 1 0 5 7 7 0 6</u>	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) <u>RD, Hazardous Waste, Solid, n.o.s.</u> <u>CRM-E NA91E9 1/45.4 (D008)</u>		12. Containers No. <u>115</u> Type <u>DM</u>		13. Total Quantity <u>1105.010</u>		14. Unit <u>P</u>	
15. Special Handling Instructions and Additional Information <u>Containing Purity</u> <u>R# 41476D</u> <u>IF UNABLE TO DELIVER, RETURN TO GENERATOR</u> <u>LEE BROWNING Lee Browning</u>		16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.		17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name <u>ERNEST L. BESSONNETTE</u> Signature <u>Ernest L. Bessonnette</u> Month Day Year <u>06/29/90</u>		18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name _____ Signature _____ Month Day Year _____	
19. Discrepancy Indication Space <u>DEQ052344</u>		20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name <u>Gail Leonard</u> Signature <u>Gail Leonard</u> Month Day Year <u>09/29/90</u>		21. Additional Descriptions for Materials Listed Above <u>NE91RMFE/9002693</u>		22. Handling Codes for Wastes Listed Above <u>D008</u>	

EPA Form 1700-22 (Rev. 8/88)

WHITE, RED, GREEN, YELLOW, PINK, BLUE

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JUN 11 1990

MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

For MSP Use Only

NES/RMFG/9002693

Approval Code 9002693

A. Generator Information

Generator Name Ridges mfg outlet
Site Address 146 Valley Street
City Williamantic State CT Zip Code 06226
Generator Contact Norm Horn
Title Owner
Telephone No. (203) 423-0305
Facility EPA ID No. CT P00011012

B. Customer Information

Company Name GSX Northeast
Contact B Leonardo
Address 221 Sutton Street
N. Andover, MA 01845
Telephone No. (978) 683-1002
For Customer Use

C. Regulatory Information

☒ RCRA Regulated ☐ Land Ban ☐ Non-Regulated EPA Waste Code(s) D008

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%.)

	MIN	MAX
Soil		799 %
benzene		510 ppm
toluene		755 ppm
ethylbenzene		3260 ppm
chloroform		324 ppm
1,1,2,2 tetrachloroethylene		65 ppm

Common Name of Waste:

E. General Characteristics

Color Brown
Odor: ☒ None ☐ Mild ☐ Strong
☐ Liquid ☐ Sludge ☒ Solid ☐ Powder
Phases ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:
Radioactive? Y ☒ N ☐ Polymerizable? Y ☒ N ☐
Infectious? Y ☒ N ☐ Pyrophoric? Y ☒ N ☐
Water Reactive? Y ☒ N ☐ Explosive? Y ☒ N ☐

G. Physical/Chemical Properties

Ash (list actual Wt %)	Water (Wt %)	Specific Gravity	Viscosity (for bulk liquids only) list actual in centipoise	Total Suspended Solids (Wt % for bulk liquids only)	pH
<u>77.5%</u>	☒ < 1 ☐ 5-10	☐ < 0.8 ☐ 1.2-1.4		☐ 5-20	☐ 2-6 ☒ 6-10
BTU's per lb	☐ 1-5 ☒ > 10	☐ 0.8-1.0 ☒ 1.4-1.7		☒ > 20	☐ 10-12.5
(list actual value)	list actual	☐ 1.0-1.2 ☐ > 1.7	cp	list actual	☒ < 2 or > 12.5
<u>~ 3000</u>		list actual			list actual

Flash Point (closed cup)

☐ < 100°F ☒ > 200°F
☐ 100°-140°F ☐ _____°F
☐ 140°-200°F actual

Sulfur (Wt %)

☒ < 5
if > 5 list actual value

Halogens (Wt %)

	< 1	1-5	5-10	> 10 list actual Wt %
☐ Iodine	☒	☐	☐	
☐ Bromine	☒	☐	☐	
☐ Chlorine	☒	☐	☐	
☐ Fluorine	☒	actual	Wt %	

Metals: EP Toxicity Test (MG/L)

Arsenic (As) 0
Barium (Ba) 0
Cadmium (Cd) 29 ppm
Chromium (Cr) 0
Lead (Pb) 96 ppm
Mercury (Hg) 0.03 ppm

Selenium (Se) 0
Silver (Ag) 0
Copper (Cu) 0
Nickel (Ni) 0
Zinc (Zn) 0

Organics (ppm)

Endrin 0
Lindane 0
Methoxychlor 0
Toxophene 0
2,4-D 0
2,4,5-TP (Silvex) 0

If material contains the following compounds, indicate actual ppm:

PCB 0
Cyanides 0
Sulfides 0
Dioxin 0

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DATE
PLACE

MSD054

2436

Tri-State Environmental Testing, Inc.

Full Service Analytical Laboratory
12 Greenhill Road
Johnston, Rhode Island 02919
(401) 946-6740

CERTIFICATE OF ANALYSIS

Report To:

Date Received: 11-7-89

Date Reported: 11-10-89

Purchase Order No.:

T.S.E.T. Log No. 110793S

Sample Description: Sludge - EP Tox Sample

Subject sample has been analyzed by our laboratory with the following results:

PARAMETER

EP Tox Metals

Lead
Cadmium
Silver
Chromium
Barium
Mercury
Selenium
Arsenic

RESULTS

96.54 mg/L
0.29 mg/L
ND*
ND*
ND*
0.003 mg/L
ND*
ND*

ND* = <MDL (Method Detection Limit)

Methodology: Test Method for Evaluating Solid Waste Physical/
Chemical Methods US EPA SW-846 September 1986.

If you have any questions regarding this work or if we may be of further assistance, please contact us.

Approved by *James A. Tarricone*
James A. Tarricone

DEQ052346

US V. MSP Releasable
PRODUCED BY MSP 4/93
BOX 95 REQUEST
Written to Headquarters
March 27, 1993

MSDO 54

LEF

Generating Process: This soil is from a tank removed at a gas station. The tank contained Gas (that's where solvents are from) and oil (lead)

I. Required Protective Equipment and Procedures

Please attach all materials safety data sheets, logistic sketches, analysis reports, handling precautions, additional hazardous support information, data and comments.

Analysis attached.

J. Shipping Information

DOT Hazardous Material Y N
Proper Shipping Name

Hazardous Waste Solid, n.o.s.

DOT LD. No.

(circle one)
UN/HA

NA 9184

Hazard Class ORM-E

BQ

Anticipated Volume

150 Drums

Go!

Yds

163

☐ Bulk? 

☐ Roll? no

Container Size 174 x 55

Container Type

Per ☒ One time☐ Week☐ Month

Q Year

☐ Other _____

Certification

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 willful omission of composition or properties exist, and that all known or suspected hazards have been disclosed, I certify that the materials tested are representative of all material described by this Materials Characterization Data Sheet.

1. Thom. M. Van

² NORMAN M. HORN

Generator's Signature

Name (Type or Print)

3. 6/1/90

4. *Older*

Date:

Tide

Recertification Requirements

This Materials Characterization Data Sheet must be recertified (i.e. updated) twelve months from the date signed and thereafter recertified on an annual basis. In addition, if the characteristics of the material change or if the generating process changes, a new MCDS must be submitted for approval prior to shipment.

DEQ052347

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Tri-State Environmental Testing, Inc.

Full Service Analytical Laboratory
12 Greenhill Road
Johnston, Rhode Island 02919
(401) 946-6740

CERTIFICATE OF ANALYSIS

Report To:

Date Received: 11-22-89

Date Reported: 11-22-89

Purchase Order No.:

T.S.E.T. Log No.: 112291S

Sample Description: Soil

Subject sample has been analyzed by our laboratory with the following results:

PARAMETER

RESULTS

Flash Point pm/cc

>200° F

Methodology: Test Method for Evaluating Solid Waste Physical/Chemical Methods US EPA SW-846 September 1986.

If you have any questions regarding this work or if we may be of further assistance, please contact us.

Approved by

James A. Tarricone
James A. Tarricone

DEQ052348

U.S. V. MAP
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RELEASABLE
DO NOT
FORGET A
MICROFILM
11-22-89
11-22-89

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Tri-State Environmental Testing, Inc.

Full Service Analytical Laboratory
12 Greenhill Road
Johnston, Rhode Island 02919
(401) 946-6740

CERTIFICATE OF ANALYSIS

Report To:

Date Received: 09-28-89

Date Reported: 10-18-89

Purchase Order No.:

T.S.E.T. Log No. 101692P

Sample Description: VOC and EP Tox Sample

Subject sample has been analyzed by our laboratory with the following results:

<u>PARAMETER</u>	<u>RESULTS</u>
VOC 8240	
Benzene	510 ppm
Toluene	755 ppm
Ethylbenzene	3260 ppm
Chloroform	224 ppm
1,1,2,2 Tetrachloroethylene	65 ppm
Metals Total	
Lead	14195.69 mg/kg
Cadmium	77.90 mg/kg
Silver	ND*
Chromium	36.41 mg/kg
Barium	5552.15 mg/kg
Mercury	0.16 mg/kg
Selenium	ND*
Arsenic	1.25 mg/kg

ND* = <MDL (Method Detection Limit)

Methodology: Test Method for Evaluating Solid Waste Physical/
Chemical Methods US EPA SW-846 September 1986.

If you have any questions regarding this work or if we may be of further assistance, please contact us.

Approved by

James A. Tarricone
James A. Tarricone

DEQ052349

US V. REP
PRODUCED BY MAP 9/92
REQUEST
VICTIM'S ATTORNEY
MARTIN, AND S.

MSD054

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Int-State Environmental Testing, Inc.

Full Service Analytical Laboratory

12 Greenhill Road

Johnston, Rhode Island 02919

(401) 946-6740

CERTIFICATE OF ANALYSIS

Report To:

~~XXXXXXXXXX~~
~~XXXXXXXXXX~~
~~XXXXXXXXXX~~

Date Received: 9-25-89

Date Reported: 9-28-89

Purchase Order No.:

T.S.E.T. Log No. 092591P

Sample Description: Oil

Subject sample has been analyzed by our laboratory with the following results:

PARAMETER

Total Halogenation

Flash Point pm/cc

PCB

Metals Total

Lead

Cadmium

Chromium

Barium

Arsenic

RESULTS

1.59%

113.9° F

24.41 mg/kg as Arochlor 1260

14958.19 mg/kg

79.11 mg/kg

34.30 mg/kg

5387.93 mg/kg

1.27 mg/kg

Methodology: Test Method for Evaluating Solid Waste Physical/
Chemical Methods US EPA SW-846 September 1986.

If you have any questions regarding this work or if we may be of further assistance, please contact us.

Approved by

James A. Tarricone
James A. Tarricone

DEQ052350

MAR 14 '90 9:34

PAGE 005

MSD054

24401

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST 011687

Form Approved OMB No 2050-0009, Expired 9-30-91

Please print or type. (Form designed for use on 12-pitch typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. LA12 ID 10 10 19 10 11 15 13 18 19 10 10 10 10 11		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address ROMIC CHEMICAL CORPORATION SOUTHWEST 6760 W ALLISON RD CHANDLER AZ 85226				A. State Manifest Document Number (if applicable)			
4. Generator's Phone (602) 961-1040				B. State Generator's ID Number			
5. Transporter 1 Company Name RANGER TRANSPORTATION				C. State (transporter's) ID Number			
6. US EPA ID Number F L D 19 18 10 10 13 13 17 17				D. State Transporter's ID Number			
7. Transporter 2 Company Name				E. Transporter's Phone			
8. US EPA ID Number				F. State Facility's ID Number			
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380				G. State Facility's ID Number LA 12 ID 9 8 10 5 7 7 0 6			
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)				12. Containers		13. Total Quantity	
a. WASTE FLAMMABLE SOLID, N.O.S., FLAMMABLE SOLID (EPA D001) UN1325				No. Type		Unit Wt/Vol	
				0 8 8 D M		6 1 6 0 0 P	
b.							
c.							
d.							
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above		Waste No.	
RECYCLE / REUSE						D001 R	
MSPP S80/S80 9002733							
15. Special Handling Instructions and Additional Information WEAR CHEMICAL HANDLING ATTAIN - GLOVES, GOGGLES, PROPER RESPIRATOR. IN CASE OF SPILL, DO NOT FLUSH WITH WATER, CONTAIN & PICK UP FOR PROPER DISPOSAL AT AN EPA AUTHORIZED FACILITY. IF UNABLE TO DELIVER, RETURN TO GENERATOR							
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.							
Printed/Typed Name JACK MCCLARY				Signature Neil Cannon		Month Day Year 06/21/90	
17. Transporter 1 Acknowledgement of Receipt of Materials				Signature Robert Massaro		Month Day Year 06/21/90	
Printed/Typed Name Robert Massaro				Signature		Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials				Signature		Month Day Year	
Printed/Typed Name				Signature		Month Day Year	
19. Discrepancy Indication Space DEQ052351							
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.							
Printed/Typed Name Jeanie Labrante				Signature Jeanie Labrante		Month Day Year 06/21/90	

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REQUEST
Under the provisions of the
National Archives

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MAY 18 1990

MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

For MSP Use Only SSO/SSO/9002733
Approval Code 9002733

Generator Name ROMIC CHEMICAL CORP. SOUTHWEST
Site Address 6760 W. ALLISON ROAD
City CHANDLER State AZ Zip Code 85226
Generator Contact JACK MCCLARY
Title GENERAL MANAGER
Telephone No. (602) 961-1040
Facility EPA ID No. AZD 009015389

Company Name ROMIC CHEMICAL CORP. SOUTHWEST
Contact JACK MCCLARY
Address 6760 W. ALLISON ROAD
CHANDLER, ARIZONA 85226
Telephone No. (602) 961-1040
For Customer Use

RCRA Regulated ☒ Non-Regulated ☐ EPA Waste Code(s) D001

PRO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%.

	MIN	MAX
LACQUER THINNER	10	28
RESINS	0	10
PAINT	5	15
FLOOR DRY (ABSORBANTS)	20	37
OIL	0	10

Common Name of Waste: STILL BOTTOMS

Color: BROWN
Odor: ☐ None ☒ Mild ☐ Strong
☒ Liquid ☐ Sludge ☒ Solid ☐ Powder
Phases: ☐ Single Layer ☒ Double Layer ☐ Multi-Layer

Is the waste:
Radioactive? Y ☒ N ☐ Polymerizable? Y ☒ N ☐
Infectious? Y ☒ N ☐ Pyrophoric? Y ☒ N ☐
Water Reactive? Y ☒ N ☐ Explosive? Y ☒ N ☐

Ash (Est actual Wt %)	Water (Wt %)	Specific Gravity	Viscosity	Total Suspended Solids	pH
<u>18</u>	☐ <1 ☐ 1.5-10	☐ <0.8 ☐ 1.2-1.4	(for bulk liquids only)	(Wt % for bulk liquids only)	☐ 2-6 ☒ 6-10
BTUs per lb	☒ 1-5 ☐ >10	☐ 0.8-1.0 ☐ 1.4-1.7	list actual in parentheses	☐ 5-20 ☒ >20	☐ 10-12.5
(list actual value)	list actual	☒ 1.0-1.2 ☐ >1.7	<u>5000</u> cp	list actual	☐ <2 or >12.5
<u>10,000</u>		list actual			list actual

Flash Point (closed cup)

☒ < 100°F ☐ > 200°F
☐ 100°-140°F ☒ 85 °F
☐ 140°-200°F

Sulfur (Wt %)

☒ < 5
☐ > 5 list actual value

Halogens (Wt %)

☐ Iodine ☐ 0 ☐ 0
☐ Bromine ☐ 0 ☐ 0
☒ Chlorine ☒ 0 ☐ 0
☒ Fluorine 50 PPM actual Wt %

☒ > 10 list actual Wt %

NONE SUSPECTED

Metals: EP Toxicity Test (MAG/L)

Arsenic (As) < .01
Barium (Ba) .2
Cadmium (Cd) .22
Chromium (Cr) .12
Lead (Pb) .25
Mercury (Hg) .11

Selenium (Se) .019

Silver (Ag) < .01

Copper (Cu) < .01

Nickel (Ni) < .01

Zinc (Zn) < .01

Organics (ppm)

Endrin 0 NONE SUSPECTED

Heptachlor 0 "

Methoxychlor 0 "

Toxaphene 0 "

2,4-D 0 "

2,4,5-TP (Silver) 0 "

If material contains the following

compounds, indicate actual ppm

PCB 0 NONE SUSPECTED

Cyanides 0 "

Sulfides 0 "

Dioxin 0 "

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U.S. V. MSP
PRODUCED BY MSP 9/93
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LABORATORY
RECEIVED
RECEIVED

MSD054

2442

DE0052352

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THIS DATA SHEET IS FOR MATERIAL PREVIOUSLY APPROVED BUT NOT RECERTIFIED BEFORE THE DEADLINE 5/4/90. REFERENCE MSP CODE SSO/SSO 8803488

Generating Process: SOLVENT DISTILLATION RESIDUES/SLUDGES.

Please attach all material safety data sheets, logistic sketches, analysis reports, handling precautions, additional hazardous support information, data and comments.
STANDARD PROTECTIVE CLOTHING, GLOVES, BOOTS, SAFETY GLASSES, RESPIRATORS (BLACK NIOSH) ORGANIC VAPORS.

DOT Hazardous Material ☒ N

Proper Shipping Name

WASTE FLAMMABLE SOLID N.O.S.

DOT ID No. (circle one)
UN 1325 ☒ NA

RC

Hazard Class
FLAMMABLE

Anticipated Volume

15,000 GAL.

☒ Gal

Yds

Lbs

☐ Bu

☐ Rod

Container Size
55 GAL.

Container type
55 GAL DRUMS

For

☐ One time

☐ Week

☒ 1 Month

☐ Year

☐ Other

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 willful omission of composition or properties exist, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all material described by this Materials Characterization Data Sheet.

1.

Generator's Signature

2.

JACK MCCLARY

Name (Type or Print)

3.

MAY 16, 1990

Date

4.

GENERAL MANAGER

Recertification Requirements

This Materials Characterization Data Sheet must be recertified (i.e. updated) twelve months from the date signed and thereafter recertified on an annual basis. In addition, if the characteristics of the material change or if the generating process changes, a new MCDS must be submitted for approval prior to shipment.

MSP Form 1040 II Rev. 1089

DEQ052353

MSD054

2443 L

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OS V. MSP
PRODUCED BY MSP 9/93
RECEIVED
UNIVERSITY MICROFILMS
SERIALS ACQUISITION
MATERIALS

MSD054

2444 F

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE ✓
MANIFEST NO 015110
Form Approved OMB No. 2050-0039 Expires 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's Name and Mailing Address
GSX RECOVERY SYSTEMS INC. ✓
HWY 1112 CROWLEY LA 70526 ✓
4. Generator's Phone (318) 783-2624 ✓

2. Generator's US EPA ID No. LA1A10171914161410191517171716
Manifest Document No. 015110

3. State Manifest Document Number 015110

5. Transporter 1 Company Name GSX RECOVERY SYSTEMS INC. ✓
6. US EPA ID Number LA1A101719141614101915
7. Transporter 2 Company Name
8. US EPA ID Number

9. Designated Facility Name and Site Address
MARINE SHALE PROCESSORS, INC.
HIGHWAY 90 EAST
MORGAN CITY, LOUISIANA 70380 ✓
10. US EPA ID Number LA1A101719141614101915

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)
a. Waste Flammable Liquid, N.O.S.
Flammable Liquid UN1993
RO. (D001, F001, F002, F003, F005, K085,) (HEXANE, MEK)
12. Containers No. Type 0 0 1 T T 13. Total Quantity 5 4 0 0 14. Unit Wt/Vol G 15. Waste No. D001, F001, F002, R, F003, F005
b. R
c. R
d. R

16. Additional Descriptions for Materials Listed Above RECYCLE / REUSE
I. Additional Waste Codes: K085 ✓
A. MSP-HSC0-8904681

17. Special Handling Instructions and Additional Information
RUBBER GLOVES, RESPIRATORS, SAFETY GLASSES, FOAM AND/OR CO₂ FOR FIRE CONTROL. CONTAIN SPILLAGE. IN THE EVENT OF CONTINGENCY, CALL LOUISIANA STATE POLICE HAZARDOUS MATERIALS IF UNABLE TO DELIVER, RETURN TO GENERATOR (504) 385-7005

18. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

19. Printed/Typed Name Signature Month Day Year
Edmund Hanks 10/20/92

20. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Month Day Year
JAMES DICKINSON 10/20/92

21. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name Signature Month Day Year

22. Discrepancy Indication Space DEQ052354

23. Facility Owner or Operator. Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name Signature Month Day Year
Dan Orsmer 10/20/92

24. EPA Form 350 (Rev. 9-88) WHITE - DEQ, GREEN - Generator, YELLOW - TSD, BLUE - Transporter 1, PINK - Transporter 2, GRI - Generator

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST No. 015091

Form Approved, OMB No. 2050-0038, Expires 9-30-91

Please print in type. (Form designed for use on office (12-pin) typewriter.)

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. L A D 0 7 9 4 6 4 0 9 5		Manifest Document No. 11577		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address GSX RECOVERY SYSTEMS INC. HWY 1112 CROWLEY LA 70526		4. Generator's Phone (318) 783-2624		5. Transporter 1 Company Name GSX RECOVERY SYSTEMS INC.		6. US EPA ID Number L A D 0 7 9 4 6 4 0 9 5		7. Transporter 2 Company Name	
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number L A D 9 8 1 0 5 7 7 0 6		11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)		12. Containers No. Type		13. Total Quantity	
a. Waste Flammable Liquid, N.O.S. Flammable Liquid UN1993 RQ, (D001, F001, F002, F003, F005) (HEXANE, MEK)				118 D M		13741		G	
b. Waste Flammable Solid, N.O.S. Flammable Solid UN1325 RQ, (D001, F001, F002, F003, F005) (HEXANE, MEK)				116 D M		1881		G	
c.								R	
d.								R	
J. Additional Descriptions for Materials Listed Above MSR-HSCO-8902889-7002747-6x-85gnt-600-packs MSR-HSCO-8902888		RECYCLE / REUSE		K. Handling Codes for Wastes Listed Above					
15. Special Handling Instructions and Additional Information RUBBER GLOVES, RESPIRATORS, SAFETY GLASSES, FOAM AND/OR CO ₂ FOR FIRE CONTROL. CONTAIN SPILLAGE. IN THE EVENT OF CONTINGENCY, CALL LOUISIANA STATE POLICE HAZARDOUS MATERIALS IF UNABLE TO DELIVER, RETURN TO GENERATOR UNIT (504) 925-6595.									
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.									
Printed/Typed Name Robt. J. Murphy		Signature Robt. J. Murphy		Month Day Year 11/12/91					
17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Eric J. Linn		Signature Eric J. Linn		Month Day Year 11/12/91					
18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year					
19. Discrepancy Indication Space DER052355									
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name Earl Leonard									
Signature Earl Leonard		Month Day Year 11/20/91							

EPA Form 3541-22 (Rev. 9-88)

WHITE - DEQ, GREEN - Generator, YELLOW - TSDRF, BLUE - Transporter 2, PINK - Transporter 1, GOLD - Generator

INTERNATIONAL CODE

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U.S. V. MSP
PRODUCED BY MSP 9/93
REPORT #
Waste Hazardous Materials
Manifest File

MSD054

2445

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST NO. 015109

Form Approved OMB No. 2050-0039 Expires 8-30-91

1. Generator's Name and Mailing Address GSX RECOVERY SYSTEMS INC. HWY 1112 CROWLEY LA 70526		2. Page 1 of 1		3. Information in the shaded areas is not required by Federal law.	
4. Generator's Phone (318) 783-2624		5. State Manifest Document Number 015109		6. State Generator's ID	
5. Transporter 1 Company Name GSX RECOVERY SYSTEMS INC.		6. US EPA ID Number L A P P 7 P A P P P P P		7. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		8. Transporter's Phone 318-783-2624	
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number L A D 9 8 1 0 5 7 7 0 6		9. State Facility's ID	
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) Waste Flammable Liquid, N.O.S. Flammable Liquid UN1993 RQ, (D001, F001, F002, F003, F005, K085,) (HEXANE, NEK)		12. Containers No. Type 0 0 1 T		13. Total Quantity 5 4 0 0	
				14. Unit Wt/Vol G	
				15. Waste No. D001, F001 F002, R F003, F005	
				R	
				R	
				R	
16. Additional Descriptions for Materials Listed Above I. Additional Waste Code: K085 A. MSP-HSC0-8904681		17. Handling Codes for Wastes Listed Above			
18. Special Handling Instructions and Additional Information RUBBER GLOVES, RESPIRATORS, SAFETY GLASSES, FOAM AND/OR CO₂ FOR FIRE CONTROL. CONTAIN SPILLAGE. IN THE EVENT OF CONTINGENCY, CALL LOUISIANA STATE POLICE HAZARDOUS MATERIALS IF UNABLE TO DELIVER, RETURN TO GENERATOR IN IT (504) 025-6505					
19. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
20. Printed/Typed Name Edmund Hanke		21. Signature <i>Edmund Hanke</i>		22. Month Day Year 10/21/90	
23. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name GREG TSTRE		24. Signature <i>Greg Tstre</i>		25. Month Day Year 10/21/90	
26. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		27. Signature		28. Month Day Year	
29. Discrepancy Indication Space DEQ052356					
30. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19. Printed/Typed Name TERRIE LABRANNE					
31. Signature <i>Terrie Labranne</i>		32. Month Day Year 10/21/90			

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U.S. MSP
PRODUCED BY MSP-9/93
REQUEST
Hazardous Materials
Manifest

MSD054

2446



MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504 465-3310

MAY 31 1990

For MSP Use Only (013 Approval 1 10902089)

Approval Code 9002947

HSCD/HSCD/9008947

A. General Information

Company Name GSX RECOVERY SYSTEMS, INC.
Address LA 1112
City CROWLEY State LA Zip Code 70526
Generator Contact MARK SAUNDERS
Title TECHNICAL SERVICES MGR.
Telephone No. (318) 783-2624
Facility EPA ID No. LAD079464095

B. Customer Information

Company Name SAME
Contact
Address
Telephone No. 1
For Customer Use

C. Regulatory Information

☒ RCRA Regulated ☒ Land Ban ☐ Non-Regulated EPA Waste Code(s) D001/D004/D005/D006/D007/D008/D010/D011/F001/F002/F003/F005

D. Chemical Composition

NO TRADE NAMES - Samples must not exceed 20% Total in minimum column must be greater than or equal to 100%

	MIN	MAX
PETROLEUM HYDROCARBONS	20	35
SOLVENTS (MEK, XYLENE, TOLUENE, 1,1,1 TRICHLOROETHANE, ETC.)	20	35
ASPHALT PITCH	10	20
PAINT PIGMENTS	10	25
ORGANIC RESINS	10	25
WATER	10	15

Common name of waste:

E. General Characteristics

Color BROWN
Odor ☐ None ☒ Mild ☐ Strong
☒ Liquid ☒ Sludge ☐ Solid ☐ Powder
Phase ☐ Single Layer ☒ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:
Radioactive? Y ☒ N Polymerizable? Y ☒ N
Infectious? Y ☒ N Pyrophoric? Y ☒ N
Water Reactive? Y ☒ N Explosive? Y ☒ N

G. Physical/Chemical Properties

Ash (list actual Wt %) 10
Water (Wt %) ☐ < 1 ☒ 5-10
BTU's per lb (list actual value) 11,000
Specific Gravity ☐ < 0.8 ☐ 1.2-1.4
☒ 0.8-1.0 ☐ 1.4-1.7
☐ 1.0-1.2 ☐ > 1.7
list actual .90
Viscosity (for bulk liquids only) _____ cp
list actual in centipoise _____
Total Suspended Solids (Wt % for bulk liquids only) ☐ 5-20
☒ > 20
list actual 40
pH ☐ 2-6 ☒ 6-10
☐ 10-12.5
☐ < 2 ☒ > 12.5
list actual 7

Flash Point (closed cup)

☒ < 100°F ☐ > 200°F
☐ 100°-140°F ☐ _____ °F
☐ 140°-200°F actual

Sulfur (Wt %)

☒ < 5
if > 5 list actual value _____

Metallic EP Toxicity Test (MG/L)

Arsenic (As) < 50
Barium (Ba) < 1000
Cadmium (Cd) < 10
Chromium (Cr) < 100
Lead (Pb) < 100
Mercury (Hg) < 0.2

Selenium (Se) < 10
Silver (Ag) < 50
Copper (Cu) < 1000
Nickel (Ni) < 1000
Zinc (Zn) < 1000

Halogens (Wt %) < 1 1-5 5-10 if > 10 list actual Wt %
☒ Iodine ☐ ☐
☒ Bromine ☐ ☐
☐ Chlorine ☒ ☐
☐ Fluorine < 1 actual Wt %

Organics (ppm)
Endrin 0
Lindane 0
Methoxychlor 0
Toxaphene 0
2,4-D 0
2,4,5-TP (Silvex) 0

If material contains the following compounds, indicate actual parts:
PCB 0
Cyanides 0
Sulfides 0
Dioxin 0

DE0052357

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US V. MSP
PRODUCED BY MSP: 9/93
REQUEST 1
DATE: 11/11/93
NAME: HSCD/HSCD/9008947

MSD054

2447

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DE V. MSP Released by MSP 9/93

Box 15
Request #
UN1993
UN1993
UN1993

MSD054

29481

H. Notes, Additional Information or Special Handling Instructions

I. Required Protective Equipment and Procedures

Please attach all materials safety data sheets, logistic sketches, analysis reports, handling precautions, additional hazardous support information, data and comments

Generating process:

J. Shipping Information

DOT Hazardous Material ☒ N

(circle one)

Proper Shipping Name

WASTE FLAMMABLE LIQUID, N.O.S.

DOT I.D. No.

UN1993

Hazard Class

FLAMMABLE LIQUID

RQ

Anticipated Volume

100

Drums

Gal

Yds

Lbs

☐ Bulk

☐ Rail

Container Size

55

85

Container Type

DM

Per

☐ One time

☒ Week

☐ Month

☐ Year

☐ Other

Certification

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 willful omission of composition or properties exist, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all material described by this Materials Characterization Data Sheet.

1. Mark Saunders

2. Mark Saunders

Generator's Signature

Name (Type or Print)

3. 5/23/90

4. TECHNICAL SERVICES MANAGER

Date

Title

Recertification Requirements

This Materials Characterization Data Sheet must be recertified (i.e. updated) twelve months from the date signed and thereafter recertified on an annual basis. In addition, if the characteristics of the material change or if the generating process changes, a new MCDS must be submitted for approval prior to shipment.

DEQ052358

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE/REUSE

MANIFEST 010941

Please print or type. (Form designed for use on office (12-pitch) typewriter.)

Form Approved OMB No. 2050-0050, Expire 9-30-91

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. TX 0908062403509299		Manifest Document No.		2. Page 1 of 1		Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address HEAT ENERGY ADVANCED TECHNOLOGY, INC. 4460 SINGLETON BLVD DALLAS TX 75212		4. Generator's Phone (214) 637-6434		5. Transporter 1 Company Name BEALINE SERVICE COMPANY		6. US EPA ID Number TX 09030909859		7. Transporter 2 Company Name	
9. Designated Facility Name and Site Address MARINE SHALE PROCESSORS, INC. HIGHWAY 90 EAST MORGAN CITY, LOUISIANA 70380		10. US EPA ID Number LA 09081057706		11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) a. WASTE FLAMMABLE SOLIDS, WASTE FLAMMABLE SOLIDS, N.O.S. UN1325		12. Containers No. Type 00 D R		13. Total Quantity 4400	
				14. Unit G		15. Waste No. F001, F002 F003 R F005/953010			
J. Additional Descriptions for Materials Listed Above HEA880 4797 2 over pads		K. Handling Codes for Wastes Listed Above		16. Special Handling Instructions and Additional Information !!FLAMMABLE!! KEEP AWAY FROM SOURCES OF IGNITION IF SPILLED CONTACT: TONY CLARK/H.E.A.T., INC. 214-637-6434 OFFICE OR HOME 214-699-9154 IF UNABLE TO DELIVER, RETURN TO GENERATOR		17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Clifford Montrose		Signature [Signature]	
				18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name		Signature		Month Day Year 12-19-90	
19. Discrepancy Indication Space 11A) 953010 is a TEXAS Regulatory Number. (40)		DEC052359		20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. Printed/Typed Name Gina Bassett		Signature [Signature]		Month Day Year 12-19-90	

EPA Form 300 (Rev. 9-80) WHITE - DEQ GREEN - GASKET YELLOW - TENDR BLUE - TENDR BLUE - TENDR BLUE - TENDR BLUE

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OS V. MSP
PRODUCED BY MSP 9/93
RECYCLE/REUSE
WASTE FLAMMABLE SOLIDS, N.O.S. UN1325

MSD054

2449 F

US V. MSP Releasable
 PRODUCED BY MSP 9/93
 BOX #15 REQUEST
 Walter J. HANCOCK, JR.
 Defendant, p. 9-5

MS DO 54

0542

MSP Form 1040-R (November 69)

DEQ052360

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8804141



MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310

For MSP Use Only

Approval Code _____

A. Generator Information

Generator Name HEAT ENERGY ADVANCED TECHNOLOGY, INC.
Site Address 4460 SINGLETON BLVD
City DALLAS State TX Zip Code 75212
Generator Contact PAUL DANG
Title PLANT MANAGER
Telephone No. (214) 637-6434
Facility EPA I.D. No. TXD980624035

B. Customer Information

Company Name HEAT ENERGY ADVANCED TECHNOLOGY, INC.
Contact PAUL DANG
Address 4460 SINGLETON BLVD
DALLAS, TX 75212
Telephone No. (214) 637-6434
For Customer Use _____

C. Regulatory Information

☒ RCRA Regulated ☐ Land Ban ☐ Non-Regulated EPA Waste Code(s) F001, F002, F003, F005

D. Chemical Composition

(NO TRADE NAMES - Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%.)

	MIN	MAX
<u>PAINT PIGMENTS & RESINS, METHYL ETHYL KETONE, METHYL ISO BUTYL KETONE,</u>	<u>90%</u>	<u>95%</u>
<u>MINERAL SPIRITS, TOLUENE, ETHANOL, CELLOSOLVE ACETATE, ISO PROPANOL, ACETONE,</u>		
<u>N-BUTYL ACETATES</u>		

<u>1,1,1-TRICHLOROETHANE, TRICHLOROETHYLENE, PERCHLOROETHYLENE,</u>	<u>1.0%</u>	<u>5%</u>
<u>1,1,2 TRICHLORO, 1,2,2 TRIFLUOROETHANE</u>		

Common Name of Waste: _____

E. General Characteristics

Color: VARIES
Odor: ☐ None ☒ Mild ☐ Strong
☐ Liquid ☐ Sludge ☒ Solid ☐ Powder
Phases ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:

Radioactive?	Y ☒ N	Polymerizable?	Y ☒ N
Infectious?	Y ☒ N	Pyrophoric?	Y ☒ N
Water Reactive?	Y ☒ N	Explosive?	Y ☒ N

G. Physical/Chemical Properties

Ash (list actual Wt %)	Water (Wt %)	Specific Gravity	Viscosity	Total Suspended Solids	pH
<u>15</u>	☐ <1 ☐ 5-10	☐ <0.8 ☐ 1.2-1.4	(for bulk liquids only)	(Wt % for bulk liquids only)	☐ 2-6 ☐ 6-10
BTUs per lb	☒ 1-5 ☐ >10	☒ 0.8-1.0 ☐ 1.4-1.7	list actual in centipoise	☐ 5-20	☐ 10-12.5
(list actual value)	list actual	☐ 1.0-1.2 ☐ >1.7	<u>-NS-</u> cp	☐ >20	if <2 or >12.5
<u>7000</u>		list actual <u>0.996</u>		list actual <u>100% SOLID</u>	list actual <u>7.4</u>

Flash Point (closed cup)	Sulfur (Wt %)	Halogens (Wt %)	if >10 list actual Wt %
☒ <100°F ☐ >200°F	☒ <5 ☐ >5 list actual value	☒ Iodine ☐ ☐ ☐	
☐ 100°-140°F ☐ <u>75</u> °F		☒ Bromine ☐ ☐ ☐	
☐ 140°-200°F actual		☐ Chlorine ☐ ☒ ☐	
		☒ Fluorine ☐ ☐ actual Wt %	

Metals: EP Toxicity Test (PPM/L)

Arsenic (As)	<u><2.0</u>	Selenium (Se)	<u><2.1</u>
Barium (Ba)	<u>1.16</u>	Silver (Ag)	<u><0.1</u>
Cadmium (Cd)	<u><0.1</u>	Copper (Cu)	<u>-NS-</u>
Chromium (Cr)	<u><0.4</u>	Nickel (Ni)	<u>-NS-</u>
Lead (Pb)	<u><0.5</u>	Zinc (Zn)	<u>-NS-</u>
Mercury (Hg)	<u>-NS-</u>		

Organics (ppm)

Endrin	<u>-NS-</u>	If material contains the following compounds, indicate actual ppm:
Lindane	<u>-NS-</u>	
Methoxychlor	<u>-NS-</u>	
Toxaphene	<u>-NS-</u>	
2,4-D	<u>-NS-</u>	
2,4,5-TP (Silvex)	<u>-NS-</u>	
PCB	<u>NONE</u>	
Cyanides	<u>NONE</u>	
Sulfides	<u>NONE</u>	
Dioxin	<u>NONE</u>	

MSD054

2451

DEMO52361

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U.S. V. MAP
PRODUCED BY MAP 9/93
REQUEST
NOTICE: Hazardous Waste
Material Files

MSD054

2452

JUN 09 1989

RECERTIFICATION OF
MATERIAL CHARACTERIZATION DATA SHEET

MSP Approval Code

HEA /HEA /8804797/ 1

Instructions: A copy of the M.C.D.S. to be recertified is attached to this Recertification Form. We ask that you complete the remainder of this form and have it signed by an authorized technical contact.

Return this form with any attachments to: MARINE SHALE PROCESSORS, INC.
Post Office Box 1698
Kenner, LA 70063
Attention: Technical Review

A. GENERAL INFORMATION

Generator Name: HEAT ENERGY ADVANCED TECHNOLOG

Telephone: (214) 637-6434 x.0000

Facility Address: 4400 SINGLETON BOULEVARD

USEPA ID: TX9980621035

DALLAS, TX 75212-0000

Name of Waste: PAINT SLUDGE

Generating Process:

Technical Contact: MR. TOM BERGERON

Title:

B. CHANGES OR ADDITIONS SINCE LAST MCDS PREPARATION

1. Have you obtained any laboratory analysis of this waste? (If yes, attach results) ☐ yes ☒ no
2. Have you changed the raw materials used in the waste generating process? ☐ yes ☒ no
3. Have you changed the waste generating process itself? ☐ yes ☒ no
4. Are you aware of any facts or circumstances which have, or reasonably could have, altered the physical or hazardous characteristics, or chemical composition of the waste? ☐ yes ☒ no
5. Are you aware of any human health effects of exposure to the waste not previously described? ☐ yes ☒ no
6. If you answered "yes" to questions 2, 3, 4, or 5, please provide details below:

IF THERE HAVE BEEN ANY SUBSTANTIAL CHANGES, A NEW MCDS MUST BE SUBMITTED.

SHIPPING INFORMATION

Method of Shipment: ☐ Bulk Liquid ☐ Bulk Solid ☒ Drum (type/size) 55 gal

Anticipated Volume: 4400 Gals. _____ Cubic Yds. _____ Other _____

Per: ☐ One Time ☐ Week ☒ Month ☐ Quarter ☐ Year

RECERTIFICATION

I am an employee of the generator authorized to sign this Recertification. The information provided in the recertified waste profile sheet attached hereto, and the information supplied above, are complete, true and correct.

Name: Tony D. Clark

Signature: Tony D. Clark

Title: VP Operations

Date: 6/2/89

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US V. MSP
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REQUESTED BY
VOLUME 1
PAGE 1

MSD054

2453

MATERIALS CHARACTERIZATION DATA SHEET

HEAT/ICA/8801/191
MSP CODE: _____

MARKETING (504) 767-0984
PLANT (504) 631-3626

JUN 23 1988

COPY

SUBMITTED BY: HEAT ENERGY ADVANCED TECHNOLOGY INC.

Generator Name: HEAT ENERGY ADVANCED TECHNOLOGY INC.
Facility Address: 4400 SHERIDAN BLVD.

Container Size: 55 GALLON DRUM
EPA Waste No. F003, F005

City, State, Zip: DALLAS, TX 75212
Technical Contact: TONY D. CLARK
Title: PLANT MANAGER
Telephone NO. (214) 637-6434
Facility EPA ID #: TXID00624035

Reason: _____
Common Name of Waste: PAINT SLUDGE
Rate of Generation: 240 DRUMS PER MONTH
(Quar) (Units) (Time Interval)
Volume In Storage: 200 DRUMS IN
(Quar) (Units) (Container)

CHEMICAL COMPOSITION

(Totals must add up to 100 %)

PAINT PIGMENTS & RESINS: >90 %
MEX. MINERAL SPIRITS: _____
TOLUENE, NUR. ETHANOL: _____
CELLULOSE ACETATE, 1,2-DIBROMO: _____
ACETONE, N-BUTYL ACETATES: <10 %

Is Waste DOT Hazardous (X) YES () NO
Proper DOT Shipping Name: FLAMMABLE SOLID N.O.S.
Hazard Class: FLAMMABLE ID No. UN1225
Transportation Equipment: BEALINE SERVICES TRACTOR & RIG DRUM VAN
Placarding: FLAMMABLE SOLID
Generating Process: WASTE PAINT SLUDGES, ABSORBENT FROM THE
PUMPING & CONSOLIDATION OF PAINT SLUDGES.

PHYSICAL DESCRIPTION

Physical State () Liquid () Semi-solid (X) Solid
Phases/Layering (X) None () Bilayered () Multilayered
Viscosity (X) High () Medium () Low
Type of Solids () Organic () Inorganic (X) Mixed
Total Solids (wt %) 100 Suspended Solids (wt %) N/A
Btu/lb 7000 % Ash Content 15 WT %
Flash Point (°F) 75 Type: MENSE MARTIN (CLOSED) CUP
Specific Gravity 8.3 LBS PER GALLON
Boiling Point (°C) N/A Freezing Point (°C) N/A
Vapor Pressure (mm Hg @ 21°C) N/A
pH (Aq) 7.4 (Range) 4.0 to 10.0
Total Alkalinity/Acidity (S) N/A
Odor: MILD PAINT ODOR
Color: VARIES

METALS (EP Toxicity Test, mg/l)

Arsenic (As) <0.0 Silver (Ag) <0.1
Barium (Ba) 1.16 Copper (Cu) _____
Cadmium (Cd) <0.1 Nickel (Ni) _____
Chromium (Cr) <0.4 Zinc (Zn) _____
Lead (Pb) <0.5
Mercury (Hg) <0.02
Selenium (Se) 2.1

INORGANICS (mg/l or ppm)

Total CN _____ Bromine _____
Free CN _____ Iodine _____
Sulfide _____ Asbestos _____
Disulfide _____
Sulfite _____
Sulfate _____
Phosphate _____
Fluorine _____
Chlorine 1.802
Chloride _____

ORGANICS (mg/l or ppm)

Endrin N/A Organophosphate N/A
Dibromochlor N/A Hexachlor N/A
Toxaphene N/A
2, 4-D N/A
2, 4, 5-T N/A
Phenol (ics) N/A
PCB N/A
TOC N/A
DOC N/A
COD N/A

HAZARDOUS PROPERTIES

() None
(X) Ignitable () Corrodes Steel () Toxic Vapor
() Reactive () Pyrophoric () Shock Sensitive
() Explosive () Water Reactive () Radioactive
() Biological () Pathogen () Etiological
() Pesticide Residuals
() Other

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

SAFETY GLOVES, GASSES & AIRWAY

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORT, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

CERTIFICATION: 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 omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE: 06/22/88

SIGNATURE: _____

TONY D. CLARK
VP OPERATIONS

MSP FORM 1000 (REV. 2/25/87)

DEQ052363

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2454

MATERIALS CHARACTERIZATION DATA SHEET
MARKETING (504) 767-0984
PLANT (504) 631-3626
HEA/HEA/8804797
MSP CODE: _____
JUN 23 1988

Generator Name HEAT ENERGY ADVANCED TECHNOLOGY INC.
Facility Address 4460 SINGLETON BLVD.

City, State, Zip DALLAS, TX 75212
Technical Contact TONY D. CLARK
Title PLANT MANAGER
Telephone NO. (214) 637-6434 EXT: _____
Facility EPA ID # TXD90024035

CHEMICAL COMPOSITION
(Totals must add up to 100 %)

PAINT PIGMENTS & RESINS	>90	%
HEX. MINERAL SPIRITS		%
TOLUENE, NHEK, ETHANOL		%
CELLOSOLVE ACETATE, ISO BUTYRANOL		%
ACETONE, N-BUTYL ACETATES	<10	%
		%
		%
		%

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	<2.0	Silver (Ag)	<0.1
Barium (Ba)	1.16	Copper (Cu)	
Cadmium (Cd)	<0.1	Nickel (Ni)	
Chromium (Cr)	<0.4	Zinc (Zn)	
Lead (Pb)	<0.5		
Mercury (Hg)	<0.02		
Selenium (Se)	2.1		

INORGANICS (mg/l or ppm)

Total CN		Bromine	
Free CN		Iodine	
Sulfide		Asbestos	
Bisulfite			
Sulfite			
Sulfate			
Phosphate			
Fluorine			
Chlorine	1.3%		
Chloride			

ORGANICS (mg/l or ppm)

Endrin	N/A	Organotin	N/A
Permethrin	N/A	Hexachlor	N/A
Toxaphene	N/A		
2, 4-D	N/A		
2, 4, 5-T	N/A		
Phenol (lcs)	N/A		
PCB	N/A		
TOC	N/A		
BOD	N/A		
COO	N/A		

SUBMITTED BY: HEAT ENERGY ADVANCED TECHNOLOGY INC.
(Customer)
Container Size: 55 GALLON DRUM
EPA Waste No. 1003, 1005
REASON _____
Common Name of Waste PAINT SLUDGE
Rate of Generation 240 DRUMS PER MONTH
(Quan) (Units) (Time Interval)
Volume in Storage 200 DRUMS IN _____
(Quan) (Units) (Container)

Is Waste DOT Hazardous ☒ YES ☐ NO
Proper DOT Shipping Name FLAMMABLE SOLID N.O.S.
Hazard Class FLAMMABLE ID No. UN1325
Transportation Equipment DEALINE SERVICES TRACTOR & 80 DRUM VAN
Placarding FLAMMABLE SOLID
Generating Process WASTE PAINT SOLIDS, ABSORBENT FROM THE PUMPING & CONSOLIDATION OF PAINT SOLIDS & SLUDGES.

PHYSICAL DESCRIPTION
Physical State ☐ Liquid ☐ Semi-solid ☒ Solid
Phases/Layering ☒ None ☐ Bilayered ☐ Multilayered
Viscosity ☒ High ☐ Medium ☐ Low
Type of Solids ☐ Organic ☐ Inorganic ☒ Mixed
Total Solids (wt %) 100 Suspended Solids (wt %) N/A
BOD/lb 7000 Ash Content 15 WT %
Flash Point (°F) 75 Type HERSKE MARTIN CLOSED CUP
Specific Gravity 8.3 LB PER GALLON
Boiling Point, (°C) N/A Freezing Point, (°C) N/A
Vapor Pressure (mm Hg @ 24°C) N/A
pH (Avg) 7.4 (Range) 4.0 to 10.0
Total Alkalinity/Acidity (K) N/A
Color MILD PAINT COLOR
Color VARIES

HAZARDOUS PROPERTIES ☐ NONE
☒ Ignitable ☐ Corrodes Steel ☐ Toxic Vapor
☐ Reactive ☐ Pyrophoric ☐ Shock Sensitive
☐ Explosive ☐ Water Reactive ☐ Radioactive
☐ Biological ☐ Pathogen ☐ Etiological
☐ Pesticide Residuals
☐ Other _____

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES: _____

SAFETY GLOVES, GLASSES & APRON

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORT, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION, DATA & COMMENTS.

CERTIFICATION: 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 omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE 6/22/88 SIGNATURE Tony D. Clark TONY D. CLARK
VP OPERATIONS

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MONTPELLIER

MSD054

2455

11. 89 14:51 0000 MSPStRose TechDp 504-465-3319

P. 1



ENVIRONMENTALLY SAFE

TELECOPIER TRANSMITTAL SHEET

DATE: 091189

TIME: _____

DELIVER TO: MSP/A

PHONE #: _____

ATTN: _____

BARBARA FONTENOT

FROM: R. CAIRE

PHONE #: _____

DEPARTMENT: SALES

NUMBER OF PAGES 02

LETTER

LEGAL

COMMENTS: LTR FM H.E.A.T. FOLLOWS--FOR YOUR FILE.

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We are sending from the following Sanyo 515 - Auto Receive machine;
St. Rose, LA (504) 465-3344.

If possible, please check transmission after the last page. If you
are not receiving clearly or if you have any problems with
transmission, please call us immediately at the following number: St.
Rose, LA (504) 465-3324 or 1-800-USA-MSP.

DEQ052365

Operator _____

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HEAT ENERGY ADVANCED TECHNOLOGY, INC.

HEAT

September 8, 1989

Marine Shale Processors, Inc.
Attn: Mr. Richard Caire
P. O. Box 1698
Kenner, LA 70063

Re: Revised Data S

Dear Richard:

Per our telephone c
wish to include the

If you have any que

Sincerely,

Paul T. Dang
Paul T. Dang
Plant Manager

jmc

cc: file

*Please attach this letter
to data sheet.
Heat Energy
HEA/HEA/8804797*

DEQ052366

4460 Shiplon Blvd • Dallas Texas 75212 • (214) 637-6434

U.S. V. MSP
PRODUCED BY MSP 9/93
REQUEST
HEAT ENERGY ADVANCED TECHNOLOGY, INC.
Kenner, LA 70063

MSD054

2456

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MSD054

2457

MAKINE SHALE PROCESSORS, INC.
MATERIALS CHARACTERIZATION DATA SHEET

MARKETING (504) 767-0984
PLANT (504) 631-3626

JUN 23 1988

HEA/HEA/8604797
MSP CODE:

COPY

Submitted by: HEAT ENERGY ADVANCED TECHNOLOGY INC.

Generator Name: HEAT ENERGY ADVANCED TECHNOLOGY INC.
Facility Address: 4460 SINGLETON BLVD.

Container Sizes: 55 GALLON DRUM
EPA Waste No.: F003, F005

City, State, Zip: DALLAS, TX 75212

Technical Contact: TONY D. CLARK

Title: PLANT MANAGER

Telephone NO. (214) 637-6434 EXT:

Facility EPA ID #: TX0200624035

Common Name of Waste: PAINT SLUDGE
Rate of Generation: 240 DRUMS PER MONTH
(Quon) (Units) (Time Interval)

Volume in Storage: 200 DRUMS IN
(Quon) (Units) (Container)

CHEMICAL COMPOSITION

(Totals must add up to 100 %)

PAINT PIGMENTS & RESINS: >90 %
MEX. MINERAL SPIRITS: %
TOLUENE, MIBK, ETHER: %
CELLULOSE ACETATE, ISO PROPANOL: %
ACETONE, N-BUTYL ACETATES: <10 %

METALS (EP Toxicity Test, mg/l)

Arsenic (As): <2.0 Silver (Ag): <0.1
Barium (Ba): 1.16 Copper (Cu):
Cadmium (Cd): <0.1 Nickel (Ni):
Chromium (Cr): <0.4 Zinc (Zn):
Lead (Pb): <0.5
Mercury (Hg): <0.02
Selenium (Se): 2.1

INORGANICS (mg/l or ppm)

Total CM: -- Bromine: --
Free CM: -- Iodine: --
Sulfide: -- Asbestos: --
Disulfide: --
Sulfite: --
Sulfate: --
Phosphate: --
Fluorine: --
Chlorine: 1.317
Chloride: --

ORGANICS (mg/l or ppm)

Endrin: N/A Organophosphate: N/A
Methoxychlor: N/A Mercaptans: N/A
Toxaphene: N/A
2, 4-D: N/A
2, 4, 5-T: N/A
Phenol (lcs): N/A
PCB: N/A
TOC: N/A
DOC: N/A
COO: N/A

Is Waste DOT Hazardous (X) YES () NO
Proper DOT Shipping Name: FLAMMABLE SOLID N.O.S.
Hazard Class: FLAMMABLE ID No.: UN1225
Transportation Equipment: DEALINE SERVICES TRUCK & 80 LTR VAN
Hazarding: FLAMMABLE SOLID

Generating Process: WASTE PAINT SOLIDS, ANISOLANT FROM THE
HARDING & CONSOLIDATION OF PAINT SOLIDS & SLUDGES.

PHYSICAL DESCRIPTION

Physical State () Liquid () Semi-solid (X) Solid
Phases/Layering (X) None () Bifayered () Multilayered
Viscosity (X) High () Medium () Low
Type of Solids () Organic () Inorganic (X) Mixed
Total Solids (wt %): 100 Suspended Solids (wt %): N/A
Btu/lb: 7000 Ash Content: 15 WT %
Flash Point (°F): 75 Type: HEAVY PAINTIN CLOSED CUP
Specific Gravity: 8.3 LB PER GALLON
Boiling Point, (°C): N/A Freezing Point, (°C): N/A
Vapor Pressure (mm Hg @ 24°C): N/A
pH (Avg): 7.4 (Range): 4.0 to 10.0
Total Alkalinity/Acidity (K): N/A
Odor: MILD PAINT ODOR
Color: VARIES

HAZARDOUS PROPERTIES

() NONE
(X) Ignitable () Corrosives Steel () Toxic Vapor
() Reactive () Pyrophoric () Shock Sensitive
() Explosive () Water Reactive () Radioactive
() Biological () Pathogen () Etiological
() Pesticide Residuals
() Other

REQUIRED PERSONNEL PROTECTIVE
EQUIPMENT AND PROCEDURES:

SAFETY GLOVES, GASSES & APRON

PLEASE ATTACH ALL MATERIAL SAFETY
DATA SHEETS, LOGISTIC SKETCHES,
ANALYSIS REPORT, HANDLING
PRECAUTIONS, ADDITIONAL HAZARD
SUPPORT INFORMATION, DATA & COMMENTS.

CERTIFICATION: 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 omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE: 06/27/88

SIGNATURE: Tony D. Clark

TONY D. CLARK
VP OPERATIONS

MSP FORM 1010 (REV. 7/25/87)

DEQ052367

U.S. V. MSP releasable
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BOX 15 REQUEST
Letter to the FBI please
10/1/93, 10/1/93

MSDO54

2458 7

ETHEA/HEA/8604197
HSP/COE:

JUN 23 1988

COPY

SUBMITTED BY: HEAT ENERGY ADVANCED TECHNOLOGY INC.

(Customer)

Container Sizes 55 GALLON DRUM

ERA Waste No. F003, F005

Common Name of Waste	PAINT SLUDGE		
Rate of Generation	240	DRUMS PER	MONTH
	(Quan)	(Units)	(Time Interval)
Volume in Storage	200	DRUMS IN	
	(Quan)	(Units)	(Container)

Is Waste DOT Hazardous (X) YES () NO
 Proper DOT Shipping Name FLAMMABLE SOLID N.O.S.
 Hazard Class FLAMMABLE ID No. UN1325
 Transportation Label FLAMMABLE SOLID
 Placarding FLAMMABLE SOLID
 Generating Process WASTE PAINT SOLIDS, AIRBORNE FROM THE
MIXING & CONSOLIDATION OF PAINT SOLIDS & SLUDGES.
 PHYSICAL DESCRIPTION

Physical State ☐ Liquid ☐ Semi-solid ☒ Solid
Phases/Layering ☒ None ☐ Bilayered ☐ Multilayered
Viscosity ☒ High ☐ Medium ☐ Low
Type of Solids ☒ Organic ☐ Inorganic ☒ Mixed
Total Solids (wt %) 100 Suspended Solids (wt %) N/A
DU/IB 7000 % Ash Content 15 Wt %
Flash Point (°F) 75 Type PERSE, MARTIN CLOSED CUP
Specific Gravity 8.3 LB PER GALLON
Boiling Point: (°C) N/A Freezing Point: (°C) N/A
Vapor Pressure (mm Hg @ 21°C) N/A
pH (Avg) 7.4 (Range) 4.0 to 10.0
Total Alkalinity/Acidity (%) N/A
Odor HUII PAINT ODOR
Color VARIES

Heavy Metals, mg/l	
Arsenic (As)	<2.0
Barium (Ba)	1.16
Cadmium (Cd)	<0.1
Chromium (Cr)	<0.4
Lead (Pb)	<0.5
Mercury (Hg)	<0.02
Selenium (Se)	2.1
Silver (Ag)	<0.1
Copper (Cu)	
Nickel (Ni)	
Zinc (Zn)	

Total CN		Proline	
Free CN	---	Iodine	---
Sulfide	---	Asbestos	---
Disulfite	---		
Sulfite	---		
Sulfate	---		
Phosphate	---		
Fluorine	---		
Chlorine	1.3472		
Chloride	---		

Chemical	Concentration	Organohalide	Concentration
nickel	N/A		N/A
nitrobenzylchlor	N/A	mercaptans	N/A
toxaphene	N/A		
2, 4-D	N/A		
2, 4, 5-T	N/A		
phenolics	N/A		
PCB	N/A		
TOC	N/A		
BOD	N/A		
COD	N/A		

DATE 06/27/88

SIGNATURE

TONY D. CLARK
VP OPERATIONS

JSP FORM 1010 (REV. 2/25/97)

DEQ052368

PLEASE ATTACH ALL MATERIAL SAFETY DATA SHEETS, LOGISTIC SKETCHES, ANALYSIS REPORT, HANDLING PRECAUTIONS, ADDITIONAL HAZARD SUPPORT INFORMATION DATA & COMMENTS.

Woodward-Clyde Consultants

Marine Shale Processors
Daily Tank Check List (Tanks T-2, T-3)

Date: 7-6-90 Time: 7:00 Inspector: W. J. Callahan

Tank No.	T-2A	T-2B	T-3A	T-3B
Level	<u>1'</u>	<u>8'</u>	<u>9'</u>	<u>8'</u>
1.0 Tank Shell - Check for leaks, cracks, paint blisters, valve seals	<u>NO</u>			
2.0 Tank Piping - Check for leaks at hoses, valves, flanges	<u>NO</u>			
3.0 Equipment - Are timbers and backhoe securely on T-3?	<u>YES</u>			
Any leaks from backhoes, filter areas, auger, drum shredder	<u>YES</u>			
Any loose electrical connections on filter press, auger, drum shredder?	<u>NO</u>			
Are there any blockages, obstructions?	<u>NO</u>			
4.0 Tank Containment				
Are there any cracks, peeling, paint blisters in the concrete paving and curbing?	<u>YES</u>			
Are there any leaks, spills, oil in the sump?	<u>NO</u>			
If there is oil or water in the sump, is the sump pump working?	<u>YES</u>			
5.0 Is automatic foam system level adequate? Are fire extinguishers charged?	<u>YES</u>			
6.0 Is the vapor suppressing foam blanket on Tanks 2A, 2B, 3a and 3B undisturbed (sealed)?	<u>NO</u>			

Revised 8/88

Exhibit 1.3

DEQ052369

U.S. V. MSP
PRODUCED BY MSP 9/93
REQUESTED BY
NORTH CAROLINA
MARINE PROCESSORS

MSD054

2459

Woodward-Clyde Consultants

Marine Shale Processors
Daily Tank Check List (Tanks T-2, T-3)

Date: 7-7-90 Time: 7:00 Inspector: Kelly J. Allen

Tank No.	T-2A	T-2B	T-3A	T-3B
Level	<u>1'</u>	<u>EMPTY</u>	<u>8'</u>	<u>8'</u>

- 1.0 Tank Shell - Check for leaks, cracks, paint blisters, valve seals NO
- 2.0 Tank Piping - Check for leaks at hoses, valves, flanges NO
- 3.0 Equipment - Are timbers and backhoe securely on T-3? YES
Any leaks from backhoes, filter areas, auger, drum shredder YES
Any loose electrical connections on filter press, auger, drum shredder? NO
Are there any blockages, obstructions? NO
- 4.0 Tank Containment
Are there any cracks, peeling, paint blisters in the concrete paving and curbing? YES
Are there any leaks, spills, oil in the sump? NO
If there is oil or water in the sump, is the sump pump working? YES
- 5.0 Is automatic foam system level adequate: Are fire extinguishers charged? YES
- 6.0 Is the vapor suppressing foam blanket on Tanks 2A, 2B, 3a and 3B undisturbed (sealed)? NO

Revised 8/88

Exhibit 1.3

DEQ052370

U.S. V. MSP
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RELEASABLE
U.S. V. MSP
PRODUCED BY MSP 8/93
RELEASABLE

MSD054

2460

Woodward-Clyde Consultant:

Marine Shale Processors
Daily Tank Check List (Tanks T-2, T-3)

Date: 7-8-90 Time: 7:00 Inspector: K. J. Carls

Tank No.	T-2A	T-2B	T-3A	T-3B
Level	<u>2'</u>	<u>Empty</u>	<u>8'</u>	<u>7'</u>

- 1.0 Tank Shell - Check for leaks, cracks, paint blisters, valve seals NO
- 2.0 Tank Piping - Check for leaks at hoses, valves, flanges NO
- 3.0 Equipment - Are timbers and backhoe securely on T-3? YES
Any leaks from backhoes, filter areas, auger, drum shredder YES
Any loose electrical connections on filter press, auger, drum shredder? NO
Are there any blockages, obstructions? NO
- 4.0 Tank Containment
Are there any cracks, peeling, paint blisters in the concrete paving and curbing? YES
Are there any leaks, spills, oil in the sump? NO
If there is oil or water in the sump, is the sump pump working? YES
- 5.0 Is automatic foam system level adequate: Are fire extinguishers charged? YES
- 6.0 Is the vapor suppressing foam blanket on Tanks 2A, 2B, 3a and 3B undisturbed (sealed)? NO

Woodward-Clyde Consultant:

Marine Shale Processors

Daily Tank Check List (Tanks T-2, T-3)

Date: 7-9-90 Time: 7:00 Inspector: K. J. Rader

Tank No.	T-2A	T-2B	T-3A	T-3B
Level	<u>1'</u>	<u>Empty</u>	<u>9'</u>	<u>6'</u>

- 1.0 Tank Shell - Check for leaks, cracks, paint blisters, valve seals NO
- 2.0 Tank Piping - Check for leaks at hoses, valves, flanges NO
- 3.0 Equipment - Are timbers and backhoe securely on T-3? YES
 Any leaks from backhoes, filter areas, auger, drum shredder YES
 Any loose electrical connections on filter press, auger, drum shredder? NO
 Are there any blockages, obstructions? NO
- 4.0 Tank Containment
 Are there any cracks, peeling, paint blisters in the concrete paving and curbing? YES
 Are there any leaks, spills, oil in the sump? NO
 If there is oil or water in the sump, is the sump pump working? YES
- 5.0 Is automatic foam system level adequate: Are fire extinguishers charged? YES
- 6.0 Is the vapor suppressing foam blanket on Tanks 2A, 2B, 3a and 3B undisturbed (sealed)? NO

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Exhibit 1.3

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Woodward-Clyde Consultants

Marine Shale Processors
Daily Tank Check List (Tanks T-2, T-3)

Date: 7-10-90 Time: 7:00 Inspector: L. J. Callahan

Tank No.	T-2A	T-2B	T-3A	T-3B
Level	<u>1'</u>	<u>EMPTY</u>	<u>9'</u>	<u>4'</u>
1.0 Tank Shell - Check for leaks, cracks, paint blisters, valve seals	<u>NO</u>			
2.0 Tank Piping - Check for leaks at hoses, valves, flanges	<u>NO</u>			
3.0 Equipment - Are timbers and backhoe securely on T-3?	<u>YES</u>			
Any leaks from backhoes, filter areas, auger, drum shredder	<u>YES</u>			
Any loose electrical connections on filter press, auger, drum shredder?	<u>NO</u>			
Are there any blockages, obstructions?	<u>NO</u>			
4.0 Tank Containment				
Are there any cracks, peeling, paint blisters in the concrete paving and curbing?	<u>YES</u>			
Are there any leaks, spills, oil in the sump?	<u>NO</u>			
If there is oil or water in the sump, is the sump pump working?	<u>YES</u>			
5.0 Is automatic foam system level adequate: Are fire extinguishers charged?	<u>YES</u>			
6.0 Is the vapor suppressing foam blanket on Tanks 2A, 2B, 3a and 3B undisturbed (sealed)?	<u>NO</u>			

Woodward-Clyde Consultants

Marine Shale Processors
Daily Tank Check List (Tanks T-2, T-3)

Date: 7-11-80 Time: 2:00 Inspector: Jeff Allen

Tank No.	T-2A	T-2B	T-3A	T-3B
Level	<u>1'</u>	<u>EMPTY</u>	<u>7'</u>	<u>4'</u>
1.0 Tank Shell - Check for leaks, cracks, paint blisters, valve seals	<u>NO</u>			
2.0 Tank Piping - Check for leaks at hoses, valves, flanges	<u>NO</u>			
3.0 Equipment - Are timbers and <u>backhoe</u> securely on T-3?	<u>YES</u>			
Any leaks from <u>backhoes</u> , filter areas, auger, drum shredder	<u>YES</u>			
Any loose electrical connections on filter press, auger, drum shredder?	<u>NO</u>			
Are there any blockages, obstructions?	<u>NO</u>			
4.0 Tank Containment				
Are there any cracks, peeling, paint blisters in the <u>concrete</u> paving and curbing?	<u>YES</u>			
Are there any leaks, spills, oil in the sump?	<u>NO</u>			
If there is oil or water in the sump, is the sump pump working?	<u>YES</u>			
5.0 Is automatic foam system level adequate: Are fire extinguishers charged?	<u>YES</u>			
6.0 Is the vapor suppressing foam blanket on Tanks 2A, 2B, 3a and 3B undisturbed (sealed)?	<u>NO</u>			

Woodward-Clyde Consultants

Marine Shale Processors
Daily Tank Check List (Tanks T-2, T-3)

Date: 7-12-90 Time: 7:00 Inspector: Jeff O'Neil

Tank No.	T-2A	T-2B	T-3A	T-3B
Level	<u>1'</u>	<u>EMPTY</u>	<u>8'</u>	<u>5'</u>

- 1.0 Tank Shell - Check for leaks, cracks, paint blisters, valve seals NO
- 2.0 Tank Piping - Check for leaks at hoses, valves, flanges NO
- 3.0 Equipment - Are timbers and backhoe securely on T-3? YES
Any leaks from backhoes, filter areas, auger, drum shredder YES
Any loose electrical connections on filter press, auger, drum shredder? NO
Are there any blockages, obstructions? NO
- 4.0 Tank Containment
Are there any cracks, peeling, paint blisters in the concrete paving and curbing? YES
Are there any leaks, spills, oil in the sump? NO
If there is oil or water in the sump, is the sump pump working? YES
- 5.0 Is automatic foam system level adequate: Are fire extinguishers charged? YES
- 6.0 Is the vapor suppressing foam blanket on Tanks 2A, 2B, 3a and 3B undisturbed (sealed)? NO

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Marine Shale Processors
Daily Tank Check List (Tanks T-2, T-3)

Date: 7-12-90 Time: 9:20 A.M. Inspector: Kenneth B. Biddle

Tank No.	T-2A	T-2B	T-3A	T-3B
Level	<u>0'</u>	<u>13'</u>	<u>8'</u>	<u>6'</u>

- 1.0 Tank Shell - Check for leaks, cracks, paint blisters, valve seals no
- 2.0 Tank Piping - Check for leaks at hoses, valves, flanges no
- 3.0 Equipment - Are timbers and backhoe securely on T-3? yes
Any leaks from backhoes, filter areas, auger, drum shredder yes
Any loose electrical connections on filter press, auger, drum shredder? no
Are there any blockages, obstructions? no
- 4.0 Tank Containment
Are there any cracks, peeling, paint blisters in the concrete paving and curbing? yes
Are there any leaks, spills, oil in the sump? no
If there is oil or water in the sump, is the sump pump working? yes
- 5.0 Is automatic foam system level adequate: Are fire extinguishers charged? yes
- 6.0 Is the vapor suppressing foam blanket on Tanks 2A, 2B, 3a and 3B undisturbed (sealed)? no

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Marine Shale Processors

Daily Tank Check List (Tanks T-2, T-3)

Date: 7-13-90 Time: 7:00 Inspector: [Signature]

Tank No.	T-2A	T-2B	T-3A	T-3B
Level	<u>FULL</u>	<u>EMPTY</u>	<u>6'</u>	<u>3'</u>

- 1.0 Tank Shell - Check for leaks, cracks, paint blisters, valve seals NO
- 2.0 Tank Piping - Check for leaks at hoses, valves, flanges NO
- 3.0 Equipment - Are timbers and backhoe securely on T-3? YES
 - Any leaks from backhoes, filter areas, auger, drum shredder YES
 - Any loose electrical connections on filter press, auger, drum shredder? NO
 - Are there any blockages, obstructions? NO
- 4.0 Tank Containment
 - Are there any cracks, peeling, paint blisters in the concrete paving and curbing? YES
 - Are there any leaks, spills, oil in the sump? NO
 - If there is oil or water in the sump, is the sump pump working? YES
- 5.0 Is automatic foam system level adequate: Are fire extinguishers charged? YES
- 6.0 Is the vapor suppressing foam blanket on Tanks 2A, 2B, 3a and 3B undisturbed (sealed)? NO

Woodward-Clyde Consultants

Marine Shale Processors
Daily Tank Check List (Tanks T-2, T-3)

Date: 7-14-90 Time: 2:00 Inspector: Kevin J. Cullen

Tank No.	T-2A	T-2B	T-3A	T-3B
Level	<u>Full</u>	<u>Empty</u>	<u>6'</u>	<u>6'</u>

- 1.0 Tank Shell - Check for leaks, cracks, paint blisters, valve seals NO
- 2.0 Tank Piping - Check for leaks at hoses, valves, flanges NO
- 3.0 Equipment - Are timbers and backhoe securely on T-3? YES
Any leaks from backhoes, filter areas, auger, drum shredder YES
Any loose electrical connections on filter press, auger, drum shredder? NO
Are there any blockages, obstructions? NO
- 4.0 Tank Containment
Are there any cracks, peeling, paint blisters in the concrete paving and curbing? YES
Are there any leaks, spills, oil in the sump? NO
If there is oil or water in the sump, is the sump pump working? YES
- 5.0 Is automatic foam system level adequate: Are fire extinguishers charged? YES
- 6.0 Is the vapor suppressing foam blanket on Tanks 2A, 2B, 3a and 3B undisturbed (sealed)? NO

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Marine Shale Processors
Daily Tank Check List (Tanks T-2, T-3)

Date: 7-15-90 Time: 2:00 Inspector: K. J. O'Leary

Tank No.	T-2A	T-2B	T-3A	T-3B
Level	<u>Full</u>	<u>Empty</u>	<u>8'</u>	<u>6'</u>
1.0 Tank Shell - Check for leaks, cracks, paint blisters, valve seals	<u>NO</u>			
2.0 Tank Piping - Check for leaks at hoses, valves, flanges	<u>NO</u>			
3.0 Equipment - Are timbers and backhoe securely on T-3?	<u>YES</u>			
Any leaks from backhoes, filter areas, auger, drum shredder	<u>YES</u>			
Any loose electrical connections on filter press, auger, drum shredder?	<u>NO</u>			
Are there any blockages, obstructions?	<u>NO</u>			
4.0 Tank Containment				
Are there any cracks, peeling, paint blisters in the concrete paving and curbing?	<u>YES</u>			
Are there any leaks, spills, oil in the sump?	<u>NO</u>			
If there is oil or water in the sump, is the sump pump working?	<u>YES</u>			
5.0 Is automatic foam system level adequate: Are fire extinguishers charged?	<u>YES</u>			
6.0 Is the vapor suppressing foam blanket on Tanks 2A, 2B, 3a and 3B undisturbed (sealed)?	<u>NO</u>			

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L. J. O'Leary
Marine Shale Processors

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Marine Shale Processors
Daily Tank Check List (Tanks T-2, T-3)

Date: 7-16-90 Time: 2:00 Inspector: Keith J. Cappel

Tank No.	T-2A	T-2B	T-3A	T-3B
Level	<u>Full</u>	<u>Empty</u>	<u>9'</u>	<u>8'</u>

- 1.0 Tank Shell - Check for leaks, cracks, paint blisters, valve seals NO
- 2.0 Tank Piping - Check for leaks at hoses, valves, flanges NO
- 3.0 Equipment - Are timbers and backhoe securely on T-3? YES
Any leaks from backhoes, filter areas, auger, drum shredder YES
Any loose electrical connections on filter press, auger, drum shredder? NO
Are there any blockages, obstructions? NO
- 4.0 Tank Containment
Are there any cracks, peeling, paint blisters in the concrete paving and curbing? YES
Are there any leaks, spills, oil in the sump? NO
If there is oil or water in the sump, is the sump pump working? YES
- 5.0 Is automatic foam system level adequate: Are fire extinguishers charged? YES
- 6.0 Is the vapor suppressing foam blanket on Tanks 2A, 2B, 3a and 3B undisturbed (sealed)? NO

Woodward-Clyde Consultants

Marine Shale Processors
Daily Tank Check List (Tanks T-2, T-3)

Date: July 17, 1990 Time: 7:00 Inspector: Keith J. Callahan

Tank No.	T-2A	T-2B	T-3A	T-3B
Level	<u>Full</u>	<u>Empty</u>	<u>8'</u>	<u>8'</u>
1.0 Tank Shell - Check for leaks, cracks, paint blisters, valve seals	<u>NO</u>			
2.0 Tank Piping - Check for leaks at hoses, valves, flanges	<u>NO</u>			
3.0 Equipment - Are timbers and backhoe securely on T-3?	<u>YES</u>			
Any leaks from backhoes, filter areas, auger, drum shredder	<u>YES</u>			
Any loose electrical connections on filter press, auger, drum shredder?	<u>NO</u>			
Are there any blockages, obstructions?	<u>NO</u>			
4.0 Tank Containment				
Are there any cracks, peeling, paint blisters in the concrete paving and curbing?	<u>YES</u>			
Are there any leaks, spills, oil in the sump?	<u>NO</u>			
If there is oil or water in the sump, is the sump pump working?	<u>YES</u>			
5.0 Is automatic foam system level adequate: Are fire extinguishers charged?	<u>YES</u>			
6.0 Is the vapor suppressing foam blanket on Tanks 2A, 2B, 3a and 3B undisturbed (sealed)?	<u>NO</u>			

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Exhibit 1.3

DEQ052381

Box 13
Hazardous Waste
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Marine Shale Processors

Daily Tank Check List (Tanks T-2, T-3)

Date: 7-18-90 Time: 7:00 AM Inspector: TERRY BERGHAUS

Tank No.	<u>T-2A</u>	<u>T-2B</u>	<u>T-3A</u>	<u>T-3B</u>
Level	<u>FULL</u>	<u>empty</u>	<u>10'</u>	<u>8'</u>

1.0 Tank Shell - Check for leaks, cracks, paint blisters, valve seals NONE

2.0 Tank Piping - Check for leaks at hoses, valves, flanges NONE

3.0 Equipment - Are timbers and backhoe securely on T-3? YES

Any leaks from backhoes, filter areas, auger, drum shredder YES

Any loose electrical connections on filter press, auger, drum shredder? NONE

Are there any blockages, obstructions? NONE

4.0 Tank Containment

Are there any cracks, peeling, paint blisters in the concrete paving and curbing? YES

Are there any leaks, spills, oil in the sump? NONE

If there is oil or water in the sump, is the sump pump working? YES

5.0 Is automatic foam system level adequate: Are fire extinguishers charged? YES

6.0 Is the vapor suppressing foam blanket on Tanks 2A, 2B, 3a and 3B undisturbed (sealed)? NO

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Exhibit 1.3

DEQ052382

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WALTER H. HARRIS, JR.
WALTER H. HARRIS, JR.

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Woodward-Clyde Consultants

Marine Shale Processors

Daily Tank Check List (Tanks T-2, T-3)

Date: 7-19-90 Time: 7:00 AM Inspector: Terry Shanley

Tank No.	T-2A	T-2B	T-3A	T-3B
Level	<u>Full</u>	<u>Empty</u>	<u>10'</u>	<u>8'</u>

- 1.0 Tank Shell - Check for leaks, cracks, paint blisters, valve seals NONE
- 2.0 Tank Piping - Check for leaks at hoses, valves, flanges NONE
- 3.0 Equipment - Are timbers and backhoe securely on T-3? YES
 - Any leaks from backhoes, filter areas, auger, drum shredder YES
 - Any loose electrical connections on filter press, auger, drum shredder? NONE
 - Are there any blockages, obstructions? NONE
- 4.0 Tank Containment
 - Are there any cracks, peeling, paint blisters in the concrete paving and curbing? YES
 - Are there any leaks, spills, oil in the sump? NONE
 - If there is oil or water in the sump, is the sump pump working? YES
- 5.0 Is automatic foam system level adequate: Are fire extinguishers charged? YES
- 6.0 Is the vapor suppressing foam blanket on Tanks 2A, 2B, 3a and 3B undisturbed (sealed)? NO

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Exhibit 1.3

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U.S. ATTORNEY GENERAL
Washington, D.C.

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Woodward-Clyde Consultant

Marine Shale Processors
Daily Tank Check List (Tanks T-2, T-3)

Date: 7-20-90 Time: 2:00 Inspector: [Signature]

Tank No.	T-2A	T-2B	T-3A	T-3B
Level	<u>Full</u>	<u>Empty</u>	<u>8'</u>	<u>3'</u>

- 1.0 Tank Shell - Check for leaks, cracks, paint blisters, valve seals NO
- 2.0 Tank Piping - Check for leaks at hoses, valves, flanges NO
- 3.0 Equipment - Are timbers and backhoe securely on T-3? YES
Any leaks from backhoes, filter areas, auger, drum shredder YES
Any loose electrical connections on filter press, auger, drum shredder? NO
Are there any blockages, obstructions? NO
- 4.0 Tank Containment
Are there any cracks, peeling, paint blisters in the concrete paving and curbing? YES
Are there any leaks, spills, oil in the sump? NO
If there is oil or water in the sump, is the sump pump working? YES
- 5.0 Is automatic foam system level adequate: Are fire extinguishers charged? YES
- 6.0 Is the vapor suppressing foam blanket on Tanks 2A, 2B, 3a and 3B undisturbed (sealed)? NO

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Woodward-Clyde Consultant:

Marine Shale Processors
Daily Tank Check List (Tanks T-2, T-3)

Date: 7-21-82 Time: 7:00 Inspector: Lee J. Carter

Tank No.	T-2A	T-2B	T-3A	T-3B
Level	<u>Full</u>	<u>Empty</u>	<u>8'</u>	<u>3'</u>

- 1.0 Tank Shell - Check for leaks, cracks, paint blisters, valve seals NO
- 2.0 Tank Piping - Check for leaks at hoses, valves, flanges NO
- 3.0 Equipment - Are timbers and backhoe securely on T-3? YES
Any leaks from backhoes, filter areas, auger, drum shredder YES
Any loose electrical connections on filter press, auger, drum shredder? NO
Are there any blockages, obstructions? NO
- 4.0 Tank Containment
Are there any cracks, peeling, paint blisters in the concrete paving and curbing? YES
Are there any leaks, spills, oil in the sump? NO
If there is oil or water in the sump, is the sump pump working? YES
- 5.0 Is automatic foam system level adequate: Are fire extinguishers charged? YES
- 6.0 Is the vapor suppressing foam blanket on Tanks 2A, 2B, 3a and 3B undisturbed (sealed)? NO

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Exhibit 1.3

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L. J. Carter, MSP
Marine Shale Processors

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Woodward-Clyde Consultants

Marine Shale Processors

Daily Tank Check List (Tanks T-2, T-3)

Date: 7-22-90 Time: 2:00 Inspector: W. J. Callahan

Tank No.	T-2A	T-2B	T-3A	T-3B
Level	<u>Full</u>	<u>Empty</u>	<u>8'</u>	<u>4'</u>

- 1.0 Tank Shell - Check for leaks, cracks, paint blisters, valve seals NO
- 2.0 Tank Piping - Check for leaks at hoses, valves, flanges NO
- 3.0 Equipment - Are timbers and backhoe securely on T-3? YES
 Any leaks from backhoes, filter areas, auger, drum shredder YES
 Any loose electrical connections on filter press, auger, drum shredder? NO
 Are there any blockages, obstructions? NO
- 4.0 Tank Containment
 Are there any cracks, peeling, paint blisters in the concrete paving and curbing? YES
 Are there any leaks, spills, oil in the sump? NO
 If there is oil or water in the sump, is the sump pump working? YES
- 5.0 Is automatic foam system level adequate: Are fire extinguishers charged? YES
- 6.0 Is the vapor suppressing foam blanket on Tanks 2A, 2B, 3a and 3B undisturbed (sealed)? NO

Woodward-Clyde Consultants

Marine Shale Processors

Daily Tank Check List (Tanks T-2, T-3)

Date: 7-23-92 Time: 7:00 Inspector: Kathy Caldwell

Tank No.	T-2A	T-2B	T-3A	T-3B
Level	<u>Full</u>	<u>Empty</u>	<u>9'</u>	<u>5'</u>

- 1.0 Tank Shell - Check for leaks, cracks, paint blisters, valve seals NO
- 2.0 Tank Piping - Check for leaks at hoses, valves, flanges NO
- 3.0 Equipment - Are timbers and backhoe securely on T-3? YES
 Any leaks from backhoes, filter areas, auger, drum shredder YES
 Any loose electrical connections on filter press, auger, drum shredder? NO
 Are there any blockages, obstructions? NO
- 4.0 Tank Containment
 Are there any cracks, peeling, paint blisters in the concrete paving and curbing? YES
 Are there any leaks, spills, oil in the sump? NO
 If there is oil or water in the sump, is the sump pump working? YES
- 5.0 Is automatic foam system level adequate: Are fire extinguishers charged? YES
- 6.0 Is the vapor suppressing foam blanket on Tanks 2A, 2B, 3a and 3B undisturbed (sealed)? NO

Woodward-Clyde Consultants

Marine Shale Processors

Daily Tank Check List (Tanks T-2, T-3)

Date: 7-24-90 Time: 2:00 Inspector: W. J. Callahan

Tank No.	T-2A	T-2B	T-3A	T-3B
Level	<u>Full</u>	<u>Empty</u>	<u>9'</u>	<u>8'</u>

- 1.0 Tank Shell - Check for leaks, cracks, paint blisters, valve seals NO
- 2.0 Tank Piping - Check for leaks at hoses, valves, flanges NO
- 3.0 Equipment - Are timbers and backhoe securely on T-3? YES
 Any leaks from backhoes, filter areas, auger, drum shredder YES
 Any loose electrical connections on filter press, auger, drum shredder? NO
 Are there any blockages, obstructions? NO
- 4.0 Tank Containment
 Are there any cracks, peeling, paint blisters in the concrete paving and curbing? YES
 Are there any leaks, spills, oil in the sump? NO
 If there is oil or water in the sump, is the sump pump working? YES
- 5.0 Is automatic foam system level adequate: Are fire extinguishers charged? YES
- 6.0 Is the vapor suppressing foam blanket on Tanks 2A, 2B, 3a and 3B undisturbed (sealed)? NO

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186th Elementary 9003139 ✓ (#1)

Pallisade High School 9003138 ✓ 8, 7, 5, 9, 6
9003136

Sixty-Six 9003137

~~9003136~~

Administrative Off. 9003135

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9002956 ✓ 57
Hollywood Park Op. 18. 16 9002712 ✓ 9002707 ✓ (013)
9003113 ✓ 27 (900)
9003114
AIR FAN 9003564 (30) 9003566 ✓ 117 016503 #1
9003560 ✓ 12 016504 #5
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9003422 ✓ 75 { 016491 #46
9003319 ✓ 75 { 016494
9003321 * 75 { 016495 #38
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9003318 *
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9003148
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 Palmdale High School 9003129 ✓ #10, 11, 12
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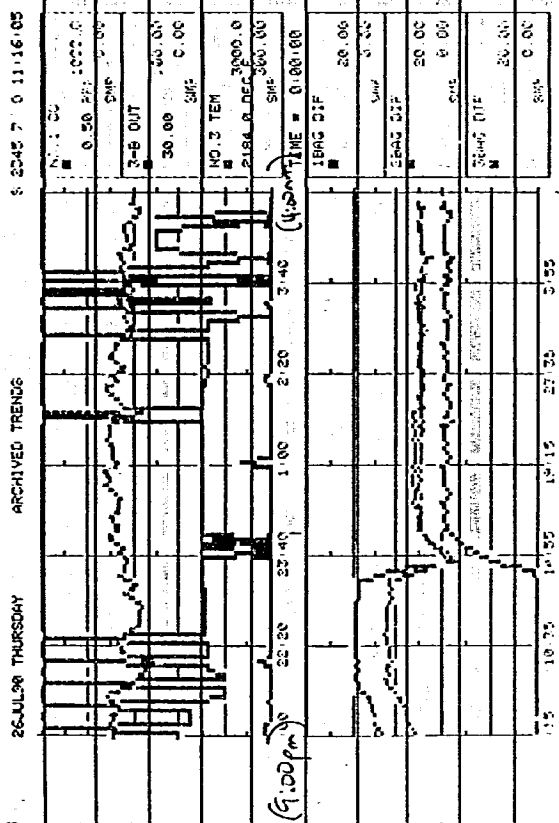
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