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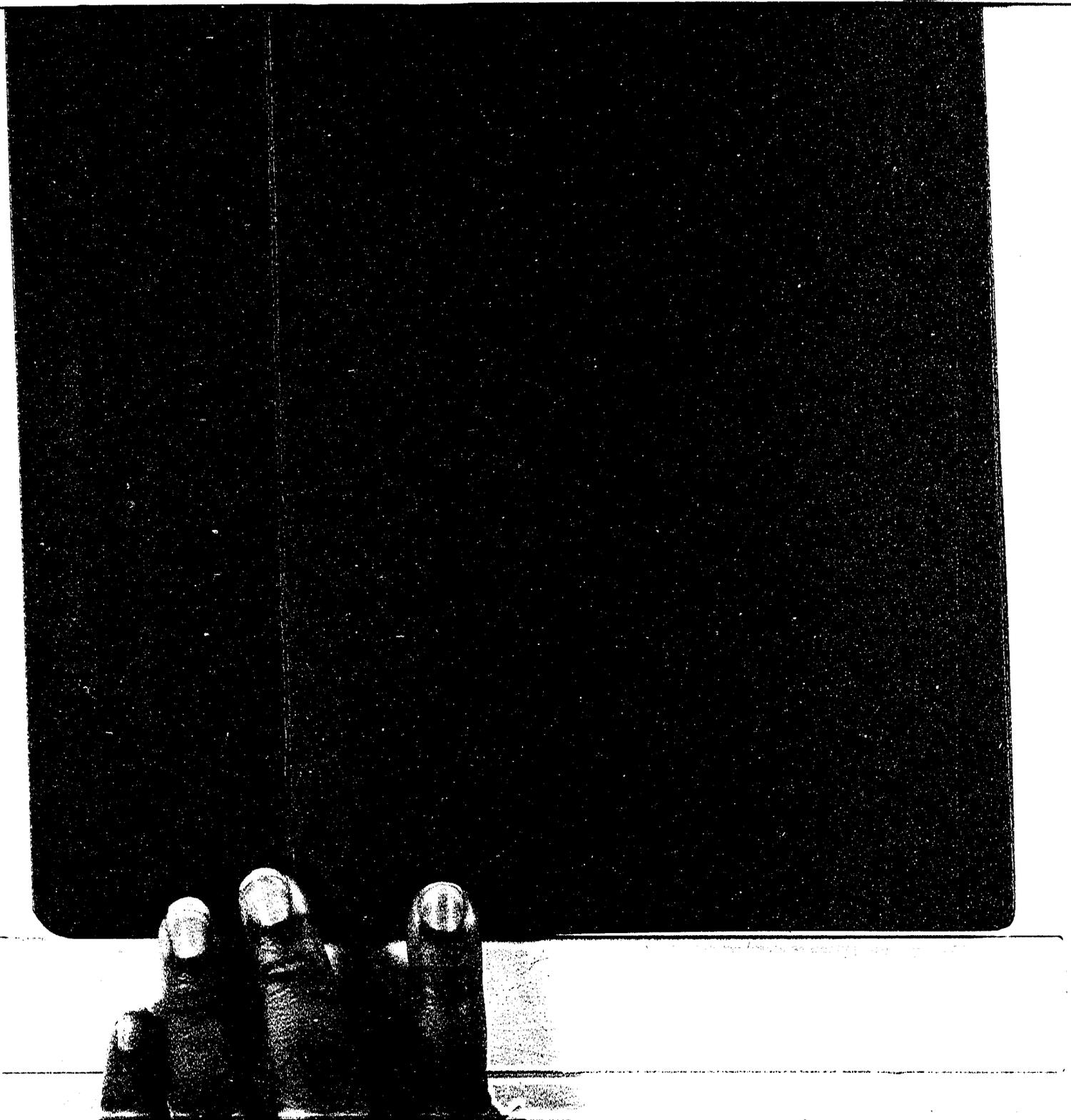
US v. MSP Releasable
PRODUCED BY MSP 9/93
BOX # 5 REQUEST #
Wilkinson Headquarters Photos
MSD054



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US v. MSP Releasable
PRODUCED BY MSP 9/93
BOX # 5 REQUEST #
Uniform Hazardous Waste Manifest
MCDES

MSD054

1901 FL

DE005181.6

MSP 11/89 6 of 8

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US v. MSP Releasable
PRODUCED BY MSP 9/93
BOX # 5 REQUEST # _____
Uniform Hazardous Waste Manifest
MSDS

MSD054

1902 F

Unsure if any incompatibility

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

RECYCLE / REUSE

MANIFEST No. 016202

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. CAD 980 510 706 — 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
Filtrol
3250 E Washington Blvd Los Angeles CA 90023

4. Generator's Phone (213) 260-9847

5. Transporter 1 Company Name: Odyssey Trans
6. US EPA ID Number: CAD 980 510 706

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: LAD 981 057 706

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID: 101441
D. Transporter's Phone: (213) 624-3901
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.	I. Waste No.
a. Waste Flammable Solid, n.o.s. Flammable Solid UN1325	00PH	DM	000220	G	D001 R
b.					R
c.					R
d.					R

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
EREC/ FILT/ 9003083

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Gloves & Goggles

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.

GENERATOR — Printed/Typed Name: Jeffery M. Wolf — Signature: J. M. Wolf — Month Day Year: 10/11/9/10

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: John D Foster — Signature: John D Foster — Month Day Year: 10/16/1991 0

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space
DEQ051817

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 — Month Day Year: 10/23/91

EPA Form 8700-22 (Rev. 9-88) WHITE – DEQ. GREEN – Generator. YELLOW – TSDRF. BLUE – Transporter 2. PINK – Transporter 1. GOLD – Generator DEQ FORM HW-3 (8/88)

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REQUEST [illegible]

MSD054

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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

JUN 05 1990

9003083

For MSP Use Only
Approval Code EREC/FILT/9003083

A. General Information

Company Name: Filtrol
Address: 3250 E Washington Blvd
City: Los Angeles State: CA Zip Code: 90023
Generator Contact: Jeff Wolf
Title: Plt Mgr
Telephone No. (213): 260-9847
Facility EPA I.D. No.: CAD096000526

B. Customer Information

Company Name: Enviro Serv
Contact: Fred Pell
Address: PO Box 2376
Sepulveda CA 91393
Telephone No. (818): 891-1495
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%)

	MIN	MAX
"Cause Our Sludge"	100%	

Common name of waste:

E. General Characteristics

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

F. Specific Characteristics

Is the waste a:

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
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
BTU's per lb (list actual value): 12000 list actual: ____ list actual: ____
Viscosity (for bulk liquids only) list actual in centipoise: ____ cp
Total Suspended Solids (Wt % for bulk liquids only): ☐ 5-20 ☐ if > 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 actual ☐ 140°-200°F
Sulfur (Wt %): ☐ < 5 ☐ if > 5 list actual value: ____

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

Metals: EP Toxicity Test (MG/L) n/s none suspected

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

Organics (ppm)

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

DE005181B

US V. MSP Releasable PRODUCED BY MSP 9/92
BOX 5 REQUEST # 1 Waste characterization data sheet MSD054
MSD054
1804

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U.S. V. NSP Releasable
PRODUCED BY NSP 9/93
REQUEST
DOX # 5 Utility waste oil waste characterization forms

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

Respirator, Gloves & Goggles

Generating process:

J. Shipping Information

DOT Hazardous Material (Y) N (circle one)

Proper Shipping Name: WASTE FLAMMABLE SOLID DOT I.D. No. (UN) NA 1325

Hazard Class: FLAMMABLE SOLID RQ

Anticipated Volume: (Drums) 6 Gal Yds Lbs ☐ Bulk ☐ Roll

Container Size: 55 gallon Container Type: Steel

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

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. Jeff Wolf — Generator's Signature

2. JEFF WOLF — Name (type or Print)

3. 6-4-96 — Date

4. PLANT MANAGER — 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.

DEQ051819

MSD054

1905

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

RECYCLE / REUSE

MANIFEST Nº 016208

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. CAD 1000 1013 2 | 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
SOUTHWEST AEROSPACE
2442 DOW AVENUE TUSTIN CA 92680

4. Generator's Phone (714) 832-1333

5. Transporter 1 Company Name: Odyssey Transport

6. US EPA ID Number: CAD 1000 1013 2

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: LAD 981 057 706

A. State Manifest Document Number

B. State Generator's ID

C. State Transporter's ID: 101441

D. Transporter's Phone: (213) 404-3901

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.	L Waste No.
a. WASTE FLAMMABLE SOLID, N.O.S. FLAMMABLE SOLID UN1325	001	DM	00111	G	D001 R
b.					R
c.					R
d.					R

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
EREC/ SACA/ 90026196

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Gloves & Goggles

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.

GENERATOR — Printed/Typed Name: MARVIN M. MCLAUGHLIN — Signature — Month Day Year: 12 12 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: John D. Carter — Signature — Month Day Year: 12 12 90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space
DEQ051820

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: GLEN ROSSELL — Signature — Month Day Year: 12 17 90

EPA Form 8700-22 (Rev. 9-88) WHITE – DEQ, GREEN – Generator, YELLOW – TSDRF, BLUE – Transporter 2, PINK – Transporter 1, GOLD – Generator

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MSD054

1906 F

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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 11 1990

9002619

For MSP Use Only
Approval Code EREC/SACH/9002619

A. General Information

Company Name	Southwest Aerospace
Address	2672 Dow Ave
City	Tustin State CA Zip Code 92680
Generator Contact	Mary McLaughlin
Title	Plant Mgr
Telephone No. (714)	832-1333
Facility EPA I.D. No.	CAL 000 032 519

B. Customer Information

Company Name	EnviroServ
Contact	Fred Bell
Address	P.O. Box 2376
	Sepulveda CA 91393
Telephone No. (818)	891-1495
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%)

	MIN	MAX
Resin Sludge	100%	

Common name of waste:

E. General Characteristics

Color: Varied

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

Water (Wt %): ☒ < 1 ☐ 5-10 ☐ 1-5 ☐ if > 10 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

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

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

pH: ☐ 2-6 ☒ 6-10 ☐ 10-12.5 ☐ if < 2 or > 12.5 list actual

BTU's per lb (list actual value): 13500

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

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

Halogens (Wt %): ☐ Iodine ☐ Bromine ☐ Chlorine ☐ Fluorine — actual Wt %

	< 1	1-5	5-10
Iodine	☒	☐	☐
Bromine	☒	☐	☐
Chlorine	☒	☐	☐

If > 10 list actual Wt %:

n/a none suspected

Metals: EP Toxicity Test (MG/L)

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

Organics (ppm)

Endrin	n/a	Methoxychlor	n/a
Lindane	n/a	Toxaphene	n/a
2,4-D	n/a	2,4,5-TP (Silvex)	n/a

If material contains the following compounds, indicate actual ppm:

PCB	n/a
Cyanides	n/a
Sulfides	n/a
Dioxin	n/a

DEQ051821

MSD054

190

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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 suppo information, data and comments Respirator, Gloves & Goggles

Generating process:

J. Shipping Information

DOT Hazardous Material (Y) N

Proper Shipping Name WASTE FLAMMABLE SOLID DOT I.D. No. (UN) NA (circle one) 1325

Hazard Class FLAMMABLE SOLID RQ

Anticipated Volume (Drums) 3 Gal Yds Lbs ☐ Bulk ☐ Roll

Container Size 55 gallon Container Type Steel

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. Mary McLaughlin
Generator's Signature

2. MARY McLAUGHLIN
Name (Type or Print)

3. 5/8/90
Date

4. Plant Mgr.
Title

DEQ051822

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.

US V. NSP Releasable
PRODUCED BY NSP 9/93
REQUEST
Box 5 Hazardous Waste Materials

MSD054
1908

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

W/O# 33449

RECYCLE / REUSE

MANIFEST 010600

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. NYD043845703 — 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
Frontier Chemical Waste Process, Inc.
4626 Royal Avenue Niagara Falls, NY 14303

4. Generator's Phone (716) 285-8208

5. Transporter 1 Company Name: Frank's Vacuum Truck Service
6. US EPA ID Number: NYD982792814

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: LAD981057706

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID: 75-0278
D. Transporter's Phone: (716) 284-2132
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.	I. Waste No.
a. RQ, Waste Flammable Solid NOS Flammable Solid UN1325 (D001)	04	DM	1600	P	D001 R
b. RQ, Waste Flammable Solid NOS Flammable Solid UN1325 (F003, F005)	36	DM	14400	P	F003 R F005
c. RQ, Waste Flammable Solid NOS Flammable Solid UN1325 (F003, F005)	04	DM	1600	P	F003 R F005
d. RQ, Hazardous Waste Solid NOS ORM-E NA9189 (F001, F002)	20	DM	8000	P	F001 F002 R

J. Additional Descriptions for Materials Listed Above — RECYCLE/REUSE
a) paint waste — ENVS/FC — 8900193
b) degreasing waste — ENVS/FC — 8905288
c) crushed drums — ENVS/FC — 8905080
d) degreasing waste — ENVS/FC — 8905289

K. Handling Codes for Wastes Listed Above
a) B
b) B
c) B
d) B

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: CHARLES F. WENZ — Signature — Month Day Year: 06 23 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Bill Greco — Signature — Month Day Year: 06 23 90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space
DEQ051823

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 BARNETT — Signature — Month Day Year: 06 25 90

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US V. MSP PRODUCED BY MSP 9/93 Releasable

MSD054

1908

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US V. MSP PRODUCED BY MSP 9/93 Releasable
BOX: Shipping address, waste characterization forms
MSD054

JAN 12 1993

MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC.
110 James Drive West, Suite 120
St. Rose, LA 70087
504 365-3310

9000193

For MSP Use Only
Approval Code FCWP/FQWP/9000193

A. General Information

Company Name: FRONTIER CHEMICAL WASTE PROCESS
Address: 4626 ROYAL AVE
City: NIAGARA FALLS State: NY Zip Code: 14303
Generator Contact: MIKE MAYER
Title: CORP DEVELOPMENT
Telephone No. (716): 285-8208
Facility EPA I.D. No.: NYD043815703

B. Customer Information

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

C. Regulatory Information

[X] RCRA Regulated [ ] Land Ban [ ] Non-Regulated EPA Waste Code(s): D001

D. Chemical Composition

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

	MIN	MAX
PAINT, PAINT PIGMENTS	25	55
POLYESTER RESINS	20	30
OIL + GREASE	10	15
SPEEDI-DRY	0	20
DIRT - GRIT	0	20

E. General Characteristics

Color: VARIES WITH PAINT USED
Odor: [ ] None [X] Mild [ ] Strong
[ ] Liquid [ ] Sludge [X] Solid [ ] Powder
Phases: [X] 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 %): 5.5
BTU's per lb (list actual value): 6,000 – 7,000
Water (Wt %): [X] <1 [ ] 1-5 [ ] 5-10 [ ] if > 10 list actual
Specific Gravity: [ ] <0.8 [ ] 0.8-1.0 [ ] 1.0-1.2 [X] 1.2-1.4 [ ] 1.4-1.7 [ ] >1.7 list actual
Viscosity (for bulk liquids only) list actual in centipoise: cp
Total Suspended Solids (Wt %-for bulk liquids only): [ ] 5-20 [ ] if > 20 list actual: 40-50
pH: [ ] 2-6 [X] 6-10 [ ] 10-12.5 [ ] if < 2 or > 12.5 list actual

Flash Point (closed cup): 0
[ ] < 100°F [ ] > 200°F
[ ] 100°-140°F [ ] ____°F actual
[ ] 140°-200°F

Sulfur (Wt %): [ ] <5 [ ] if > 5 list actual value

Halogens (Wt %): <1 / 1-5 / 5-10 / if >10 list actual Wt %

	<1	1-5	5-10	if >10 list actual Wt %
[ ] Iodine	[X]	[ ]	[ ]	
[ ] Bromine	[X]	[ ]	[ ]	
[ ] Chlorine	[X]	[ ]	[ ]	
[ ] Fluorine	0 actual Wt %			

Metals & Toxicity Test (MG/L)

Arsenic (As)	0	Selenium (Se)	0
Barium (Ba)	0	Silver (Ag)	0
Cadmium (Cd)	0	Copper (Cu)	0
Chromium (Cr)	0	Nickel (Ni)	0
Lead (Pb)	0	Zinc (Zn)	11
Mercury (Hg)	0		

Organics (ppm)

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

If material contains the following compounds, indicate actual ppm

PCB	0	Sulfides	0
Cyanides	0	Dioxin	0

DE0051824

1910

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H. Notes, Additional Information or Special Handling Instructions

Accumulated Solids from Painting operations and
Paint Booth

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 (circle one)

Proper Shipping Name (RQ) WASTE FLAMMABLE LIQUID N.O.S. DOT ID. No. UN/NA UN 1993

Hazard Class FLAMMABLE LIQUID RQ 100 LB

Anticipated Volume 500 (Drums) Gal Yds Lbs ☐ Bulk ☐ Roll

Container Size 55 gal Container Type 17 H

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. Michael J Mayer — Generator's Signature

2. MICHAEL J MAYER — Name (Type or Print)

DEQ051825

3. 1/10/90 — Date

4. CORP. MFGR. — 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.

US V. NSP
PRODUCED BY NSP 9/93
Reasonable
BOX 5 Waste Water Sludge
Unrelated Materials

MSD054

1911

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US V. NSP
PRODUCED BY NSP 9/93
Releasable
REQUEST Hazardous Waste Matter
BOX 5

FRONTIER
CHEMICAL WASTE PROCESS INC.

January 17, 1990

Marine Shale Processors
110 James Drive West
Suite 120
St. Rose, LA 70087

ATTENTION: Mr. K. G. Breisacher IV

Dear K. G.:

For our conversation, the flash point on the paint pigment and paint related material (document number 9000193) will be 70 degrees F. up to 140 degrees F (formerly 8705290). Please make the appropriate changes to our Material Characterization Sheet.

I apologize for the inconvenience and thank you for your help in getting our approval.

Very truly yours,

Michael J. Mayer

Michael J. Mayer
Corporate Development

MJM/lmh

DEQ051826

MSD054
19 12

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

ENVSPC-0003

8705288

88

a Petroleum Disposition Agreement Dated: _____ b/ and between Contractor and: Envirocare Mktg Corp. (Contractor)

c/o Generator Identification No.: NYD043815703 Material is: (Solid Waste) (Hazardous Waste)

General Directions: In order for us to determine whether we can lawfully and safely collect, transport, and use, store, or manufacture products from your material, we must obtain certain information about the chemical and physical properties of the material and its chemical composition. Please be complete in your answers! If your response is "none" or "not available", so indicate. Answers must be printed in ink or typewritten and the completed form must be signed. Please make a copy of this form for your records.

1. Generator Name: Frontier Chemical Waste Process

2. Generating Facility Complete Address: 1626 Royal Ave. N. Falls, NY 14303

3. Authorized Company Representative: Linda Carr Title: Approvals Mgr.

4. Phone Number: 716-285-2581

5. Emergency Contact: Eric Gedion Title: Gen. Mgr. Phone: 716-285-8208

6. General Description of the Waste: Degreaser Waste

7. Process Generating Waste: Cleanup of degreasing areas

8. Anticipated Volume: 100-200 ( ) Gallons ( ) Tons ( ) Cubic Yards, (X) Drums, or ( ) Other: _____ Per: ( ) Day ( ) Week ( ) Month ( ) Year, or (X) Other semi annual

9. Complete waste composition (with ranges - indicate % or ppm.) Attach additional Pages if necessary.

ORGANIC	INORGANIC
Paint Pigments	25-35
Resins	25-35
Gloves, Rags, Plastic, Bags, Cardboard	Balance

10. Waste Properties:

(a.) Vapor pressure (in mm of Hg @ 25°C) N/A

(b.) Flash Point >140 (X) °F ( ) °C (X) Closed Cup ( ) Open Cup

(c.) Phase/Physical: (X) Single ( ) Multiphased ( ) Solid/Liquid

(d.) Physical State @ 20°C: (X) Solid ( ) Liquid ( ) Semi-Solid ( ) Powder ( ) Other _____

(e.) Solubility (g/100g H2O @ 20°C: NONE

(f.) pH 7 - 11

(g.) Density: >1.4 g/ml ( ) lbs/ft.³ ( ) lbs/yd.³ ( ) lbs/gal.

(h.) Mass: ( ) Viscous (X) Solid ( ) Other

(i.) Reactivity:

Hydroscopic ( ) Yes (X) No Autopolymerizable ( ) Yes (X) No

Thermally Sensitive ( ) Yes (X) No Explosive ( ) Yes (X) No

Shock Sensitive ( ) Yes (X) No Pyrophoric ( ) Yes (X) No

(j.) Net BTU value per pound: <5000

(k.) Moisture Content Per Pound: <10

11. Hazardous Waste?: ( ) Yes ( ) No (Not Indicate yes as determined using

(X) Toxicity Tests: As 2.1 ppm Lead 3.1
Ba 25 ppm
Cd 0.6 ppm
Cr 2.7 ppm

12. Hazardous Waste Constituents: (Yes) (No) (Not Indicate % or ppm): Acetone, MEK, Toluene, Xylene 5-10

13. CHLORINE Content: (per cent) 0

14. Sample Included ( ) Yes (X) No.

15. Manifest Information: Proper DOT Shipping Name: Hazardous waste solid, n.o.s. DOT Hazard Class: ORM-E UN or NA No.: NA 9189 RCRA Code: B RCRA Haz. Waste No. (if any): F003, F004, F005

16. This waste contains: Biological Materials: ( ) Yes (X) No; Pathogens: ( ) Yes (X) No; Etiological Agents: ( ) Yes (X) No; Radioactive Materials: ( ) Yes (X) No; PCB's: ( ) Yes (X) No; Dioxins: ( ) Yes (X) No. If yes, specify type (if applicable) and concentration _____

17. Have you obtained Toxicity studies of this waste material? Yes ( ) No (X) If so, please attach a copy of the results.

18. Required personal protective equipment & procedures. _____

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.

Generator Authorized Signature: Linda Carr Title: App. Mgr. Date: 3/25/87

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

US V. MSP PRODUCED BY MSP 9/93 Released to Walker Macy Inc. BOX 5 Unidentified Waste Matter

MSD054

1913

1 55 gal: drum

ENVS/FC-0003
ENVS/FCWP/8705288

MARINE SHALE PROCESSORS, INC.
MATERIALS CHARACTERIZATION DATA SHEET

To Bulk Bulk Disposition Agreement Price: 88 — By and Between Contractor and: Envirosource Mktg Corp (Contractor)

EPA Generator Identification No.: NYD043815703 — Material is: (Solid Waste) (Hazardous Waste)

General Information: In order for us to determine whether we can lawfully and safely collect, transport, and use, treat, or manufacture products from your material, we must obtain certain information about the chemical and physical properties of the material and its chemical composition. Please be complete in your answers: if your response is "none" or "not available", so indicate. Answers must be printed in ink or typewritten and the completed form must be signed. Please make a copy of this form for your records.

1. Generating Plant: Frontier Chemical Waste Process

2. Generating Facility Complete Address: 4626 Royal Ave. N. Falls, NY 14303

3. Authorized Company Representative: Linda Carr — Title: Approvals Mgr.

4. Phone Number: 716-285-2581

5. Emergency Contact: Ernie Gedion — Title: Gen. Mgr. — Phone: 716-285-8208

6. General Description of the Waste: Degreaser Waste

7. Process Generating Waste: clean up of degreasing areas

8. Est Estimated Volume: 100-200 ( ) Gallons ( ) Tons ( ) Cubic Yards, (X) Drums, or ( ) Other ____

Per: ( ) Day ( ) Week ( ) Month ( ) Year, or (X) Other: semiannual

9. Complete waste composition (with ranges - indicate % or ppm). Attach additional Pages if Necessary.

ORGANIC	INORGANIC
Paint Pigments 25-35	
Resins 25-35	
Gloves, Rags, Plastic, Bags, Cardboard Balance	

10. Waste Properties:

(a.) Vapor pressure (in mm of Hg @ 25°C): N/A

(b.) Flash Point: >140 (X°F ( )°C (X) Closed Cup ( ) Open Cup

(c.) Phase/Appearance: (X) Single ( ) Stratified ( ) Multilayer

(d.) Physical State @ 20°C: (X) Solid ( ) Liquid ( ) Semi-Solid ( ) Powder ( ) Other ____

(e.) Solubility (g/100g H2O @ 20°C): NONE

(f.) pH: 7 - 11

(g.) Density: >1.4 g/mL ( ) lbs/ft.³ ( ) lbs/yd.³ ( ) lbs/gal.

(h.) Odor: ( ) Strong (X) Mild ( ) None

(i.) Reactivity:

Hydrophobic ( ) Yes (X) No — Autopolymerizable ( ) Yes (X) No

Thermally Sensitive ( ) Yes (X) No — Explosive ( ) Yes (X) No

Shock Sensitive ( ) Yes (X) No — Pyrophoric ( ) Yes (X) No

(j.) Net BTU value per pound: <5000

(k.) Halogen Content Per Pound: <10

11. Hazardous Metals: ( ) Yes ( ) No — List (Indicate ppm or determined using (X) Toxicity Testing):

As 2.1 ppm Lead 3.1
Ba 25 ppm
Cd 0.6 ppm
Cr 2.7 ppm

12. Hazardous Waste Constituents: (Yes) (No) List (Indicate % or ppm):

Acetone, MEK, Toluene, Xylene 5-10

12. CHLORINE Content: (per cent) 0

13. Sample Included ( ) Yes (X) No.

14. Manifest Information:

Proper USDOT Shipping Name	USDOT Hazard Class	UN or NA No.	USEPA Haz. Waste No. (Class)
Hazardous Waste Solid.	ORM-E	NA 9189	B	F003, F004, F005

15. This waste contains: Biological Materials-( ) Yes (X) No; Pathogens-( ) Yes (X) No; Etiological Agents-( ) Yes (X) No; Radioactive Materials-( ) Yes (X) No; PCB's-( ) Yes (X) No; Dioxin-( ) Yes (X) No. If yes, specify type (if applicable) and concentration ____

16. Have you obtained toxicity studies of this waste material? Yes ( ) No (X) If so, please attach a copy of the results.

17. Required personnel protective equipment & procedures. ____

DEQ051827

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.

Generator Authorized Signature: Linda Carr — Title: App. Mgr. — Date: 3/25/87

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U.S. EPA REGION II RECORDS MANAGEMENT BRANCH
PRODUCED BY MSP 9/93
Reasonable request for additional waste characterization may be made.

MSD054

19 19

ENVS/FC-0003

ENVIROSURE

September 1, 1987

Marine Shale Processors Inc.
110 James Drive West
Suite 120
St. Rose, Louisiana 70087

ATTENTION: Mr. Jeff Litch

Dear Mr. Litch:

This letter will confirm your phone conversation today with our Ken Knight regarding a modification to our approval number ENVS/FC - 0003.

Please modify as follows:

Change flashpoint from >140 to read >70. Add waste number D001 to F003, F004 and F005. Change DOT shipping name to waste flammable solid. Change UN/NA number to UN1325. Change US DOT hazard class to flammable solid.

If you have any questions, please call me or Ken Knight.

Sincerely,

for Linda Carr

Linda Carr
Approvals Manager

Kenneth W. Knight
V.P. Sales

LC/lmm

cc: M. Mc Cormick

DEQ051828

ENVIROSURE MARKETING CORP. / 4626 Royal Ave., Niagara Falls, NY 14303 / (716) 285-2581
CORPORATE HEADQUARTERS / 333 Ganson St., Buffalo, NY 14203 / (716) 854-3611

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US V. MSP
PRODUCED BY MSP 9/93
Releasable
REQUEST
Underground storage tanks waste manifest
MSD054
19 19

55 gal. drum

ENVS/FC-0003

MARINE SHALE PROCESSORS, INC.
MATERIALS CHARACTERIZATION DATA SHEET

To Materials Disposition Agreement Dated: _____ By and Between Contractor and Envirosource Mktg Corp. ("Customer")

US Generator Identification No. NYD043815703 Material is (Solid Waste) (Hazardous Waste)

General Directions: In order for us to determine whether we can lawfully and safely collect, transport, and use, reuse, or manufacture products from your material, we must obtain certain information about the chemical and physical properties of the material and its chemical composition. Please be complete in your answers: If your response is "none" or "not available", so indicate. Answers must be printed in ink or typewritten and the completed form must be signed. Please make a copy of this form for your records.

1. Generating Plant: Frontier Chemical Waste Process

2. Generating Facility Complete Address: 4626 Royal Ave. N. Falls, NY 14303

3. Authorized Company Representative: Linda Carr Title: Approvals Mgr.

4. Phone Number: 716-285-2581

5. Emergency Contact: Ernie Gedion Title: Gen. Mgr. Phone: 716-285-8208

6. General Description of the Waste: Degreaser Waste

7. Process Generating Waste: Clean up of degreasing areas

8. Anticipated Volume: 100-200 ( ) Gallons ( ) Tons ( ) Cubic Yards, (X) Drums, or ( ) Other: _____ Per: ( ) Day ( ) Week ( ) Month ( ) Year, or (X) Other: semiannual

9. Complete waste composition (with ranges - indicate % or ppm.) Attach additional Pages If Necessary.

ORGANIC		INORGANIC	
Paint Pigments	25-35		
Resins	25-35		
Gloves, Rags, Plastic, Bags, Cardboard	Balance		

10. Waste Properties:

(a.) Vapor pressure (in mm of Hg @ 25°C) N/A

(b.) Flash Point >140 (X)°F ( )°C ( )Closed Cup ( )Open Cup

(c.) Phase/Appearance: (X)Single ( )Stratified ( )Multilayer

(d.) Physical State @ 20°C: (X)Solid ( )Liquid ( )Semi-Solid ( )Powder ( )Other _____

(e.) Solubility (g/100g H_2O) @ 20°C: NONE

(f.) pH 7 - 11

(g.) Density: >1.4 g/ml ( )lb/ft.³ ( )lb/yd.³ ( )lb/gal.

(h.) Odor: ( )Strong (X)Mild ( )None

(i.) Reactivity:

Hydrophobic ( )Yes (X)No Autopolymerizable ( )Yes (X)No

Thermally Sensitive ( )Yes (X)No Explosive ( )Yes (X)No

Shock Sensitive ( )Yes (X)No Pyrophoric ( )Yes (X)No

(j.) Net BTU value per pound: <5000

(k.) Moisture Content Per Pound: <10

11. Hazardous Metals: ( )Yes ( )No List (indicate ppm as determined using TCLP Toxicity Tests): As 2.1 ppm Lead 3.1 Ba 25 ppm Cd 0.6 ppm Cr 2.7 ppm

12. Hazardous Waste Constituents: (Yes) (No) List (indicate % or ppm): Acetone, MEK, Toluene, Xylene 5-10

12. CHLORINE Content: (per cent) 0

13. Sample Included ( ) Yes (X) No.

14. Manifest Information: Process DOT Shipping Name: Hazardous Waste Solid. | MSMA Hazard Class: ORM-E | NA or ID No.: NA9189 | MSAUE Haz. Code: B | MSTA Haz. Waste No. (Class): F003, F004, F005

15. This waste contains: Biological Materials-( )Yes (X)No; Pathogens-( )Yes (X)No; Etiological Agents-( )Yes (X)No; Radioactive Materials-( )Yes (X)No; PCB's-( )Yes (X)No; Blanks-( )Yes (X)No. If yes, specify type (if applicable) and concentration _____

16. Have you obtained toxicity studies of this waste material? Yes ( ) No (X) If so, please attach a copy of the results.

17. Required personal protective equipment & procedures. _____

DEQ051829

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.

Generator Authorized Signature: Linda Carr Title: App. Mgr. Date: 3/25/87

RECEIVED

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US V. MSP PRODUCED BY MSP 9/93 Releasable

BOX 45 REQUEST Hazardous Waste Manifest

MSD054

19 18

SEP 25 1989

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

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

MCDS Document # 89115080

MSP CODE: FCWP/FCWP/890508D

Generator Name: FRONTIER CHEMICAL WASTE PROCES
Facility Address: 4626 ROYAL
City, State, Zip: NIAGARA FALLS NY 14303
Technical Contact: MIKE MAYER
Title: CORP. DEVELOPMENT
Telephone NO. (716) 285-2581 EXT:
Facility EPA ID # NYD 043 615 703 by letter

Bill To: SAME
Address:
City, State, Zip:
Telephone #: (716) 285-8208
Company Contact: MIKE MAYER
Container Size: 85 GALLON
EPA Waste No. F001, F002, F003, F024, F005
Generating Process: CRUSHING DRUMS
Common Name of Waste: CRUSHED DRUMS
Rate of Generation: 200 (Quan) DRUMS (Units) PER MONTH (Time Interval)
Volume in Storage: 160 (Quan) DRUM (Units) IN 85 gal O/P (Container Size and Type)

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

CRUSHED DRUMS CONTAINING	100 %
UP TO 4" OF RESIDUAL	%
SLUDGES IN 85 GAL	%
OVERPACK	%
	%
	%
	%
	%

Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name (RQ) WASTE FLAMMABLE, SOLID, N.O.S.
Hazard Class FLAM ID No. UN1993
Transportation Equipment BOX VAN
Placarding FLAMMABLE

METALS (EP Toxicity Test, mg/l)

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

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	< 1%		

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	[X] Solid			
Phases/Layering	[X] Uni-Layer		[ ] Bilayer	[ ] Multilayer			
Viscosity	[X] High		[ ] Medium	[ ] Low			
Type of Solids	[ ] Organic		[ ] Inorganic	[X] Mixed			

Total Solids (wt. %) 100 Suspended Solids (wt. %) 100
BTU/lb < 1000 % Ash Content 3 % Water (by weight) 0
Flash Point (°F) < 100°F Type CLOSED CUP
Specific Gravity 1.2
Boiling Point, (°C) NONE Freezing Point, (°C) NONE
Vapor Pressure (mm Hg @ 24°C) N/A
pH (Avg) 6-8 (Range) 6 to 8
Total Alkalinity/Acidity (%) 0
Odor PAINTLIKE
Color VARIES

HAZARDOUS PROPERTIES

[ ] Water Reactive	[ ] Reactive	[ ] NONE	
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Explosive	
[ ] Radioactive	[ ] Pesticide Residuals	[X] Ignitable	
[ ] Corrosive	[ ] Toxic Vapor	[ ] Polymerizable	
[ ] Biological	[ ] Etiological	[ ] Pathogen	
[ ] 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 9/19/89 GENERATOR'S SIGNATURE: Michael O. Mayer

DE0051830

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MSD054

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US v. NSP
PRODUCED BY NSP 9/93
Releasable
REQUEST #
BOX #
Updated data added to Master
INDEX

JUN 06 1990

FRONTIER
CHEMICAL WASTE PROCESS INC.

May 29, 1990

Marine Shale Processors
110 James Drive West
Suite 120
St. Rose, LA 70087

ATTENTION: Mr. Greg Horne

Dear Greg:

With regards to our approval #8905080, I would like to add EPA code D001. The material will be ignitable as well as listed.

If you have any questions or need any further information, please feel free to call me at (716) 285-8208.

Very truly yours,

Michael J. Mayer

Michael J. Mayer
Off-Site Approvals Manager

MJM/lmm

DEQ051831

MSD054
1918

SEP 25 1989

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

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

MCDS Document # 89115080

MSP CODE: FCWP/FCWP/8905080

Generator Name: FRONTIER CHEMICAL WASTE PROCES
Facility Address: 4626 ROYAL
City, State, Zip: NIAGARA FALLS NY 14303
Technical Contact: MIKE MAYER
Title: CORP. DEVELOPEMENT
Telephone NO. (716) 285-2581 EXT:
Facility EPA ID #: NYD 043 615 703
NYD 043 615 703 by lab

Bill To: SAME
Address:
City, State, Zip:
Telephone #: (716) 285-8208
Company Contact: MIKE MAYER
Container Size: 85- GALLON
EPA Waste No. F001, F002, F003, F004, F005
Generating Process: CRUSHING DRUMS
Common Name of Waste: CRUSHED DRUMS
Rate of Generation: 200 (Quan) DRUMS (Units) PER MONTH (Time Interval)
Volume in Storage: 160 (Quan) DRUM (Units) IN 85 gal O/P (Container Size and Type)

Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name: (RQ) WASTE FLAMMABLE SOLID N
Hazard Class: FLAM ID No.: UN1993
Transportation Equipment: BOX VAN
Placarding: FLAMMABLE

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

CRUSHED DRUMS CONTAINING	100 %
UP TO 4" OF RESIDUAL	%
SLUDGES IN 85 GAL	%
OVERPACK	%
	%
	%
	%
	%

METALS (EP Toxicity Test, mg/l)

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

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	< 1%		

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		

DEC051832

PHYSICAL DESCRIPTION

Physical State	[ ] Liquid	[ ] Semi-solid	[X] Solid				
Phases/Layering	[X] Uni-Layer	[ ] Bilayer	[ ] Multilayer				
Viscosity	[X] High	[ ] Medium	[ ] Low				
Type of Solids	[ ] Organic	[ ] Inorganic	[X] Mixed				

Total Solids (wt. %) 100 Suspended Solids (wt. %) 100
BTU/lb < 1000 % Ash Content 3 % Water (by weight) 0
Flash Point (°F) < 100°F Type CLOSED CUP
Specific Gravity 1.2
Boiling Point, (°C) NONE Freezing Point, (°C) NONE
Vapor Pressure (mm Hg @ 24°C) N/A
pH (Avg) 6-6 (Range) 6 to 8
Total Alkalinity/Acidity (%) 0
Odor PAINTLIKE
Color VARIES

HAZARDOUS PROPERTIES

[ ] Water Reactive	[ ] Reactive	[ ] NONE	
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Explosive	
[ ] Radioactive	[ ] Pesticide Residuals	[X] Ignitable	
[ ] Corrosive	[ ] Toxic Vapor	[ ] Polymerizable	
[ ] Biological	[ ] Etiological	[ ] Pathogen	
[ ] 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 9/19/89 GENERATOR'S SIGNATURE

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US v. MSP PRODUCED BY MSP 9/93 Releasable

MSD054

9/19

SEP 25 1989

MARINE STATE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

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

MCDS Document # 8905080 MSP CODE: FCWP/FCWP/8905080

Generator Name: FRONTIER CHEMICAL WASTE PROCESS
Facility Address: 4626 ROYAL
City, State, Zip: NIAGARA FALLS NY 14303
Technical Contact: MIKE MAYER
Title: CORP. DEVELOPMENT
Telephone NO. (716) 285-2581 EXT:
Facility EPA ID #: NYD 043 815 03

Bill To: SAME
Address:
City, State, Zip:
Telephone #: (716) 285-8108
Company Contact: MIKE MAYER
Container Size: 85 GALLON
EPA Waste No.: F001, F002, F003, F004, F005
Generating Process: CRUSHING DRUMS
Common Name of Waste: CRUSHED DRUMS
Rate of Generation: 200 (Quant) DRUMS (Units) PER MONTH (Time Interval)
Volume in Storage: 160 (Quant) DRUM (Units) IN 85 gal (Container Size and Type) O/P

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

CRUSHED DRUMS CONTAINING	100 %
UP TO (4") OF RESIDUAL	%
SLUDGES IN 85 GAL	%
OVERPACK	%
	%
	%
	%
	%

Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name (RQ) WASTE FLAMMABLE SOLID NOS
Hazard Class FLAM ID No. UN 1993
Transportation Equipment BOX VAN
Placarding FLAMMABLE

METALS (EP Toxicity Test, mg/l)

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

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	<1%		

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	[X] Solid	
Phases/Layering	[X] Uni-Layer	[ ] Bilayer	[ ] Multilayer	
Viscosity	[X] High	[ ] Medium	[ ] Low	
Type of Solids	[ ] Organic	[ ] Inorganic	[X] Mixed	

Total Solids (wt. %) 100 Suspended Solids (wt. %) 100
BTU/lb <1000 % Ash Content 30 % Water (by weight) 0
Flash Point (°F) <100°F Type CLOSED CUP
Specific Gravity 1.2
Boiling Point, (°C) NONE Freezing Point, (°C) NONE
Vapor Pressure (mm Hg @ 24°C) N/A
pH (Avg) 6-8 (Range) 6 to 8
Total Alkalinity/Acidity (%) 0
Odor PAINTLIKE
Color VARIES

HAZARDOUS PROPERTIES

[ ] Water Reactive	[ ] Reactive	[ ] Explosive	[ ] NONE
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Polymerizable	
[ ] Radioactive	[ ] Pesticide Residuals	[X] 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 9/19/89 GENERATOR'S SIGNATURE: Michael J. Mayer

DEQ051833

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US V. MSP Releasable PRODUCED BY MSP 9/93 REQUEST # 5 Hazardous Waste Manifests BOX

MSD054

1920

SEP 25 1989

MARINE STATE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

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

MCDS Document # 8905080

MSP CODE: FCWP/FCWP/8905080

Generator Name: FRONTIER CHEMICAL WASTE PROCESS
Facility Address: 4626 ROYAL
City, State, Zip: NIAGARA FALLS NY 14303
Technical Contact: MIKE MAYER
Title: CORP. DEVELOPMENT
Telephone NO. (716) 285-2581 EXT:
Facility EPA ID #: NYD 043815 03

Bill To: SAME
Address:
City, State, Zip:
Telephone #: (716) 285-8208
Company Contact: MIKE MAYER
Container Size: 85 GALLON
EPA Waste No. F001 F002 F003 F004 F005
Generating Process: CRUSHING DRUMS
Common Name of Waste: CRUSHED DRUMS
Rate of Generation: 200 (Quant) DRUMS (Units) PER MONTH (Time Interval)
Volume in Storage: 160 (Quant) DRUM (Units) IN 85 gal O/P (Container Size and Type)

Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name (RQ) WASTE FLAMMABLE SOLID N.O.S.
Hazard Class FLAM ID No. UN1993
Transportation Equipment BOX VAN
Placarding FLAMMABLE

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

CRUSHED DRUMS CONTAINING UP TO (4") OF RESIDUAL SLUDGES IN 85 GAL OVERPACK — 100 %

METALS (EP Toxicity Test, mg/l)

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

INORGANICS (mg/l or ppm)

Total CN	0	Iodine	0
Free CN	0	Asbestos	0
Sulfide	0		
Chloride	0 ppm		
Bisulfite	0		
Sulfite	0		
Sulfate	0		
Phosphate	0		
Fluorine	0		
Bromine	0		
Chlorine	<1%		

ORGANICS (mg/l or ppm)

Endrin	0	Organohalide Mercaptans	0
Methoxychlor	0		0
Toxaphene	0		
2, 4-D	0		
2,4,5-T	0		
Phenol(ics)	0		
PCBs	0		
Dioxin	0		
TOC	0		

PHYSICAL DESCRIPTION

Physical State	[ ] Liquid	[ ] Semi-solid	[X] Solid	
Phases/Layering	[X] Uni-Layer	[ ] Bilayer	[ ] Multilayer	
Viscosity	[X] High	[ ] Medium	[ ] Low	
Type of Solids	[ ] Organic	[ ] Inorganic	[X] Mixed	

Total Solids (wt. %) 100 Suspended Solids (wt. %) 100
BTU/lb <1000 % Ash Content 30 % Water (by weight) 0
Flash Point (°F) <100°F Type CLOSED CUP
Specific Gravity 1.2
Boiling Point, (°C) NONE Freezing Point, (°C) NONE
Vapor Pressure (mm Hg @ 24°C) N/A
pH (Avg) 6-8 (Range) 6 to 8
Total Alkalinity/Acidity (%) 0
Odor PAINT LIKE
Color VARIES

HAZARDOUS PROPERTIES

[ ] Water Reactive	[ ] Reactive	[ ] NONE	
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Explosive	
[ ] Radioactive	[ ] Pesticide Residuals	[X] Ignitable	
[ ] Corrosive	[ ] Toxic Vapor	[ ] Polymerizable	
[ ] Biological	[ ] Etiological	[ ] Pathogen	
[ ] 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.

DEQ051834

DATE 9/19/89 GENERATOR'S SIGNATURE: Michael J Mayer

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US V. MSP Releasable
PRODUCED BY MSP 9/93
REQUEST # ____
BOX # 5 Unprocessed Waste Water
PAGES ____

MSD054

1922

OCT 25 1989

FRONTIER
CHEMICAL WASTE PROCESS INC.
4626 Royal Avenue, Niagara Falls, New York 14303
Phone (716) 285-8208

October 9, 1989

Marine Shale Processors Inc.
P. O. Box 1698
Kenner, LA 70063

ATTENTION: Mr. K. G. Breifacher

Dear K. G.:

Please be advised that the EPA ID Number for Frontier Chemical is:

NYD043815703

Please amend the approval as needed. Sorry for the inconvenience.

Very truly yours,

Michael J. Mayer
Corporate Development

MJM/lnm

DEQ051835

55 gal. drums

MARINE SHALE PROCESSORS, INC.
MATERIALS CHARACTERIZATION DATA SHEET

ENVS/FC-0002
ENVS/FCWP/8705289

'89

By and Between Contractor and Envirocare Mktg Corp. (Customer)

Generator ID# (If Available) No. NYD043815703

Material is (Solid Waste) (Hazardous Waste)

General Discussion: In order for us to determine whether we can lawfully and safely collect, transport, and use, recycle, or manufacture products from your materials, we must obtain certain information about the chemical and physical properties of the material and its chemical composition. Please be complete in your answers: If your response is "none" or "not applicable", so indicate. Answers must be printed in ink or typewritten and the completed form must be signed. Please make a copy of this form for your records.

1. Generator Point: Frontier Chemical Waste Process

2. Generating Facility Complete Address: 4626 Royal Ave. N. Falls, NY 14303

3. Authorized Company Representative: Linda Carr
Title: Approvals Mgr.

4. Phone Number: 716-285-2531

5. Emergency Contact: Ernie Gideon
Title: Gen. Mgr. Phone: 716-285-9208

6. General Description of the Waste: Degreaser Waste

7. Process Generating Waste: Cleanup of degreasing areas

8. Anticipated Volume: 100-200 ( ) Gallons ( ) Tons ( ) Cubic Yards, (X) Drums, or ( ) Other:
Per: ( ) Day ( ) Week ( ) Month ( ) Year, or (X) Other semiannual

9. Complete waste composition (with ranges - indicate % or ppm.) Attach Additional Pages If Necessary.

INCLUDE	EXCLUDE
Paint Pigments	25-35
Resins	25-35
Gloves, Bags, Plastic, Cardboard, Bags	Balance

10. Waste Properties:
(a.) Vapor pressure (in mm of Hg @ 25°C) N/A
(b.) Flash Point >140 (X)°F ( )°C (Closed Cup) ( ) Open Cup
(c.) Phase(s) present: (X) Single ( ) Biphasic ( ) Multiphase
(d.) Physical State @ 25°C: (X) Solid ( ) Liquid ( ) Dust-Solid ( ) Powder ( ) Other
(e.) Solubility (grams/liter) @ 20°C NCGIE
(f.) pH 7 - 11
(g.) Density: >1.4 g/ml ( ) lbs/ft.³ ( ) lbs/gal.
(h.) Odor: ( ) Strong (X) Mild ( ) None
(i.) Reactivity:
Hydrogen Cyanide: ( ) Yes (X) No Autopolymerizable: ( ) Yes (X) No
Thermally Sensitive: ( ) Yes (X) No Explosive: ( ) Yes (X) No
Shock Sensitive: ( ) Yes (X) No Pyrophoric: ( ) Yes (X) No
(j.) Net BTU value per pound: <5000
(k.) Moisture Content Per Pound: <10

11. Hazardous Waste: ( ) Yes ( ) No (List Constituents or determined using)
(X) Toxicity Testing: As 1.6 ppm
Ba 30 ppm Lead 4.0 ppm
Cd 0.4 ppm
Cr 3.6 ppm

12. Hazardous Waste Constituents: (Check that List Constituents & or ppm)
Acetone, Mek, Toluene, Xylene 5-10
1,1,1 TCE, Trichlor, Perchlor, MeCl, 5-15

12. Calcium Content: (per cent) 5-15

13. Sample Included ( ) Yes ( ) No.

14. Manifest Information:

Proper RCRA Shipping Name	USDOT Hazard Class	UN or NA No.	USDOT Haz. Code	USEPA Haz. Waste No. (Class)
Hazardous Waste Solid	ORM-E	NA 9189	B	F001 F002

15. This waste contains: Biological Materials: ( ) Yes (X) No; Pathogens: ( ) Yes (X) No; Etiological Agents: ( ) Yes (X) No; Radioactive Materials: ( ) Yes (X) No; PCB's: ( ) Yes (X) No; Dioxins: ( ) Yes (X) No. If yes, specify type and applicables and concentration _____.

16. Have you obtained Toxicity studies of this waste materials? Yes ( ) No (X) If so, please attach a copy of the results.

17. Required personal protective equipment & procedures: _____ DEQ051836

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.

Generator Authorized Signature: Linda Carr Title: App. Mgr. Date: 3/25/87

RECEIVED

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US V. MSP PRODUCED BY MSP 9/93 Releasable
REQUEST
BOX
MSD054
1923

Salvage!

55 gal. drums

MARINE SHALE PROCESSORS, INC. ENVS/FC-0002
MATERIALS CHARACTERIZATION DATA SHEET

To Materials Disposition Agreement Dated: _____ By and Between Contractor and Envirosure Mktg Corp (Customer)
EPA Generator Identification No. NYD043815703 Material Is (Solid Waste) (Hazardous Waste)

General Directions: In order for us to determine whether we can lawfully and safely collect, transport, and use, reuse, or manufacture products from your material, we must obtain certain information about the chemical and physical properties of the material and its chemical composition. Please be complete in your answers: if your response is "none" or "not available", so indicate. Answers must be printed in ink or typewritten and the completed form must be signed. Please make a copy of this form for your records.

1. Generator Name: Frontier Chemical Waste Process
2. Generating Facility Complete Address: 4626 Royal Ave. N. Falls, NY 14303
3. Authorized Company Representative: Linda Carr Title: Approvals Mgr.
4. Phone Number: 716-285-2551
5. Emergency Contact: Ernie Gideon Title: Gen. Mgr Phone: 716-285-3208
6. General Description of the Waste: Degreaser Waste
7. Process Generating Waste: cleanup of degreasing areas
8. Anticipated Volume: 100-200 ( ) Gallons ( ) Tons ( ) Cubic Yards, (X) Drums, or ( ) Other: _____
   Per: ( ) Day ( ) Week ( ) Month ( ) Year, or (X) Other semiannual
9. Complete waste composition (with ranges + indicate # or ppm.) Attach Additional Pages If Necessary.

Include	Exclude	
Paint Pigments	25-35	
Resins	25-35	
Gloves, Rags, Plastic, Cardboard, Bags	Balance	

10. Waste Properties:
   (a.) Vapor pressure (in mm of Hg @ 25°C) N/A
   (b.) Flash Point >140 (X)°F ( )°C (X)Closed Cup ( ) Open Cup
   (c.) Phases/Layers: (X)Single ( ) Bilayered ( ) Multilayer
   (d.) Physical State @ 20°C: (X)Solid ( ) Liquid ( ) Semi-Solid ( ) Powder ( ) Other _____
   (e.) Solubility (g/100g H_2O) @ 20°C: NGSE
   (f.) pH 7 - 11
   (g.) Density: >1.4 g/ml ( ) lb/ft.³ ( ) lb/yd.³ ( ) lb/gal.
   (h.) Odor: ( ) Strong (X)Mild ( ) None
   (i.) Reactivity:
   Hydrolyzable ( ) Yes (X)No Autopolymerizable ( ) Yes (X)No
   Thermally Sensitive ( ) Yes (X)No Explosive ( ) Yes (X)No
   Shock Sensitive ( ) Yes (X)No Pyrophoric ( ) Yes (X)No
   (j.) Net BTU value per pound: <5000
   (k.) Moisture Content Per Pound: <10
11. Hazardous Metals: ( ) Yes ( ) No List Indicate ppm or ppb:
   (a) Toxicity Tests: As 1.6 ppm
   Ba 30 ppm Lead 4.0 ppm
   Cd 0.4 ppm
   Cr 3.6 ppm
12. Hazardous Waste Constituents: (Yes) (No) List Indicate # or ppm:
   Acetone, MeK, Toluene, Xylene 5-10
   1,1,1 TCE, Trichlor, Perchlor, $MeCl_2$ 5-15
13. CHLORINE Content: (per cent) 5-15
14. Sample Included ( ) Yes ( ) No.
15. Manifest Information:

Primary USDOT Shipping Name	USDOT Hazard Class	ID or NA No.	USAGLE Haz. Code	USEPA Haz. Waste No. (If any)
Hazardous waste solid	ORM-E	NA 9189	B	F001 F002

16. This waste contains: Biological Materials-( ) Yes (X)No; Pathogens-( ) Yes (X)No; Etiological Agents-( ) Yes (X)No; Radioactive Materials-( ) Yes (X)No; PCB's-( ) Yes (X)No; Biocides-( ) Yes (X)No. If yes, specify type (if applicable) and concentration _____
17. Have you obtained Toxicity studies of this waste material? Yes ( ) No (X) If so, please attach a copy of the results.
18. Required personnel protective equipment & procedures. _____ DEQ051837

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.

Generator Authorized Signature: Linda Carr Title: App. Mgr. Date: 3/25/87

RECEIVED MAR 2 0 1987

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REQUEST
BOX
Unpublished Materials

MSD054

1925

FRONTIER
CHEMICAL WASTE PROCESS INC.

January 17, 1990

Marine Shale Processors
J10 James Drive West
Suite 120
St. Rose, LA 70087

ATTENTION: Mr. K. G. Breicacher IV

Dear K. G.:

Please amend our approval Number 8705289, to include EPA Waste Codes F003 and F005 as well as the F001 and F002 already on the approval.

If you have any questions or problems with this request, please feel free to call me at (716) 285-8208.

Very truly yours,

Michael J. Mayer

Michael J. Mayer
Corporate Development

MJM/lmm

DEQ051838

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

RECYCLE / REUSE ✓

MANIFEST 014859

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 1 of | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
The Ducane Company ✓
115 West Main Street
Blackville, SC 29817 ✓

4. Generator's Phone ( ) [illegible]

5. Transporter 1 Company Name: HWT Inc ✓ | 6. US EPA ID Number: PAD981738958

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: LAD981057706 ✓

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone: 216-650-0991
E. State Transporter's ID
F. Transporter's Phone: 803 794 8174
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 Paint Related Material Flammable Liquid, [illegible] 1263	063		31500		F003 ✓ F005 ✓ R D001 ✓
b.					R
c.					R
d.					R

J. Additional Descriptions for Materials Listed Above: RECYCLE / REUSE
Approval Code: RMGI/DUC/9001915 ✓

K. Handling Codes for Wastes Listed Above

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.

GENERATOR

Printed/Typed Name: Frank C Ducane ✓ | Signature: [signature] ✓ | Month Day Year: 09 22 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Caleb Corbett ✓ | Signature: [signature] ✓ | Month Day Year: 09 22 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space
DEQ051839

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 Cramer | Signature: [signature] | Month Day Year: 09 24 90

EPA Form 8700-22 (Rev. 9-91) WHITE - DEQ GREEN - Generator YELLOW - Transporter PINK -

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BOX 5 Hazardous Waste Manifests

MSD054

1926 F

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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

APR 16 1990

~~9002075~~ 9001915

For MSP Use Only
Approval Code RMG-I-Doc/9001915

A. Generator Information

Generator Name THE DURANE COMPANY
Site Address 118 WEST MAIN STREET
City BLACKVILLE State S.C. Zip Code 29817
Generator Contact MARTY SCHUMPERT
Title ENVIRONMENTAL MANAGER
Telephone No. (803) 266 7423
Facility EPA I.D. No. SCD 045 634 326

B. Customer Information

Company Name RESOURCE MANAGEMENT INC.
Contact DON DILLS
Address P.O. BOX 457
CHAPIN, S.C. 29036
Telephone No. (803) 345 0200
For Customer Use

US V. MSP PRODUCED BY MSP 9/93 Releasable
REQUEST Waste Analysis
BOX 5 Waste Characterization

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.
FLOOR DRY	65 %	75 %
WASTE PAINT	5 %	10 %
WASTE SHREDDABLE MATERIAL	1 %	5 %
TOLUENE	2 %	5 %
XYLENE	2 %	5 %

Common Name of Waste:

E. General Characteristics

Color: DARK
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 TO 5%
BTU's per lb (list actual value): 4,000
Water (Wt %): ✓ <1 ☐ 5-10 ☐ 1-5 if > 10 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 NA
Viscosity (for bulk liquids only) list actual in centipoise: NA cp
Total Suspended Solids (Wt %-for bulk liquids only): ☐ 5-20 if > 20 list actual NA
pH: ☐ 2-6 ✓ 6-10 ☐ 10-12.5 if < 2 or > 12.5 list actual ____

NA = DOES NOT APPLY

Flash Point (closed cup): ☐ < 100°F ☐ > 200°F ✓ 100°-140°F ☐ 140°-200°F ☐ ____ °F actual
Sulfur (Wt %): ✓ < 5 if > 5 list actual value ____
Halogens (Wt %): <1 / 1-5 / 5-10 / if > 10 list actual Wt %

	<1	1-5	5-10	if > 10 list actual Wt %
☐ Iodine	✓	☐	☐	
☐ Bromine	✓	☐	☐	
☐ Chlorine	✓	☐	☐	
☐ Fluorine	0 actual Wt %			

Metals: EP Toxicity Test (MG/L)

Arsenic (As)	<5	Selenium (Se)	<1
Barium (Ba)	<100	Silver (Ag)	<5
Cadmium (Cd)	<1	Copper (Cu)	—
Chromium (Cr)	<5	Nickel (Ni)	—
Lead (Pb)	<5	Zinc (Zn)	—
Mercury (Hg)	<.2		

Organics (ppm)

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

If material contains the following compounds, indicate actual ppm:

PCB	0
Cyanides	0
Sulfides	0
Dioxin	0

NC - Non Corrosive

DE00513840

MSD054

1921

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H. Notes, Additional Information or Special Handling Instructions

WASTE MATERIAL IS GENERATED FROM A SPRAY BOOTH CLEAN UP. CONTAINS FLOOR DRY, WOOD SCRAPS, PLASTIC BAGS AND OTHER SHREDDABLE DEBRI

Generating 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: WASTE PAINT RELATED MATERIAL — DOT I.D. No. — (circle one) UN/NA — NA 1263

Hazard Class: FLAMMABLE LIQUID — RQ

Anticipated Volume: 80 (Drums) Gal Yds Lbs ☐ Bulk ☐ Roll

Container Size: 55 GALLON — Container Type: METAL DRUMS

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. Marty Shumpert — Generator's Signature

2. Marty Shumpert — Name (Type or Print)

3. 4/12/90 — Date

4. Environmental Manager — 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.

DEQ051841

MSP Form 1040 B Rev. 10/89

U.S. v. MSP Releasable
PRODUCED BY MSP 9/93
REQUEST
Unpainted plastic waste material MCDS
MSD054
1928

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

RECYCLE / REUSE

MANIFEST Nº 016205

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. CIAD010093136 | Manifest Document No. 101010101010 h

2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Grow Group
760 So Vail Montebello CA 90640

4. Generator's Phone (314) 724-6530

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: Odyssey Transport
6. US EPA ID Number: CIAD010181321
C. State Transporter's ID: 101441
D. Transporter's Phone: (213) 221-8442

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: LAD981051706
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 FLAMMABLE SOLID, N.O.S. FLAMMABLE SOLID UN1325	0104	DM	010210	G	D001 R
b.					R
c.					R
d.					R

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
EREC / GGR / 9003194

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Gloves & Goggles

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.

GENERATOR

Printed/Typed Name	Signature	Month Day Year
LEO HEAD	Leo Head	10/11/90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
John D. Carter	John D. Carter	10/16/90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

FACILITY

19. Discrepancy Indication Space
DEQ051842

20. 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
Glen Privett		10/17/90

EPA Form 8700-22 (Rev. 9-88) WHITE – DEQ GREEN – Generator, YELLOW – TSDRF, BLUE – Transporter 2, PINK – Transporter 1, GOLD – Generator [illegible]

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US v. MSD
PRODUCED BY MSD 9/93
Releasable
REQUEST # [illegible]
BOX [illegible]
Hazardous Waste Manifests

MSD054

1929

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MATERIALS CHARACTERIZATION DATA SHEET

EREC/GGE/9003194

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

JUN 14 1990

For MSP Use Only
Approval Code 9003194

A. General Information

Company Name: Grow Corp.
Address: 760 So. Vail
City: Montebello State: CA Zip Code: 90640
Generator Contact: Tony Eggleson
Title: Facilities Mgr.
Telephone No.: 714 724-6530
Facility EPA I.D. No.: CAD009380890

B. Customer Information

Company Name: Enviroser
Contact: Fred Pell
Address: P.O. Box 93716
Sepulveda CA 91393
Telephone No.: (818) 891-1495
For Customer Use:

C. Regulatory Information

(Y) RCRA Regulated ( ) Land Ban ( ) Non-Regulated EPA Waste Code(s): D001

D. Chemical Composition

NO TRADE NAMES – Ranges must not exceed 20%. Total in minimum column must be greater than or equal to 100%

	MIN	MAX
Carrier: Oil Sludge	100%	

Common name of waste:

E. General Characteristics

Color: Brown/Black
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 percent Wt %): 5
Water (Wt %): ( ) <1 ( ) 5-10 (•) 1-5 ( ) if > 10 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
Viscosity (for bulk liquids only) list actual in centipoise: cp
Total Suspended Solids (Wt % for bulk liquids only): ( ) 5-20 ( ) if > 20 list actual
pH: ( ) 2-6 (•) 6-10 ( ) 10-12.5 ( ) if < 2 or > 12.5 list actual
BTU's per lb (list actual value): 10800

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

Halogens (Wt %): <1 / 1-5 / 5-10
( ) Iodine ( ) ( ) ( )
( ) Bromine ( ) ( ) ( )
( ) Chlorine ( ) ( ) ( )
( ) Fluorine ( ) ( ) ( )
If >10 list actual Wt %:

n/s none suspected

Metals: EP Toxicity Test (MG/L)

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

Organics (ppm)

Endrin	n/s		
Lindane	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

DEQ051843

U.S.V. MSP Releasable
PRODUCED BY MSP 9/92
REQUEST
MSD054
DEQ 1990

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U.S. v. NSP Releasable
PRODUCED BY NSP 9/93
REQUEST
BOX 5

H. Notes, Additional Information or Special Handling Instructions

TTC-001

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 & Goggles

Generating process:

J. Shipping Information

DOT Hazardous Material Y N

Proper Shipping Name: Waste Flammable Solid

DOT I.D. No. (circle one) UN NA 3175

Hazard Class: Flammable Solid

IO

Anticipated Volume: (Drums) 16 Gal Yds Lbs Bulk Roll

Container Size: 55 gallon Container Type: steel

Per: (One time) Week Month Year Other

01 Y

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. Gary Eagleson — Generator's Signature

2. GARY EAGLESON — Name (Type or Print)

DEQ051844

3. 6-13-90 — Date

4. MGR — 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

19 E 1 L

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

RECYCLE / REUSE ✓

MANIFEST 014337

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.: 1 2 | 0 3 3 6 7 4 9

2. Page 1 of | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Union Switch & Signal ✓
Russell Street
Batesburg, SC 29006 ✓

4. Generator's Phone ( ) [illegible]

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: HWI, INC ✓ | US EPA ID Number: PAD981138497 ✓

C. State Transporter's ID

D. Transporter's Phone: 216-650-0391 ✓

7. Transporter 2 Company Name | 8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone: 803-794-8174 ✓

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 ✓

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.
GENERATOR a.	Waste Diisocyanate UN 2489	016	P	00500	P	R D003 ✓
b.	Hazardous Waste Solid, N.O.S. D001 MA 9169	002	P	01000	P	R N/A ✓
c.	Hazardous Waste Solid, N.O.S. D001 MA 9169	002	P	00600	P	R N/A ✓
d.						R

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE ✓
a. Approval Code: RMOI-UNSS-9000569 ✓
b. Approval Code: RMOI-UNSS-9002303 ✓
c. Approval Code: RMOI-UNSS-9002304 ✓

K. Handling Codes for Wastes Listed Above

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: JAMES L. COOPER ✓ | Signature: [signature] | Month Day Year: 10/22/90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Glenn Corbett ✓ | Signature: [signature] ✓ | Month Day Year: 10/22/90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

DE0051845

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 CRAMER | Signature: [signature] | Month Day Year: 10.22.90

EPA Form [illegible] PINK - RED GREEN [illegible]

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MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

DIRECT FEED ONLY

P.O. BOX 1698 • KENNER, LA 70063
SALES (504) 466-3310

MCD Document # 9000569

MSP CODE: RMGI/UNSS/9000569/DFO

Generator Name: UNION SWITCH + SIGNAL
Facility Address: RUSSELL STREET
City, State, Zip: BATESBURG, S.C. 29006
Technical Contact: Jimmy Caskey
Title: ENVIRONMENTAL MANAGER
Telephone NO.: (803) 532 4432 EXT:
Facility EPA ID #: SCD 003346749

Bill To: RESOURCE MANAGEMENT INC.
Address: P.O. Box 457
City, State, Zip: CHAPIN S.C. 29036
Telephone #: 803 345 0200
Company Contact: DONALD F. DICUS
Container Size: 55 GALLON STEEL DR.
EPA Waste No: D003
Generating Process: LAMINATING OPERATION
Common Name of Waste: CRUDE MDI
Rate of Generation: 2 DRUMS PER QUARTER
Volume in Storage: 2 DRUMS IN 55 GALLON DR.
Is Waste DOT Hazardous: | | YES [X] NO
Proper DOT Shipping Name: POLYMERIC DIPHENYLMETHANE DISOCYANATE
Hazard Class: — ID No.:
Transportation Equipment: VANS
Placarding: NONE REQUIRED

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

POLYMETHYLENE POLYPHENYL ISOCYANATE	100 %
(10% OF THE MATERIAL HAS POLYMERIZED & IS IN LIQUID STATE)	%

METALS (EP Toxicity Test, mg/l) NS = None Suspected

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

INORGANICS (mg/l or ppm)

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

ORGANICS (mg/l or ppm)

Endrin	NS	Organohalide	NS
Methoxychlor	NS	Mercaptans	NS
Toxaphene	NS		
2, 4-D	NS		
2,4,5-T	NS		
Pharmaceuticals	NS		
PCBs	NS		
Dioxin	NS		
TOC	NS		

PHYSICAL DESCRIPTION

Physical State	[X] Liquid		[X] Solid
Phases/Layering		[X] Bilayer	
Viscosity		[X] Medium	
Type of Solids		[X] Inorganic	

Total Solids (wt. %): — Suspended Solids (wt. %):
BTU/lb 19500 % Ash Content 21 % Water (by weight)
Flash Point (°F) 390° Type
Specific Gravity 1.24 @ 25°C
Boiling Point, (°C) 625°F Freezing Point, (°C)
Vapor Pressure (mm Hg @ 24°C) 8.5
pH (Avg) NEUTRAL (Range) to
Total Alkalinity/Acidity (%)
Odor SLIGHTLY AROMATIC
Color DARK BROWN

HAZARDOUS PROPERTIES

[X] Water Reactive		[X] Explosive
		[X] Polymerizable
	[X] Toxic Vapor	

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 2-1-90 GENERATOR'S SIGNATURE:

DE0051846

MSP FORM 001 REV. 11/89

US V. NSP PRODUCED BY NSP 9/93 Releasable REQUEST # 5 Ultra Class Water Master UNITED STATES BOX

MSD054

EB1

Engineered Products Division
Old Sherman Turnpike Danbury, CT 06810 (203) 791-3500

HUMAN HEALTH DATA

Primary Route(s) of Exposure: Inhalation.

EFFECTS OF OVEREXPOSURE

Inhalation: Vapors may be irritating if hot.

Skin Contact: Repeated contact may be irritating.

Eye Contact: Can cause eye irritation. Permanent corneal injury is unlikely.

Ingestion: Ingestion is unlikely. Large quantities could cause irritation of mouth and stomach.

Medical Conditions Agravated by Overexposure: None known

EXPOSURE LIMITS:

OSHA-PEL	Glycerine (Mist):	TWA-10 mg/m^3 Total Dust TWA-5 mg/m^3 Respirable Fraction
ACGIH-TLV	Glycerine (Mist):	TWA-10mg/m^3

HAZARD CODES:

NFPA	Health	2	HMIS	Health	2
	Fire	1		Flammability	0
	Reactivity	0		Reactivity	0

FIRST AID PROCEDURES

Inhalation: Remove to uncontaminated area, administer oxygen if necessary; consult a physician.

Skin Contact: Wash area thoroughly with soap and water. Launder clothing before reuse.

Eye Contact: Flush with water for at least 15 minutes, holding lids open with fingers. Consult a physician.

Ingestion: Drink water to dilute. Consult a physician. Treatment is symptomatic.

ANIMAL TOXICITY DATA:

LD_{50}, Oral:	N.E.
LD_{50}, Dermal:	N.E.
LC_{50}, Inhalation:	N.E.
Fish, LC_{50}:	N.E.

DEQ051847

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Sealed Air Corporation. The data on this sheet relates only to the specific material designated herein. Sealed Air Corporation assumes no legal responsibility for use or reliance upon these data.

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MSD054
1941

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Engineered Products Division
Old Sherman Turnpike Danbury CT 06810 (203) 791-3500

PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Cartridge respirator for organic vapors if conditions require. The presence of adequate breathing oxygen must be assured.

Eye Protection: Goggles and/or safety glasses.

Protective Clothing: Chemical resistant rubber or plastic gloves.

Ventilation: Good general ventilation.

Other: Safety shower and eyewash station should be available. See "Recommendations for the Safe Use and Handling of Instapak® Foam-in-Place Chemicals" bulletin before operating equipment.

REACTIVITY DATA

Stability: Stable.

Polymerization: Will not occur.

Conditions to Avoid: None.

Incompatible Materials: Isocyanates; avoid contact unless mixed at proper ratio.

Hazardous Decomposition Products: By fire or extreme heat, oxides of carbon and nitrogen.

SPILL OR LEAK PROCEDURES

Absorb on loose, absorbent, non-biodegradable material. Eye and skin protection should be worn.

WASTE DISPOSAL METHOD

Incinerate or dispose of in accordance with existing federal, state and local environmental control regulations. Also see "Recommendations for the Safe Use and Handling of Instapak® Foam-in-Place Chemicals" bulletin.

US v. W.R.P. Produced by W.R.P. 9/93 Releasable
Request
Box 5 Waste characterization studies

MSD054
1935

N.E. = NOT ESTABLISHED N.A. = NOT APPLICABLE A.I. = ACTIVE INGREDIENT

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MATERIAL SAFETY DATA SHEET

I-40WB
Page 1 of 4
Issued 2/89

Engineered Products Division
3rd Sherman Road Danbury CT 06810 (203) 791-3500

EMERGENCY TELEPHONE NO: (203) 791-3500 M-F 8:30-5:00 ET
CHEMTREC 1-800-424-9300 (for spill, leak, fire, exposure or accident, 24 hours

PRODUCT IDENTIFICATION

Product Name: INSTAPAK®-40W COMPONENT "B"
Chemical Name: Polyurethane Resin
Trade Name: Polyol
Chemical Family: N.A.
Chemical Formula: N.A.

HAZARDOUS INGREDIENTS

Material	CAS No.	%	OSHA-PEL	ACGIH-TLV
Glycerin (mist)	56-81-5	7	10 mg/m³ (TWA) Total dust 5 mg/m³ (TWA) Respirable fraction	10 mg/m³ (TWA)
Amine Catalyst	Propietary	≈3	N.E.	N.E.

PHYSICAL DATA

Form: Liquid
Color: Clear, Straw
Odor: Slight Amine
Vapor Density (Air=1): >1
Molecular Weight: N.A.
Melting Point: ≈20°F (-7°C)

Boiling Point Range: ≈200°F (104°C)
Vapor Pressure: <1 mm Hg @ 68°F (20°C)
Specific Gravity: 1.05 @ 25°C
Bulk Density: 8.8 lbs/gal
Solubility in Water: Soluble
% Volatile by Volume: Nil

FIRE AND EXPLOSION DATA

Flash Point [Method Used]	Flammable Limits	Lel	Uel
Product as supplied does not have a flash point. [PMCC]		N.E.	N.E.

Extinguishing Media: CO_2, Chemical Foam, Dry Chemical, Water spray.

Special Fire Fighting Procedures: Self-contained breathing apparatus should be worn to protect against oxygen deficient atmosphere and hazardous decomposition products.

DE0051849

N.E. = NOT ESTABLISHED N.A. = NOT APPLICABLE *A.I. = ACTIVE INGREDIENT

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Sealed Air Corporation. The data on this sheet relates only to the specific material designated herein. Sealed Air Corporation assumes no legal responsibility for use or reliance upon these data.

MSD054

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Engineered Products Division
Old Sherman Tnpk Danbury CT06810 (203) 791-3500

SPECIAL PRECAUTIONS AND STORAGE DATA

Storage Temperature: Min. 35°F (2°C) Max 110°F (43°C)

Average Shelf Life: 12 months

Special Sensitivity: None.

Precautions to be Taken in Handling and Storage: Store in cool area.

SHIPPING DATA

D.O.T Shipping Name: N.A.

Technical Shipping Name: Poly(oxyalkylene)polyol Mixture

D.O.T. Hazard Classification: Non-Regulated

UN/NA Number: N.A.

Reportable Quantity: N.A.

D.O.T. Labels Required: None

Freight Class Bulk: Polypropylene Glycol

Freight Class Pkg: Polypropylene Glycol

OTHER REGULATORY INFORMATION

T.S.C.A. Status: All ingredients listed

Threshold Planning Quantity: None

SARA 311/312 Hazard Type: Immediate (acute) Health

SARA 313 Listed Ingredient(s): None

US V. MSP Releasable
PRODUCED BY: MSP 9/93
REQUEST
BOX
MSD054

N.E. = NOT ESTABLISHED N.A. = NOT APPLICABLE A.I. = ACTIVE INGREDIENT

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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

APR 26 1990

9002303

For MSP Use Only

Approval Code RMC-I/UNISS/9002303

A. Generator Information

Generator Name UNION SWITCH + SIGNAL
Site Address RUSSELL STREET
City BATESBURG State SC Zip Code 29006
Generator Contact JIMMY COOPER
Title ENVIRONMENTAL MANAGER
Telephone No. (803) 532-4432
Facility EPA I.D. No. SCD 003346749

B. Customer Information

Company Name RESOURCE MANAGEMENT
Contact DON F. DICUS
Address P.O. BOX 457
CHAPIN, S.C. 29036
Telephone No. (803) 345-0200
For Customer Use

C. Regulatory Information

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

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
WASTE ACRYLIC.		100 %

Common Name of Waste: WASTE ACRYLIC

E. General Characteristics

Color: LIGHT AMBER
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 %): 7 TO 8 %
BTU's per lb (list actual value): 5 TO 7,000
Water (Wt %): ☑ < 1 ☐ 5-10 ☐ 1-5 if > 10 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 SOLID
Viscosity (for bulk liquids only) list actual in centipoise: SOLID cp
Total Suspended Solids (Wt %-for bulk liquids only): ☐ 5-20 ☐ if > 20 list actual SOLID
pH: ☐ 2-6 ☐ 6-10 ☐ 10-12.5 ☐ if < 2 or > 12.5 list actual SOLID NEUT

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 / if > 10 list actual Wt %
☐ Iodine ☑ ☐ ☐
☐ Bromine ☑ ☐ ☐
☐ Chlorine ☑ ☐ ☐
☐ Fluorine ☑ SOLID actual Wt %

Metals: EP Toxicity Test (MG/L)

Arsenic (As)	< 5	Selenium (Se)	< 1
Barium (Ba)	< 100	Silver (Ag)	< 5
Cadmium (Cd)	< 1	Copper (Cu)	< 5
Chromium (Cr)	< 5	Nickel (Ni)	< 5
Lead (Pb)	< 5	Zinc (Zn)	< 5
Mercury (Hg)	< .2		

Organics (ppm)

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

If material contains the following compounds, indicate actual ppm:
PCB 0
Cyanides 0
Sulfides 0
Dioxin 0

HC - HOME SUBCONTRACTED

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H. Notes, Additional Information or Special Handling Instructions

SOLIDIFIED ACRYLIC:

THIS FACILITY MAKES ELECTRIC SWITCHES FOR THE RAILROAD INDUSTRY. LIQUID ACRYLIC IS USED TO INSULATE THE ELECTRIC SWITCHES. PRODUCT FROM THE OVER-APPLICATION OF LIQUID ACRYLIC IS COLLECTED AND DRUMMED FOR DISPOSAL.

Generating 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 — DOT I.D. No. (circle one) UN (NA) NA 9189

Hazard Class: ORM-E — RQ

Anticipated Volume: 4 (Drums) Gal Yds Lbs ☐ Bulk? ☐ Rail?

Container Size: 55 GALLON — Container Type: METAL DRUMS

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. [signature] — Generator's Signature

2. JAMES L. COOPER — Name (Type or Print)

3. 4/19/90 — Date

4. ENV. CONTROL ENGINEER — 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.

DEQ051852

MSP Form 1040 II Rev. 10/89

MSD054
1989

MATERIALS CHARACTERIZATION DATA SHEET

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

APR 26 1990

9002304

For MSP Use Only
Approval Code RMG-I / ILNISS / 9002304

A. Generator Information

Generator Name UNION SWITCH & SIGNAL
Site Address RUSSELL STREET
City BATESBURG State SC Zip Code 29006
Generator Contact JIMMY COOPER
Title ENVIRONMENTAL MANAGER
Telephone No. (803) 532-4432
Facility EPA I.D. No. SCD 003346749

B. Customer Information

Company Name RESOURCE MANAGEMENT
Contact DON F. DICUS
Address P.O. BOX 457
CHAPIN, S.C. 29036
Telephone No. (803) 345-0200
For Customer Use

C. Regulatory Information

[ ] RCRA Regulated [ ] Land Ban [✓] Non-Regulated EPA Waste Code(s) NON-REGULATED

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
EMPTY PAINT CANS (1 GALLON SIZE)	80%	90%
PAPER MIXING CUPS	2%	5%
PLASTIC GLOVES	1%	2%
DEBRI (SHREDDABLE)	1%	3%

Common Name of Waste: PAINT WASTE CANS

E. General Characteristics

Color: MULTI-COLORED EMPTY BRUSHED CANS
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 %): 5 TO 10%
BTU's per lb (list actual value): 1000
Water (Wt %): [✓] <1 [ ] 1-5 [ ] 5-10 [ ] if > 10 list actual ____
Specific Gravity: [ ] <0.8 [ ] 0.8-1.0 [ ] 1.0-1.2 [ ] 1.2-1.4 [ ] 1.4-1.7 [ ] >1.7 list actual SOLID
Viscosity (for bulk liquids only) list actual in centipoise: SOLID cp
Total Suspended Solids (Wt %-for bulk liquids only): [ ] 5-20 [ ] if > 20 list actual SOLID
pH: [ ] 2-6 [ ] 6-10 [ ] 10-12.5 [ ] if < 2 or > 12.5 list actual SOLID - NEUTRAL

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 — <1: 0 actual Wt %; 1-5: [ ]; 5-10: [ ]; if > 10 list actual Wt %: ____

Metals: EP Toxicity Test (MG/L)

Arsenic (As)	<5	Selenium (Se)	<1
Barium (Ba)	<100	Silver (Ag)	<5
Cadmium (Cd)	<1	Copper (Cu)	<5
Chromium (Cr)	<5	Nickel (Ni)	<5
Lead (Pb)	<5	Zinc (Zn)	<5
Mercury (Hg)	<.2		

Organics (ppm)

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

If material contains the following compounds, indicate actual ppm:

PCB	NS
Cyanides	NS
Sulfides	NS
Dioxin	NS

NS = NONE SUSPECTED

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H. Notes, Additional Information or Special Handling Instructions

EMPTY PAINT CANS, PLASTIC GLOVES, MIXING CUPS AND MISCELLANEOUS DEBRI. MSDS's FOR EMPTY PAINT CANS ATTACHED. ALL MATERIAL IS SHREDDABLE.

Generating 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. (circle one) UN/(NA) NA 9189

Hazard Class: ORM-E RQ

Anticipated Volume: 8 (Drums) Gal Yds Lbs ☐ Bulk? ☐ Roll?

Container Size: 55 GALLON Container Type: METAL DRUMS

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. [signature] Generator's Signature

2. JAMES L. COOPER Name (Type or Print)

3. 4/19/90 Date

4. ENV. CONTROL ENGINEER 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.

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P630L

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

MANUFACTURER'S NAME & ADDRESS
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, Ohio 44115

EMERGENCY TELEPHONE NO.
(216) 566-2917

DATE OF PREPARATION
15-Jul-86

INFORMATION TELEPHONE NO.
(216) 566-2302

Section I -- PRODUCT IDENTIFICATION

PRODUCT NAME
POLANE® B Polyurethane Coating, Lead Colors

PRODUCT NUMBERS AND COLORS
F63 B 3 Yorktown Orange
F63 B 81 Orange
F63 Y 97 Sterling Yellow.
--- Also POLANE® B Lead-Containing Custom Colors ---

PRODUCT CLASS
Pigmented component for 2-package Polyurethane Coating

Section II -- HAZARDOUS INGREDIENTS

CAS No.	Ingredient	% by Wt.	OSHA PEL	ACGIH TLV	Units	Note
108-88-3	Toluene.	0-5	100	200	PPM	[illegible]
1330-20-7	Xylene.	<5	100	100	PPM	5,9
64742-95-6	Light Aromatic Naphtha	0-5	100		PPM	3,6
78-93-3	Methyl Ethyl Ketone.	5-15	200	200	PPM	70,8
108-94-1	Cyclohexanone	5-10	25	50	PPM	7,8
108-21-4	Isopropyl Acetate.	0-10	250	250	PPM	47,5
123-86-4	n-Butyl Acetate.	10-15	150	150	PPM	19,8
13463-67-7	Titanium Dioxide.	0-30	15		mg/m3	
1344-37-2	Lead Chromate. (1)	}	0.05	0.05	mg/m3	
7758-97-6	Lead Chromate. (1)	(3)	0.05	0.05	mg/m3	
12656-85-8	Molybdate Orange. (1)	}	0.05		mg/m3	

( ) Ingredient is on [OSHA], NTP[CA] or OSHA[CA] listed carcinogen

Lead (as Pb)	<3	0.05	0.05	mg/m3
Chromium VI (as Cr)	<3	0.05		mg/m3

Section III -- PHYSICAL DATA

EVAPORATION RATE -- Slower than Ether | VAPOR DENSITY -- Heavier than Air

BOILING RANGE (F)	% VOLATILE VOLUME	WT/GAL
174 - 310	65-75	9-11

Section IV -- FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION -- FLASH POINT 35-60 F PMCC LEL 1.0
RED LABEL -- Flammable. Flash below 100 F

EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS
Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Continued on page 2

Section V -- HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE -- See Section II
EFFECTS OF OVEREXPOSURE
ACUTE: Overexposure causes eye, skin and respiratory irritation. May cause nervous system depression accompanied by headache, dizziness, nausea, confusion and staggering gait. Extreme overexposure may result in unconsciousness and possible death. May cause allergic respiratory reaction in susceptible persons and/or skin and respiratory sensitization. This effect may be delayed several hours after exposure.
CHRONIC: Prolonged overexposure to ingredients in Section II may cause diverse effects to the liver, kidneys, blood forming, cardio-vascular, nervous, and reproductive systems (including embryotoxic effects).
Persons sensitive to Isocyanates will experience increased allergic reaction on repeated exposure.
Studies have associated exposure to Chromium VI compounds with an increased risk of respiratory cancer, however, the risk appears to be less significant with insoluble or highly volatile Chromium VI compounds.
Rats exposed to titanium dioxide dust at 250 mg/m3 developed lung cancer. However, such exposure levels are not attainable in the workplace.
Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.
EMERGENCY AND FIRST AID PROCEDURES
IF INHALED: If any breathing problems occur during use, LEAVE THE AREA and get fresh air. If problems remain or occur later, IMMEDIATELY get medical attention.
IF on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
IF in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

Section VI -- REACTIVITY DATA

STABILITY -- Stable
HAZARDOUS DECOMPOSITION PRODUCTS
By Fire: Carbon Dioxide, Carbon Monoxide, Hydrogen Chloride, Oxides of Metals in Section II
HAZARDOUS POLYMERIZATION -- Will Not Occur

Section VII -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Remove all sources of ignition. Ventilate and remove with inert absorbent.
WASTE DISPOSAL METHOD
Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability and corrositability to determine the applicable EPA hazardous waste numbers.
Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with federal, state, and local regulations regarding pollution.

Continued on page 3

Section VIII -- PROTECTION INFORMATION

PRECAUTIONS TO BE TAKEN IN USE
NO PERSON SHOULD USE THIS PRODUCT, OR BE IN THE AREA WHERE IT IS BEING USED, IF THEY HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF THEY EVER HAD A REACTION TO ISOCYANATES.
Before initial use, consult OSHA's Standard for Occupational Exposure to Lead (29 CFR 1910.1025).
Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.
Protect against hazardous dust or fumes which may be generated by sanding, sandblasting, abrading, burning, brazing or welding of the dried film.
VENTILATION
Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.
RESPIRATORY PROTECTION
Where overspray is present, a positive air supplied respirator (TC19C 84953/NIOSH) is recommended. If unavailable, wear a vapor/particulate respirator which respirator manufacturer recommends as effective for isocyanate vapor or mist. Follow directions for respirator use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATORY PROTECTION RECOMMENDED FOR THE PAINTERS.
PROTECTIVE GLOVES
Wear gloves which are recommended by glove supplier for protection against materials in Section II.
EYE PROTECTION
Wear safety spectacles with unperforated sideshields.

Section IX -- PRECAUTIONS

DOT STORAGE CATEGORY -- 13
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.
During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Keep containers closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.
OTHER PRECAUTIONS
This coating contains materials classified as nuisance particulates, for example titanium dioxide, calcium carbonate, etc. (See ACGIH TLV List, Preface and Appendix B), which may be present at hazardous levels only during sanding or abrading of the dried film.
CONTAINS LEAD. Do not apply on toys and other children's articles, furniture, or any interior surface of a dwelling or facility which may be occupied or used by children. Do not apply on any exterior surface of dwelling units, such as window sills, porches, stairs, or railings to which children may be commonly exposed.
This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL CONTAINERS.

Intentional abuse by deliberately concentrating and inhaling the contents can be harmful or fatal.
This Material Safety Data Sheet conforms to the Hazard Communication standard, 29 CFR 1910.1200(g)(6), for similar complex mixtures.
The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

HMIS

HEALTH	3*
FLAMMABILITY	3
REACTIVITY	0

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F63T
POLANE® T

F63TE

MATERIAL SAFETY DATA SHEET
66 FOR COATINGS, RESINS AND RELATED MATERIALS
(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

MANUFACTURER'S NAME — EMERGENCY TELEPHONE NO.
THE SHERWIN-WILLIAMS COMPANY — (216) 566-2917
101 Prospect Avenue N.W.
Cleveland, Ohio 44115
DATE OF PREPARATION — INFORMATION TELEPHONE NO.
15-Jul-86 — (216) 566-2902

Section I -- PRODUCT IDENTIFICATION

PRODUCT NAME — ® = Trade Mark
POLANE® T Polyurethane Coating, Non-Lead Colors
PRODUCT NUMBERS AND COLORS:

F63 A 33	Pratillo Gray	F63 R 93	Red Oxide
F63 B 13	Carbide Black	F63 R 96	Magenta
F63 G 92	Phthalo Green	F63 W 13	Limcot White
F63 H 13	Precision Tan	F63 Y 96	Ochre Mixing Color.
F63 W 13	Fawnbrunswick Tan	F63 Y 97	Red Shade Medium Yellow.
F63 L 13	Mitto Olive	F63 Y 910	Light Yellow.
F63 L 95	Olive.		

--- Also POLANE® T Non-Lead Custom Colors ---

PRODUCT CLASS
Pigmented Component for 2-package Polyurethane Coating

Section II -- HAZARDOUS INGREDIENTS

CAS No.	Component	% by weight	TLV/TWA	STEL/CEIL	Units	Ref.
108-88-3	Toluene.	9-10	100	200	PPM	ACGIH
1330-20-7	Xylene.	4-5	100	150	PPM	ACGIH
78-93-3	Methyl Ethyl Ketone.	5-10	200	300	PPM	ACGIH
108-10-1	Methyl Isobutyl Ketone.	4-5	50	100	PPM	ACGIH
108-94-1	Cyclohexanone	14-15	25	50	PPM	ACGIH
108-21-4	Isopropyl Acetate.	4-5	250	310	PPM	ACGIH
123-86-4	n-Butyl Acetate.	1-2	150	150	PPM	ACGIH
13463-67-7	Titanium Dioxide.	0.30	10		Mg/m3	ACGIH

No ingredient in this product is on IARC, NTP or OSHA listed carcinogen

Section III -- PHYSICAL DATA

EVAPORATION RATE -- Slower than Ether — TAPOR DENSITY -- Heavier than Air
BOILING RANGE (F) — % VOLATILE VOLUME — WT/GAL
370 - 320 — 65-75 — 8.5-11.5

Section IV -- FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION — FLASH POINT 22-60 F PMCC — LEL 1.0%
RED LABEL -- Flammable. Flash below 100 F
EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Foam
UNUSUAL FIRE AND EXPLOSION HAZARDS
Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Continued on page 2

F63TE — POLANE® T Polyurethane Coating, Non-Lead Colors — Page 2

SPECIAL FIRE FIGHTING PROCEDURES
Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section V -- HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE -- See Section II
EFFECTS OF OVEREXPOSURE
ACUTE: Overexposure causes eye, skin and respiratory irritation. May cause narcotic system depression accompanied by headache, dizziness, nausea, confusion and staggering gait. Extreme overexposure may result in unconsciousness and possible death. May cause allergic respiratory reaction in susceptible persons and/or skin and respiratory sensitization. This effect may be delayed several hours after exposure.
CHRONIC: Prolonged overexposure to ingredients in Section II may cause adverse effects to the liver, urinary, blood forming, and cardio-vascular systems.
Persons sensitive to isocyanates will experience increased allergic reaction on repeated exposure.
Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.
Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.
EMERGENCY AND FIRST AID PROCEDURES
IF INHALED: If any breathing problems occur during use, LEAVE THE AREA and get fresh air. If problems remain or occur later, IMMEDIATELY get medical attention.
IF ON SKIN: Wash affected area thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.
IF IN EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

Section VI -- REACTIVITY DATA

STABILITY -- Stable
HAZARDOUS DECOMPOSITION PRODUCTS
By Fire: Carbon Dioxide, Carbon Monoxide, Hydrogen Chloride
HAZARDOUS POLYMERIZATION -- Will Not Occur

Section VII -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Remove all sources of ignition. Ventilate and remove with inert absorbent.
WASTE DISPOSAL METHOD
Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

Section VIII -- PROTECTION INFORMATION

PRECAUTIONS TO BE TAKEN IN USE
NO PERSON SHOULD USE THIS PRODUCT, OR BE IN THE AREA WHERE IT IS BEING USED, IF THEY HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF THEY EVER HAD A REACTION TO ISOCYANATES.
Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.
Protect against dust which may be generated by sanding or abrading the dried film.

Continued on page 3

F63TE — POLANE® T Polyurethane Coating, Non-Lead Colors — Page 3

VENTILATION
Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.
RESPIRATORY PROTECTION
Where overspray is present, a positive air supplied respirator (TRIMC MIDSUPPLY) is recommended. If unavailable, wear a vapor/particulate respirator which respirator manufacturer recommends as effective for isocyanate vapor or mist. Follow directions for respirator use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. NO PERSONS SHOULD BE ALLOWED IN THE AREA UNLESS THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATORY PROTECTION RECOMMENDED FOR THE PAINTERS.
PROTECTIVE GLOVES
Wear gloves which are recommended by glove supplier for protection against materials in Section II.
EYE PROTECTION
Wear safety spectacles with unperforated sideshields.

Section IX -- PRECAUTIONS

DOL STORAGE CATEGORY -- IB
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.
During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.
OTHER PRECAUTIONS
This coating contains materials classified as nuisance particulates. For example titanium dioxide, calcium carbonate, etc. (see ACGIH TLV List, Prefaces and Appendix D), which may be present at hazardous levels only during sanding or abrading of the dried film.
This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional abuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

This Material Safety Data Sheet conforms to the Hazard Communication standard, 29 CFR 1910.1200(g)(6), for similar complex mixtures.
The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

HMIS

HEALTH	3
FLAMMABILITY	3
REACTIVITY	0

F63T Lead-Containing Colors on reverse.

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REQUEST
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MSD054

PAINT

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to form OSHA-20)

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, Ohio 44115

EMERGENCY TELEPHONE NO.
(216) 566-2917

DATE OF PREPARATION
15-Jul-86

INFORMATION TELEPHONE NO.
(216) 566-2902

Section I -- PRODUCT IDENTIFICATION

PRODUCT NAME * -- Trade Mark
POLANE* T Polyurethane Coating, Lead Colors

PRODUCT NUMBERS AND COLORS
F61 C 6 Decibel Orange
F61 C 66 Poly Orange
F61 Y 15 Medium Yellow
--- Also POLANE* T Lead-Containing Custom Colors ---

PRODUCT CLASS
Pigmented component for 2-package Polyurethane Coating

Section II -- HAZARDOUS INGREDIENTS

CAS No.	Component	% by weight	OSHA-PEL	ACGIH-TLV	Units	Ref.
108-88-3	Toluene.	1-5	100	200	PPM	22,8
1330-20-7	Xylene.	<5	100	150	PPM	3,5
78-93-3	Methyl Ethyl Ketone.	0-10	200	200	PPM	20,A
108-10-1	Methyl Isobutyl Ketone.	0-5	50	100	PPM	18,A
108-94-1	Cyclohexanone	10-30	25	50	PPM	3,A
108-21-4	Isopropyl Acetate.	0-5	250	250	PPM	47,)
123-86-4	n-Butyl Acetate.	1-25	150	150	PPM	14,A
13463-67-7	Titanium Dioxide.	0-30	10		Mg/M3	
7758-97-6	Lead Chromate. (1)	<35	0.05	0.05	Mg/M3	
12656-85-8	Molybdate Orange. (1)		0.05		Mg/M3	

(1) Ingredient is an EACC(1), NTP(2) or OSHA(3) listed carcinogen

Lead (as Pb)	<10	0.05	0.05	Mg/M3
Chromium VI (as Cr)	<1	0.05		Mg/M3

Section III -- PHYSICAL DATA

EVAPORATION RATE -- Slower than Ether
VAPOR DENSITY -- Heavier than Air

BOILING RANGE (F)	% VOLATILE VOLUME	WT/GAL
170 - 320	65-75	8.5-11.5

Section IV -- FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION
FLASH POINT 25-60 F PMCC
LEL 1.0
RED LABEL -- Flammable. Flash below 100 F

EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Foam

UNUSUAL FIRE AND EXPLOSION HAZARDS
Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Continued on page 2

PAINT — POLANE* T Polyurethane Coating, Lead Colors — page 2

Section V -- HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE -- See Section II
EFFECTS OF OVEREXPOSURE
ACUTE: Overexposure causes eye, skin and respiratory irritation. May cause narcosis. Gastrointestinal upset may occur. Repeated exposure may result in sensitization to susceptible persons and/or skin and respiratory constriction. This effect may be delayed several hours after exposure.
CHRONIC: Prolonged overexposure to ingredients in Section II may cause adverse effects to the liver, urinary, blood forming, cardio-vascular, nervous, and reproductive systems (including carcinogenic effects).
Persons sensitive to isocyanates will experience increased allergic reaction on repeated exposure.
Studies have associated exposure to Chromium VI compounds with an increased risk of respiratory cancer, however, the risk appears to be less significant with insoluble or highly soluble Chromium VI compounds.
Rats exposed to titanium dioxide dust at 250 mg/m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.
Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

EMERGENCY AND FIRST AID PROCEDURES
IF INHALED: If any breathing problems occur during use, LEAVE THE AREA and get fresh air. If problems remain or oxygen later, IMMEDIATELY get medical attention.
IF ON SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.
IF IN EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

Section VI -- REACTIVITY DATA

STABILITY -- Stable
HAZARDOUS DECOMPOSITION PRODUCTS
By Fire: Carbon Dioxide, Carbon Monoxide, Hydrogen Chloride, Oxides of Metals in Section II
HAZARDOUS POLYMERIZATION -- Will Not Occur

Section VII -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Remove all sources of ignition. Ventilate and remove with inert absorbent.
WASTE DISPOSAL METHOD
Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability and corrosivity to determine the applicable EPA hazardous waste numbers.
Incinerate in approved facility. Do not incinerate closed containers. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

Continued on page 3

PAINT — POLANE* T Polyurethane Coating, Lead Colors — page 3

Section VIII -- PROTECTION INFORMATION

PRECAUTIONS TO BE TAKEN IN USE
NO PERSON SHOULD USE THIS PRODUCT, OR BE IN THE AREA WHERE IT IS BEING USED, IF THEY HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS OR IF THEY EVER HAD A REACTION TO ISOCYANATES.
Before initial use, consult OSHA's Standard for Occupational Exposure to Lead (29 CFR 1910.1025).
Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.
Protect against hazardous dust or fumes which may be generated by sanding, wirebrushing, shredding, burning, blasting or welding of the dried film.
VENTILATION
Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.
RESPIRATORY PROTECTION
Where overspray is present, a positive air supplied respirator (TYPE B)(SR)(SW)(SA) is recommended. If unavailable, wear a supplied-particulate respirator which respirator manufacturer recommends as effective for isocyanate vapor or mist. Follow directions for respirator use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATORY PROTECTION RECOMMENDED FOR THE PAINTERS.
PROTECTIVE GLOVES
Wear gloves which are recommended by glove supplier for protection against materials in Section II.
EYE PROTECTION
Wear safety spectacles with unperforated sideshields.

Section IX -- PRECAUTIONS

DOT STORAGE CATEGORY -- 3B
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.
During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.
Consult NFPA Code. Use approved bonding and Grounding procedures.
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.
OTHER PRECAUTIONS
This coating contains materials classified as nuisance particulates, for example titanium dioxide, calcium carbonate, etc. (See ACGIH TLV List, Preface and Appendix D), which may be present at hazardous levels only during sanding or shredding of the dried film.
CONTAINS LEAD. Do not apply on toys and other children's articles, furniture, or any interior surface of a dwelling or facility which may be occupied or used by children. Do not apply on any exterior surface of dwelling units, such as window sills, porches, stairs, or railings to which children may be commonly exposed.
This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL CONTAINERS.

Intentional abuse by deliberately concentrating and inhaling the contents can be harmful or fatal.
This Material Safety Data Sheet conforms to the Hazard Communication standard, 29 CFR 1910.1200(g)(2)(i), for similar complex mixtures.
The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

HMIS

HEALTH	3*
FLAMMABILITY	3
REACTIVITY	0

DEQ051857

MSD054
1994

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USEPA SF
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Box 5 Folder 1
Wasatch Chemical Co. Material Safety Data Sheet
MSD054

F63E

MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, Ohio 44115

EMERGENCY TELEPHONE NO.
(216) 566-2917

DATE OF PREPARATION
15-Jul-86

INFORMATION TELEPHONE NO.
(216) 566-2901

Section I -- PRODUCT IDENTIFICATION

PRODUCT NAME — Trade Name
POLANE® B Polyurethane Coating, Non-Lead Colors

PRODUCT NUMBERS AND COLORS

F63 A 13	20 Gray	F63 L 03	Floating Blue.
F63 A 31	Ada 595 Gray	F63 R 09	Red Oxide Tint.
F63 B 13	Stellite Black	F63 T 17	Maroon
F63 B 06	Orange	F63 R 17	Thermal Red
F63 C 559	P.C. Green	F63 S 1	Ultrasonic Chrome
F63 B 18	Vista Green	F63 W 13	Strobe White
F63 R 19	Computer Beige	F63 Y 06	Ochre Floating Base.
F63 B 11	Medallion Ivory	F63 Y 08	Organic Yellow Medium
F63 L 14	Spectra Blue	F63 W 16	Clear
F63 L 16	Circuit Blue		

--- Also POLANE® B Non-Lead Custom Colors ---

PRODUCT CLASS
Pigmented component for 2-package Polyurethane Coating

Section II -- HAZARDOUS INGREDIENTS

CAS No.	Component	Wt %	TLV (OSHA)	TLV (ACGIH)	STEL	Vapor Pressure
64742-47-8	Mineral Spirits.	0-5	100	300	PPM	2.0
108-88-3	Toluene.	5-15	100	150	PPM	22.0
1330-20-7	Xylene.	<5	100	150	PPM	5.0
64742-95-6	Light Aromatic Naphtha	0-5	N/E		PPM	1.0
78-93-3	Methyl Ethyl Ketone.	5-15	200	300	PPM	70.0
108-94-1	Cyclohexanone	10-20	25	50	PPM	2.0
108-21-4	Isopropyl Acetate.	0-15	250	250	PPM	67.5
123-86-4	n-Butyl Acetate.	10-15	150	150	PPM	11.0
13463-67-7	Titanium Dioxide.	15-20	15		Mg/M3	

No Ingredient in this product is on IARC, NTP or OSHA listed carcinogen

Section III -- PHYSICAL DATA

EVAPORATION RATE -- Slower than Ether — WATER SOLUBILITY -- Heavier than Air

BOILING RANGE (F)	% VOLATILE BY WEIGHT	VOC/GAL
170 - 395	55-35	0-11

Section IV -- FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION — FLASH POINT 15-65 F PMCC — LEL 0.9

FED LABEL -- Flammable, Flash below 102 F

EXTINGUISHING MEDIA
Carbon Dioxide, Dry Chemical, Foam

Continued on page 2

UNUSUAL FIRE AND EXPLOSION HAZARDS
Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES
Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section V -- HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE -- See Section II

EFFECTS OF OVEREXPOSURE

POINTS: Overexposure causes eye, skin and respiratory irritation. May cause nervous system depression accompanied by headache, dizziness, nausea, confusion and staggering gait. Extreme overexposure may result in unconsciousness and possible death. May cause allergic respiratory reaction in susceptible persons and/or skin and respiratory sensitization. This effect may be delayed several hours after exposure.

CHRONIC: Prolonged overexposure to ingredients in Section II may cause adverse effects to the liver, kidneys, blood forming, and cardio-vascular systems.
Persons sensitive to isocyanates will experience increased allergic reaction on repeated exposure.
Rats exposed to titanium dioxide dust at 250 mg./m3 developed lung cancer, however, such exposure levels are not attainable in the workplace.
Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

EMERGENCY AND FIRST AID PROCEDURES

IF INHALED: If any breathing problems occur during use, LEAVE THE AREA and get fresh air. If problems remain or occur later, IMMEDIATELY get medical attention.

IF ON SKIN: Wash affected areas thoroughly with soap and water.
Remove contaminated clothing and launder before re-use.

IF IN EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

Section VI -- REACTIVITY DATA

STABILITY -- Stable

INCOMPATIBILITY
Metallic coppers Aluminum. Contamination with Water, Acids, or Alkalis can cause evolution of Hydrogen, which may result in dangerously increased pressures in closed containers.

HAZARDOUS DECOMPOSITION PRODUCTS
By Fires Carbon Dioxide, Carbon Monoxide, Hydrogen Chloride

HAZARDOUS POLYMERIZATION -- Will Not Occur

Section VII -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
Remove all sources of ignition. Ventilate and remove with inert absorbent.

WASTE DISPOSAL METHOD
Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.
Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

Continued on page 3

Section VIII -- PROTECTIVE INFORMATION

PRECAUTIONS TO BE TAKEN IN USE
No person should use this product, nor be in the area where it is being used, if they have chronic (long-term) lung or breathing problems or if they ever had a reaction to isocyanates.
Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.
Protect against dust which may be generated by sanding or abrading the dried film.

VENTILATION
Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION
Where overspray is present, a positive air supplied respirator (TYPE HIOSA/OSHA) is recommended. If unavailable, wear a vapor/particulate respirator which respirator manufacturer recommends as effective for isocyanate vapor or mist. Follow directions for respirator use. Wear the respirator for the whole time of spraying and until all vapors and mists are gone. NO PERSONS SHOULD BE ALLOWED IN THE AREA WHERE THIS PRODUCT IS BEING USED UNLESS EQUIPPED WITH THE SAME RESPIRATORY PROTECTION RECOMMENDED FOR THE PAINTERS.

PROTECTIVE GLOVES
Wear gloves which are recommended by glove supplier for protection against materials in Section II.

EYE PROTECTION
Wear safety spectacles with unperforated sideshields.

Section IX -- PRECAUTIONS

DOL STORAGE CATEGORY -- IB

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.
During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

OTHER PRECAUTIONS
This coating contains materials classified as nuisance particulates, for example titanium dioxide, calcium carbonate, etc. (see ACGIH TLV List, Preface and Appendix D), which may be present at hazardous levels only during sanding or abrading of the dried film.
This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Intentional abuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

This Material Safety Data Sheet conforms to the Hazard Communication standard, 29 CFR 1910.1200(g)(6), for similar complex mixtures.
The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

HMIS

HEALTH	3
FLAMMABILITY	3
REACTIVITY	0

·F63B Lead-Containing Colors on reverse.

DEQ051858

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Resource Management Incorporated

Post Office Box 457 • Chapin, South Carolina 29036 • 803-345-0200

April 23, 1990

Marine Shale Processors
110 James Drive, West
St. Rose, LA 70087
Att. Mr. Walt Rushin

Regard: Union Switch & Signal, Batesburg, SC

Dear Walt:

Enclosed please find the completed and signed MSP Data Sheets. Please note the material safety data sheets for the empty paint cans. Union Switch & Signal uses 4 different paint pigments. You will find MSDS's for all four pigments, each sheet representing one pigment.

If we can answer any further questions, please don't hesitate to call.

Sincerely,

Donald F. Dicus
Resource Management Inc.

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REQUEST
BOX
MSD054
1990

DEQ051859

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

RECYCLE / REUSE

MANIFEST 010357

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. CAD008156160 — 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
CAL-MOOR FURNITURE
9909 W JEFFERSON BLVD CULVER CITY CA 90230

4. Generator's Phone (213) 870-4821

5. Transporter 1 Company Name: Odyssey Trans
6. US EPA ID Number: CAD 10 B A 12 1 10 10 1 1 A

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: LAD 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	14. Unit Wt/Vol.	Waste No.
a. WASTE FLAMMABLE SOLID N.O.S. FLAMMABLE SOLID UN1325	010	DM	01110	G	D001 R F003 U
b.					R
c.					R
d.					R

13. Additional Descriptions for Materials Listed Above — RECYCLE/REUSE — K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Gloves & Goggles

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.

GENERATOR — Printed/Typed Name: TONY RAY — Signature: Tony Ray — Month Day Year: 06 27 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: John D. Carter — Signature: John D. Carter — Month Day Year: 10 6 20 90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space
DEQ051860

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 — Month Day Year: 10 6 90

EPA Form 8700-22 (Rev. 3-89) Previous editions are obsolete.

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US v. NSP PRODUCED BY NSP 9/93 Releasable

REQUEST # 1

BOX # 5 Uniform Hazardous Waste Manifest

MSD054

1947 E

MATERIALS CHARACTERIZATION DATA SHEET

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

APR 16 1990

9002087

For MSP Use Only
Approval Code E REC CMD 9002087

A. General Information

Company Name: CAL-MODE FURNITURE
Address: 9909 W Jefferson Blvd
City: Culver City State: CA Zip Code: 90230
Generator Contact: Greg Rifkin
Title: V.P.
Telephone No. (213) 870-4821
Facility EPA I.D. No.: CA0009564600

B. Customer Information

Company Name: EnviroServ
Contact: Fred Pell
Address: P.O. Box 2376
Sepulveda, CA 91393
Telephone No. (818) 891-1495
For Customer Use:

C. Regulatory Information

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

D. Chemical Composition

MAJOR CHEMICAL NAMES – Sample must not exceed 20%. Total in maximum column must be greater than or equal to 100%	MIN	MAX
Paint & Paint Pigments	75%	
Methyl Ethyl Ketone	25%	

Common name of waste:

E. General Characteristics

Color: VARIED
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 %): 2
BTU's per lb (list actual value): 12000
Water (Wt %): ☒ <1 ☐ 5-10 ☐ 1-5 ☐ if > 10 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:
Viscosity (for bulk liquids only) list actual in centipoise: cp
Total Suspended Solids (Wt % – for bulk liquids only): ☐ 5-20 ☐ if > 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 ☐ 140°-200°F ☐ ____ °F actual
Sulfur (Wt %): ☐ < 5 ☐ if > 5 list actual value:

Halogens (Wt %): <1 ☒ ☐ Iodine ☐ Bromine ☐ Chlorine ☐ Fluorine

	1-5	5-10
Iodine	☐	☐
Bromine	☐	☐
Chlorine	☐	☐

If >10 list actual Wt %:

Metals EP Toxicity Test (MG/L) n/s none suspected

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

Organics (ppm)

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

DE0051841

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REQUEST # 5
Releasable
DOJ-LAND-1993-00[illegible]
Waste Haulers

MSD054

1990

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 supp information, data and comments

Gloves, goggles & Respirator

Generating process:

J. Shipping Information

DOT Hazardous Material (Y) N (circle one)

Proper Shipping Name: WASTE FLAMMABLE SOLID DOT I.D. No. (UN) NA 1325

Hazard Class: FLAMMABLE SOLID IQ

Anticipated Volume: (Drums) 5 Gal Yds Lbs Bulk Roll

Container Size: 55 gallon Container Type: Steel

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. [signature] Generator's Signature

2. Greg Rifkin Name (Type or Print)

3. 4-12-90 Date

4. VP 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.

DEQ051862

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US V. M&P Releasable
PRODUCED BY M&P 9/93
REQUEST
BOX
Wastewater treatment waste treater sludges

MSD054

1991

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

RECYCLE / REUSE

MANIFEST Nº 016180

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.: CIAID1918111513161613111010101b2 — 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
VOLPAR
7701 WOODLEY AVE. VAN NUYS CA 91406
4. Generator's Phone (818) 994-5023

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID: 101441
D. Transporter's Phone: 213-426-3901
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone: (504) 631-3161

5. Transporter 1 Company Name: ODYSSEY — 6. US EPA ID Number: CIAID1018171211010111 9
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: LAD981057016

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	State Waste No.
a. WASTE FLAMABLE SOLID N.O.S. FLAMMABLE SOLID UN1325	002	DM	00110	G	D001 R
b.					R
c.					R
d.					R

J. Additional Descriptions for Materials Listed Above: RECYCLE / REUSE — EREC/VOLP/9002703
K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Respirators, Gloves, & Goggles
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.

GENERATOR — Printed/Typed Name: BILL MAER — Signature — Month Day Year: 12/12/12

TRANSPORTER
17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: John D Carter — Signature — Month Day Year: 10/23/1990
18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name — Signature — Month Day Year

FACILITY
19. Discrepancy Indication Space: DEQ051863
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 — Month Day Year

EPA Form 8700-22 (Rev. 9-88) WHITE - DEQ GREEN - Generator YELLOW - TSDDF BLUE - Transporter 2 PINK - Transporter 1 GOLD - Generator

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

US v. MSD
PRODUCED BY MSD 9/93 Releasable
REQUEST Hazardous Waste Manifest

MSD054

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MSP MATERIALS CHARACTERIZATION DATA SHEET

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

MAY 17 1990

9002703

For MSP Use Only
Approval Code EREC/VDLP/9002703

A. General Information

Company Name: Volpar
Address: 7701 Woodley Ave
City: Van Nuys State: CA Zip Code: 91406
Generator Contact: Cliff Cilsdorf
Title: VP
Telephone No. (818): 994-5033
Facility EPA I.D. No.: CAD981537621

B. Customer Information

Company Name: EnviroServ
Contact: Fred Pell
Address: PO Box 2376
Sepulveda CA 91393
Telephone No. (818): 891-1495
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%	MIN	MAX
Machine Oil Sludge		100%

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 %): 5
Water (Wt %): ■ <1 □ 5-10 □ 1-5 □ > 10 — 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
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 □ > 12.5 — list actual
BTU's per lb (list actual value): 12000 — list actual

Flash Point (closed cup):
□ < 100°F □ > 200°F
■ 100°-140°F ● □ 130 °F actual
□ 140°-200°F

Sulfur (Wt %):
□ < 5
If > 5 list actual value

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)	n/s	Selenium (Se)	n/s
Barium (Ba)	n/s	Silver (Ag)	n/s
Cadmium (Cd)	n/s	Copper (Cu)	n/s
Chromium (Cr)	n/s	Nickel (Ni)	n/s
Lead (Pb)	n/s	Zinc (Zn)	n/s
Mercury (Hg)	n/s		

n/s none suspected

Organics (ppm):

Endrin	n/s
Lindane	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

DEM0518864

MSD054

191

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US V. NSP Releasable
PRODUCED BY NSP 9/93
REQUEST

Box 5 Waste Flammable Solids

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 suppl information, data and comments

Gloves & Goggles

Generating process:

J. Shipping Information

DOT Hazardous Material (Y) N

Proper Shipping Name: WASTE FLAMMABLE SOLID

DOT I.D. No. (circle one) (UN) NA 1325

Hazard Class: FLAMMABLE SOLID EQ

Anticipated Volume: (Drums) 15 Gal Yds Lbs ☐ Bulk ☐ Roll

Container Size: 55 gallon Container Type: Steel

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. Cliff Cilsdorf — Generator's Signature

2. CLIFF CILSDORF — Name (Type or Print)

3. May 15, 1990 — Date

4. VP — Title

DEQ051865

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

1952

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

RECYCLE / REUSE

MANIFEST Nº: 015069

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. LAD079464095 Manifest Document No. 015069

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: LAD079464095

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: LAD981057706

A. State Manifest Document Number:
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: 318-783-2624
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.	I. Waste No.
a. Waste Flammable Liquid, N.O.S. Flammable Liquid UN1993 RQ,(D001,F001,F002,F003,F005,K085,) (HEXANE,MEK)	001	FF	5500	G	D001,F001 F002 R F003,F005
b.					R
c.					R
d.					R

J. Additional Descriptions for Materials Listed Above
I. Additional Waste Code: K085
A. MSP-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 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.

GENERATOR — Printed/Typed Name: Gene Johnson — Signature: [signature] — Month Day Year: 10/6/91

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Robbi Sonnier — Signature: [signature] — Month Day Year: 10/6/91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Day Year:

FACILITY

19. Discrepancy Indication Space
DEQ051866

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Curtis Fowler — Signature: [signature] — Month Day Year: 10/6/91

WHITE - Transporter 2 PINK - Transporter 1 GOLD - Generator

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USV, MSP PRODUCED BY MSP 9/93 Releasable

REQUEST [illegible] Waste Manifest

MSD054

1953

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

RECYCLE / REUSE

MANIFEST Nº 015074

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

Please print or type. (Form designed for use on elite (12-pitch) 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. 015074

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 015074-LA

B. State Generator's ID

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

C. State Transporter's ID

D. Transporter's Phone 318-783-2624

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 L A D 9 8 1 0 5 7 7 0 6

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.	I. Waste No.
a. Waste Flammable Liquid, N.O.S. Flammable Liquid UN1993 RQ,(D001,F001,F002,F003,F005,K085,) (HEXANE,MEK)	001	T T	5400	G	D001,F001 F002 R F003,F005
b.					R
c.					R
d.					R

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
1. Additional Waste Code: K085
A. MSP-HSCO-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) 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.
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GENERATOR — Printed/Typed Name: Gene Leblanc — Signature: [signature] — Month Day Year: 10/6/91

17. Transporter 1 Acknowledgement of Receipt of Materials

TRANSPORTER — Printed/Typed Name: GREG ISTRE — Signature: [signature] — Month Day Year: 10/6/91

18. Transporter 2 Acknowledgement of Receipt of Materials

TRANSPORTER — Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space
DEQ051867

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

FACILITY — Printed/Typed Name: Catherine McCutcheon — Signature: [signature] — Month Day Year: 10/9/91

EPA Form 8700-22 (Rev. 9-88) WHITE – DEQ GREEN – Generator YELLOW – TSDRF BLUE – Transporter 2 PINK – Transporter 1 GOLD – Generator

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PRODUCED BY: HSP, 9/93 — Releasable — US v. HSP

MSD054

1954

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

RECYCLE / REUSE

MANIFEST Nº 015073

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. LAD078466855 — 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 015073

B. State Generator's ID

5. Transporter 1 Company Name: GSX RECOVERY SYSTEMS INC.

6. US EPA ID Number: LAD078466855

C. State Transporter's ID

D. Transporter's Phone 318-783-2624

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: LAD981057706

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 Flammable Liquid, N.O.S. Flammable Liquid UN1993 RQ,(D001,F001,F002,F003,F005,K085,) (HEXANE,MEK)	001	TT	5500	G	D001,F001 F002 R F003,F005
b.					R
c.					R
d.					R

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
I. Additional Waste Code: K085
A. MSP-HSCO-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 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.
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GENERATOR

Printed/Typed Name	Signature	Month Day Year
Gene Labiance	Gene Labiance	01 12 14 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
GREG JETTE	Greg Jette	01 12 14 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

FACILITY

19. Discrepancy Indication Space
DEQ051868

20. 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
Cindie Fowler	Cindie Fowler	01 14 91

EPA Form 8700-22 (Rev. 9-88) WHITE – DEQ. GREEN – Generator. YELLOW – TSDRF. BLUE – Transporter 2. PINK – Transporter 1. GOLD – Generator

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MSD054

1959

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

RECYCLE / REUSE

MANIFEST Nº 016206

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

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. / Manifest Document No.: CAD098131126 / 11513010010

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: Rain Bird Sprinklers, 633 W Foothill Blvd, Glendora CA 91740

4. Generator's Phone: (818) 914-3346

5. Transporter 1 Company Name: Odyssey Transport

6. US EPA ID Number: CAD010813121

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: LAD981057706

A. State Manifest Document Number:

B. State Generator's ID:

C. State Transporter's ID: 101447

D. Transporter's Phone: (213) 426-3901

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.	I. Waste No.
a. Waste Flammable Solid, n.o.s. Flammable Solid UN1325	0103	DM	010165	G	D001 R, F003
b.					R
c.					R
d.					R

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE: ERTC/RNBO/9002620

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information: Gloves & Goggles

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.

GENERATOR — Printed/Typed Name: COLEMAN F. BUTLER — Signature: [signature] — Month Day Year: 11 17 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: John D. Carter — Signature: John D. Carter — Month Day Year: 10 27 90

18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name: — Signature: — Month Day Year:

FACILITY

19. Discrepancy Indication Space: DEQ051869

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name: [illegible] — Signature: [signature] — Month Day Year: 11 13 90

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US v. MSP — Releasable — PRODUCED BY MSP 9/93 — REQUEST # [illegible]

MSD054

1956

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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 11 1990 For MSP Use Only

Approval Code EREC/RNBD/9002620

9002620

A. General Information

Company Name: Rain Bird Sprinklers
Address: 633 W Foothill Blvd
City: Glendora State: CA Zip Code: 91740
Generator Contact: Jeanne Bonis
Title: Purchasing Agent
Telephone No. (818): 914-7346
Facility EPA I.D. No.: CAD981624453

B. Customer Information

Company Name: Envirosery
Contact: Fred Pell
Address: P.O. Box 2334
Sepulveda CA 91393
Telephone No. (818): 891-1495
For Customer Use:

C. Regulatory Information

■ RCRA Regulated ☐ Land Ban ☐ Non-Regulated EPA Waste Code(s): D001 / F003

D. Chemical Composition

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

	MIN	MAX
Waste Paint Sludge	90%	
Acetone	10%	

Common name of waste:

E. General Characteristics

Color: Varied
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 %): 2
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
Viscosity (for bulk liquids only) list actual in centipoise: ____ cp
Total Suspended Solids (Wt % for bulk liquids only): ☐ 5-20 ☐ if > 20 list actual ____
pH: ☐ 2-6 ■ 6-10 ☐ 10-12.5 ☐ if < 2 or > 12.5 list actual ____
BTU's per lb (list actual value): 15000 list actual ____

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

Halogens (Wt %): <1 / 1-5 / 5-10
☐ Iodine ☐ ☐ ☐
☐ Bromine ☐ ☐ ☐
☐ Chlorine ☐ ☐ ☐
☐ Fluorine ____ actual Wt %
If >10 list actual Wt %:

Metals: EP Toxicity Test (MG/L) n/s none suspected

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

Organics (ppm):

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

If material contains the following compounds, indicate actual ppm:
PCB n/s
Cyanides n/s
Sulfides n/s
Dioxin n/s

DEB051870

MSD054

191

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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 suppo information, data and comments

Respirator gloves & bagales

Generating process:

J. Shipping Information

DOT Hazardous Material (Y) N

Proper Shipping Name: Waste Flammable Solid

DOT I.D. No. (circle one) (UN) NA 1325

Hazard Class: Flammable Solid

RQ

Anticipated Volume: (Drums) 1 Gal Yds Lbs ☐ Bulk ☐ Roll

Container Size: 55 gallon Container Type: Steel

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. [signature] Generator Signature

2. Jeanne Roney Name (Type or Print)

3. 5/10/90 Date

4. P/A Title

DEQ051871

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.

US V. HSP Releasable PRODUCED BY HSP 9/93 REQUEST

Box 5 Waste characterization waste chemicals

MSD054

198

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

RECYCLE / REUSE

MANIFEST Nº 015943

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. T|X|D|0|4|1|0|8|5|1|0|1 Manifest Document No. 200078

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Multi Plate Circuits, Inc.
2362 Lu Field Road
BILLING: CHEMWAY TRANSPORT
P.O. BOX 87 KAUFMAN, TX 75142 Dallas, Texas 75229
4. Generator's Phone ( ) Attn: Jack Greenwood

A. State Manifest Document Number

B. State Generator's ID 32210

5. Transporter 1 Company Name — 6. US EPA ID Number
Chemway Transport Inc — T|X|D|9|8|0|8|7|8|5|0|6

C. State Transporter's ID 40605

D. Transporter's Phone (214)932-7482

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 — 10. US EPA ID Number
MARINE SHALE PROCESSORS, INC.
HIGHWAY 90 EAST
MORGAN CITY, LOUISIANA 70380 L|A|D|9|8|1|0|5|7|7|0|6

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.	I. Waste No.
a. NON REGULATED MATERIAL (POLYMER)	1	DM	59	G	R NRM
b. RQ HAZARDOUS WASTE SOLID, N.O.S., CORR-E NA9189, EPA. D008 (LEAD)	2	CF	12	Y	R D008
c.					R
d.					R

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
CHWI/MULT/9001375/55 GAL BLUE POLYMER & SOLUTION
CHWI/MULT/9001376/CY PRINTED CIRCUIT BOARD CHIPS

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
IN CASE OF SPILL, DIKE AND CONTAIN. NOTIFY GENERATOR.

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: MARK WOODS — Signature — Month Day Year: 06 21 92

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Todd Sparks — Signature — Month Day Year: 06 21 92

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space
DEQ051872

20. 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

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MSD054

1959 F

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MSP MATERIALS CHARACTERIZATION DATA SHEET

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

APR 06 1990

For MSP Use Only CHWY/MULT/9001375

APR 06 1990

Approval Code 9001375

A. Generator Information

Generator Name: Multi Plate Circuits, Inc.
Site Address: 2362 Lu Field Road
City: Dallas State: TX Zip Code: 75229
Generator Contact: Randy Smith
Title: Waste Treatment Specialist
Telephone No.: (214) 243-1557
Facility EPA I.D. No.: TXD041085101

B. Customer Information

Company Name: Chemaway Transport, Inc.
Contact: Marianne Boyd
Address: P.O. Box 877
Kaufman, Texas 75142
Telephone No.: (214) 932-7482
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
Butyl Cellosolve	1.9	
Lead Oxide	.04	
Iron Oxide	.08	
Polymer	16.5	
Water	82.0	

Common Name of Waste: Blue Polymer & Solution

E. General Characteristics

Color: Blue

Odor: ☒ None ☐ Mild ☐ Strong

☐ Liquid ☐ Sludge ☒ Solid ☐ Powder

Phases: X 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 %): 20.0
BTU's per lb (list actual value): ≥2000
Water (Wt %): ☐ <1 ☐ 5-10 ☐ 1-5 ☐ if > 10 — list actual 82.0
Specific Gravity: ☐ <0.8 ☐ 1.2-1.4 ☒ 0.8-1.0 ☐ 1.4-1.7 ☐ 1.0-1.2 ☐ > 1.7 — list actual 984 g/cc
Viscosity (for bulk liquids only) list actual in centipoise: 0 cp
Total Suspended Solids (Wt % for bulk liquids only): ☐ 5-20 ☐ if > 20 — list actual 0
pH: ☐ 2-6 ☒ 6-10 ☐ 10-12.5 ☐ if < 2 or > 12.5 — list actual 8.3

Flash Point (closed cup): ☐ < 100°F ☒ > 200°F : ≥ 212 °F actual ☐ 100-140°F ☐ 140-200°F
Sulfur (Wt %): ☒ < 5 ☐ if > 5 list actual value

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	Selenium (Se)	0
Barium (Ba)	0	Silver (Ag)	0
Cadmium (Cd)	0	Copper (Cu)	0
Chromium (Cr)	0	Nickel (Ni)	0
Lead (Pb)	2.55	Zinc (Zn)	0
Mercury (Hg)	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

1980

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PRODUCED BY MSP 9/93
Releasable
REQUEST #
DOJ-2005-07676-A-0000001

H. Notes, Additional Information or Special Handling Instructions

See Laboratory Analysis #88-13574

Generating Process: Metal Imaging

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, Goggles, Tyvek Suits, Hard Hats, Respirators, Boots

J. Shipping Information

DOT Hazardous Material Y (N)

Proper Shipping Name: Non Regulated

DOT I.D. No. / (circle one) UN/NA

Hazard Class

RQ

Anticipated Volume: 1 (Drums) Gal Yds Lbs ☐ Bulk ☐ Roll

Container Size: 55 Gallon Container Type: Open Head 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. [signature] 04/04/98
Generator's Signature

2. RANDALL SMITH
Name (Type or Print)

3. 03-13-98
Date

4. WASTE TRAINING SPECIALIST
Title

DEQ051874

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. 10/89

MSD054

1961

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NDRC LABORATORIES, INC.

Dallas — 3553 Miller Park Drive, Garland, Texas 75042 • (214) 276-2986 • FAX (214) 494-2454
Houston — 6284 Brookhill Drive, Houston, Texas 77087 • (713) 644-9437

DATE RECEIVED: 12-1-88

REPORT NUMBER: 88-13574
REPORT DATE: 12-9-88

SAMPLE SUBMITTED BY: Chemaway Transport, Inc.
ADDRESS: P.O. Box 877
Kaufman, TX 75142
ATTENTION: Mr. R.L. LaQuey

SAMPLE GENERATOR: Multiplate Co. Inc.
SAMPLE DESCRIPTION: Liquid
IDENTIFYING MARKS: Blue Polymer & Solution

ANALYSIS REPORT

TEST REQUESTED	DETECTION LIMIT	RESULTS
Flash Point	N/A	>212°F
Specific Gravity	0.001, g/cc	0.984 g/cc
Cyanide	1.0 mg/l	< 1.0 mg/l
Sulfide	1.0 mg/l	< 1.0 mg/l
Total Organic Halides	100 mg/l	<100 mg/l
Normality	0.1 N	0.1 N
Phenols	< 0.1 mg/l	< 0.1 mg/l
Polychlorinated Biphenyls (PCBs)	1.0 mg/l	< 1.0 mg/l
pH		8.3
Chemical Composition (Qualitative-Accuracy Precision 5%)		
Solvents:		1.9 %
Butyl Cellosolve	1.9 %	
Lead (as Lead Oxide)		0.04 %
Iron (as Iron Oxide)		0.08 %
Polymer		16.5 %
Water		81.4 %

Should you have any questions concerning this lab report, please contact the following person.

NDRC Laboratories, Inc. David R. Godwin

David R. Godwin, Ph.D.
Director of Technical Services

DEQ051875

MSD054

1962

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NDRC LABORATORIES, INC.

Dallas — 3553 Miller Park Drive, Garland, Texas 75042 • (214) 276-2986 • FAX (214) 494-2454
Houston — 6284 Brookhill Drive, Houston, Texas 77087 • (713) 644-9437

DATE RECEIVED: 12-1-88

REPORT NUMBER: 88-13574
REPORT DATE: 12-9-88

SAMPLE SUBMITTED BY: Chemaway Transport, Inc.
ADDRESS: P.O. Box 877
Kaufman, TX 75142
ATTENTION: Mr. R.L. LaQuey

SAMPLE GENERATOR: Multiplate Co. Inc.
SAMPLE DESCRIPTION: Liquid
IDENTIFYING MARKS: Blue Polymer & Solution

EP TOXICITY METALS

Metal	EPA Method*	Detection Limit (mg/l)	Amount Detection (mg/l)
Arsenic	7061	0.01	<0.01
Barium	7080	0.1	<0.1
Cadmium	7130	0.01	<0.01
Chromium	7190	0.05	<0.05
Lead	7420	0.02	2.55
Mercury	7471	0.001	<0.001
Selenium	7740	0.01	<0.01
Silver	7760	0.01	<0.01
Nickel	7520	0.05	<0.05
Thallium	7840	0.1	<0.1

* Samples were extracted for analysis following EPA Method 1310 and the individual metals were analyzed by the referenced methods from Test Methods for Evaluating Solid Wastes: Physical/ Chemical Methods (EPA SW-846).

NDRC Laboratories, Inc. David R. Godwin, by
David R. Godwin, Ph.D.
Director of Technical Services

DEQ051876

US V. MSP Releasable PRODUCED BY MSP 9/93 REQUEST
Box 5 Miscellaneous Waste Materials
MSD054
1963

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MSP MATERIALS CHARACTERIZATION DATA SHEET

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

APR 06 1990

For MSP Use Only CHWY | MULT | 9001376

Approval Code 9001376

A. Generator Information

Generator Name: Multi Plate Circuits, Inc.
Site Address: 2362 Luna Field Rd.
City: Dallas State: TX Zip Code: 75229
Generator Contact: Randy Smith
Title: Waste Treatment Specialist
Telephone No. (214) 243-1557
Facility EPA I.D. No.: TXD041085101

B. Customer Information

Company Name: Chemaway Transport, Inc.
Contact: Marianne Boyd
Address: P.O. Box 877
Kaufman, TX 75142
Telephone No. (214) 932-7482
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
Water	0.2	
Copper	14.1	
Lead	0.8	
Plastic(Circuit Board Base)	84.8	

Common Name of Waste: Printed Circuit Board Chips

E. General Characteristics

Color: multi
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 %): 45.0
BTU's per lb (list as negative): <2000
Water (Wt %): ☒ <1 ☐ 1-5 ☐ 5-10 ☐ if > 10 list actual: 0.2
Specific Gravity: ☐ < 0.8 ☐ 0.8-1.0 ☐ 1.0-1.2 ☐ 1.2-1.4 ☐ 1.4-1.7 ☐ > 1.7 list actual: 1.84
Viscosity (for bulk liquids only) list actual in centipoise: 0 cp
Total Suspended Solids (Wt % - for bulk liquids only): ☐ 5-20 ☐ if > 20 list actual: 100
pH: ☐ 2-6 ☒ 6-10 ☐ 10-12.5 ☐ if < 2 or > 12.5 list actual: 7.2

Flash Point (closed cup):
☐ < 100°F ☐ > 200°F
☐ 100°-140°F ☒ >212 °F
☐ 140°-200°F actual

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 %	

Total 100mg/kg

Metals: EP Toxicity Test (MG/L)

Arsenic (As)	0	Selenium (Se)	0
Barium (Ba)	0	Silver (Ag)	0
Cadmium (Cd)	0	Copper (Cu)	14.1
Chromium (Cr)	0	Nickel (Ni)	0
Lead (Pb)	6.29	Zinc (Zn)	0
Mercury (Hg)	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	
Dioxin	0

DEQ051877

US V. MSP PRODUCED BY MSP 9/92 Releasable
BOX 45 REQUEST
MSD054
1984

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H. Notes, Additional Information or Special Handling Instructions

See Lab Report #89-23306

Generating Process: Manufacture of Printed Circuit Board Chips

I. Required Protective Equipment and Procedures

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

tyvek suits, hard hats, boots, gloves, goggles, respirators

J. Shipping Information

DOT Hazardous Material (Y) N

Proper Shipping Name: RQ Hazardous Waste Solid, NOS

DOT I.D. No. (circle one) UN/NA NA9189

Hazard Class: ORM-E

RQ: 1#

Anticipated Volume: 1 Drums Gal (Yds) Cubic lbs ☐ Bulk ☐ Roll

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. [signature] of 4.90
Generator's Signature

2. RANDALL SMITH
Name (Type or Print)

3. 03-13-90
Date

4. WASTE TRAFT SPECIALIST
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.

DEQ051878

MSP Form 1040 II Rev. 10/89

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REQUEST [illegible]

MSD054

1965

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NDRC LABORATORIES, INC.

Dallas - 1101 Commerce Drive • Richardson, Texas 75081 • (214) 238-5591 • Fax (214) 238-5592
Houston - 6284 Brookhill Drive • Houston, Texas 77087 • (713) 644-9437 • Fax (713) 644-9160

DATE RECEIVED: 10-19-89

REPORT NUMBER: 89-23306
REPORT DATE: 11-1-89

SAMPLE SUBMITTED BY: Chemaway Transport, Inc.
ADDRESS: P.O. Box 877
Kaufman, TX 75142
ATTENTION: Mr. R.L. LaQuey

SAMPLE GENERATOR: Multi Plate Circuit Board, Inc.
SAMPLE DESCRIPTION: Solid
IDENTIFYING MARKS: Printed Circuit Board Chips

EP TOXICITY METALS

Metal	EPA Method*	Detection Limit (mg/l)	Amount Detection (mg/l)
Arsenic	7061	0.05	< 0.05
Barium	7080	0.1	< 0.1
Cadmium	7130	0.01	< 0.01
Chromium	7190	0.05	< 0.05
Lead	7420	0.02	6.29
Mercury	7471	0.001	< 0.001
Selenium	7740	0.05	< 0.05
Silver	7760	0.01	< 0.01
Nickel	7520	0.05	< 0.05
Thallium	7840	0.1	0.2

* Samples were extracted for analysis following EPA Method 1310 and the individual metals were analyzed by the referenced methods from Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods (EPA SW-846).

NDRC Laboratories, Inc. David R Godwin ph

David R. Godwin, Ph.D.
Director of Technical Services

DEQ051879

US v. NSP
PRODUCED BY NSP 9/93
Releasable
REQUEST
Box 5
MSD054
1986

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NDRC LABORATORIES, INC.

Dallas - 1101 Commerce Drive • Richardson, Texas 75081 • (214) 238-5591 • Fax (214) 238-5592
Houston - 6284 Brookhill Drive • Houston, Texas 77087 • (713) 644-9437 • Fax (713) 644-9160

DATE RECEIVED: 10-19-89

REPORT NUMBER: 89-23306
REPORT DATE: 11-1-89

SAMPLE SUBMITTED BY: Chemaway Transport, Inc.
ADDRESS: P.O. Box 877
Kaufman, TX 75142
ATTENTION: Mr. R.L. LaQuey

SAMPLE GENERATOR: Multi Plate Circuit Board, Inc.
SAMPLE DESCRIPTION: Solid
IDENTIFYING MARKS: Printed Circuit Board Chips

ANALYSIS REPORT

TEST REQUESTED	DETECTION LIMIT		RESULTS	
Flash Point(Pensky-Martens)	N/A		> 212	°F
Density	0.001	g/cc	1.84	g/cc
Cyanide, Reactive	100	mg/Kg	< 100	mg/Kg
Sulfide, Reactive	100	mg/Kg	< 100	mg/Kg
Total Organic Halides(TOX)	100	mg/Kg	< 100	mg/Kg
Normality	0.1	N	< 0.1	N
Phenols	100	mg/Kg	< 100	mg/Kg
Polychlorinated Biphenyls(PCBs)	1.0	mg/Kg	< 1.0	mg/Kg
pH			7.2	

Chemical Composition (Qualitative Analysis):

Solvents:	< 0.01	%

No Solvents detected above 0.01 %.

Water	0.2	%
Copper	14.1	%
Lead	0.8	%
Plastic (i.e. Circuit Board Base)	84.8	%

NDRC Laboratories, Inc. David R Godwin

David R. Godwin, Ph.D.
Director of Technical Services

DEQ051880

US v. NSP Released
PRODUCED BY NSP 9/93
REQUEST
MSD054
197

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MSP MATERIALS CHARACTERIZATION DATA SHEET

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

MAR 16 1990

9001376

For MSP Use Only

Approval Code CHWY/MULT/9001376

A. Generator Information

Generator Name: Multiplate Co., Inc.
Site Address: 2363 Lufield Rd.
City: Dallas State: TX Zip Code: 75229
Generator Contact: Randy Smith
Title:
Telephone No.: (214) 243-1557
Facility EPA I.D. No.: TXD041085101

B. Customer Information

Company Name: Chemaway Transport, Inc.
Contact: Marianne Boyd
Address: P.O. Box 877
Kaufman, TX 75142
Telephone No.: (214) 932-7482
For Customer Use:

C. Regulatory Information

RCRA Regulated: Land Ban: Ocean Regulated: EPA Waste Code(s): D008

D. Chemical Composition

(NO TRADE NAMES. Ranges must not exceed 20%. Total in maximum column must be equivalent to 100%.)

	MIN	MAX
Water	0.2	
Copper	14.1	
Lead	0.8	
Plastic(Circuit Board Base)	84.8	

Common Name of Waste: Printed Circuit Board Chips

E. General Characteristics

Color: multi

Odor: [ ] None [ ] Mild [ ] Strong

[ ] Liquid [ ] Sludge [X] Solid [ ] Powder

Phases: [X] Single Layer [ ] Double Layer [ ] Multi-Layer

F. Specific Characteristics

Is the waste:

Explosive?	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

BTU's per lb (list actual value): 0

Water (Wt %): [X] <1 [ ] 1-5 [ ] 5-10 [ ] 1-5 if > 10
List actual: 0.2

Specific Gravity: [ ] < 0.8 [ ] 1.2-1.4 [ ] 0.8-1.0 [ ] 1.4-1.7 [ ] 1.0-1.2 [ ] > 1.7
List actual: 1.84

Viscosity (for bulk liquids only) list actual in centipoise: 0 cp

Total Suspended Solids (Wt %-for bulk liquids only): [ ] 5-20 [ ] if > 20
List actual: 100

pH: [ ] 2-6 [X] 6-10 [ ] 10-12.5 [ ] if < 2 or > 12.5
List actual: 7.2

Flash Point (closed cup): [ ] < 100°F [ ] > 200°F [ ] 100°-140°F [X] > 212 °F [ ] 140°-200°F actual

Sulfur (Wt %): [ ] < 5 [ ] if > 5 list actual value: 0

Halogens (Wt %): <1 / 1-5 / 5-10 / if > 10 list actual Wt %

	<1	1-5	5-10	if > 10 list actual Wt %
[ ] Iodine	X	[ ]	[ ]	
[ ] Bromine	X	[ ]	[ ]	
[ ] Chlorine	X	[ ]	[ ]	
[ ] Fluorine		actual	Wt %	
Total	100mg/kg			

DE0051881

Metals: EP Toxicity Test (MG/L)

Arsenic (As)	0	Selenium (Se)	0
Barium (Ba)	0	Silver (Ag)	0
Cadmium (Cd)	0	Copper (Cu)	14.1
Chromium (Cr)	0	Nickel (Ni)	0
Lead (Pb)	6.29	Zinc (Zn)	0
Mercury (Hg)	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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H. Notes, Additional Information or Special Handling Instructions

See Lab Report #89-23306

Generating Process: Manufacture of Printed Circuit Board Chips

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.

tyvek suits, hard hats, boots, gloves, goggles, respirators

J. Shipping Information

DOT Hazardous Material (Y) N (circle one)

Proper Shipping Name: RQ Hazardous Waste Solid, NOS DOT I.D. No. UN/NA NA9189

Hazard Class: ORM-E RQ: 1#

Anticipated Volume: 1 Drums Gal (Yds Cubic) Lbs ☐ Bulk ☐ Roll

Container Size: 55 gallon Container Type: metal drum

Per: ☐ One time ☐ Week X 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. [signature] Generator's Signature

2. RANDALL SMITH Name (Type or Print)

3. 03-13-90

4. WASTE TRAFFIC SPECIALIST 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.

DEQ051882

MSP Form 1040 II Rev. 10/89

US v. MSP Releasable PRODUCED BY MSP 9/93 REQUEST

BOX 5 Hazardous Waste Material

MSD054

1989

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

RECYCLE / REUSE

MANIFEST 011309

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.: LAH000239869 / 0101619 0

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
ELECTRO-SPACE FABRICATORS, INC.
300 W. HIGH STREET, TOPTON, PA 19562

4. Generator's Phone (215) 682-7181

5. Transporter 1 Company Name — 6. US EPA ID Number
D&J TRANSPORTATION SPECIALIST INC — NYD018181615

7. Transporter 2 Company Name — 8. US EPA ID Number

9. Designated Facility Name and Site Address — 10. US EPA ID Number
MARINE SHALE PROCESSORS, INC.
HIGHWAY 90 EAST
MORGAN CITY, LOUISIANA 70380 — LAD981057706

A. State Manifest Document Number: 00690
B. State Generator's ID: Same
C. State Transporter's ID:
D. Transporter's Phone: 315-475-5089
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: (504) 631-3161

GENERATOR

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. RQ, WASTE PAINT RELATED MATERIAL, FLAMMABLE LIQUID, NA 1263, (F003, D007)	X11	DM	36000	P	F003 R D007
b.					R
c.					R
d.					R

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
a) SAL/ESF-9002694, (ESF-03) LEFT OVER PAINT & SPENT PAINT FILTERS

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
ATTACH: LAND DISPOSAL RESTRICTION NOTICE

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: PETER J. MATT — Signature: [signature] — Month Day Year: 10/6/1990

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Alex J. Smith — Signature: [signature] — Month Day Year: 10/12/1990

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space
DEQ051883

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: GARY BASSETT — Signature: [signature] — Month Day Year

EPA Form [illegible] — [illegible]

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US v. MSP — Releasable — PRODUCED BY MSP 9/93 — REQUEST [illegible] — BOX [illegible] — [illegible] waste manifest

MSD054

1970 F

ESF-05

"LEFT OVER PAINT & SPENT PAINT FILTERS"

MSP MATERIALS CHARACTERIZATION DATA SHEET

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

MAY 16 1990

900269⅓

For MSP Use Only
Approval Code: SAL/ESF/9002694

COMMON NAME: LEFT OVER PAINT + SPENT PAINT FILTERS

A. Generator Information

Generator Name: ELECTRO SPACE FABRICATORS
Site Address: 300 W. HIGH STREET
City: TOPTON State: PA Zip Code: 19562
Generator Contact: PETER J. MATT
Title: PURCH. AGENT
Telephone No. (215) 682-7181
Facility EPA I.D. No.: PAD 002 368 066

B. Customer Information

Company Name: SALDOT CORPORATION
Contact: 227 SOLAR STREET
Address: SYRACUSE, NY 13204
NORMAN R. GAROFANO
Telephone No. (315) 475-1553
For Customer Use:

PROCESS: LEFT OVER PREPARED PAINT AND SPENT FILTERS FROM PAINT BOOTH OPER.

C. Regulatory Information

(X) RCRA Regulated (X) Land Ban ☐ Non-Regulated EPA Waste Code(s): F003 D007

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 IN 1 & 5 GAL CANS (CONTAINING 1-5% CATALYSTS & 1-5% REDUCERS)	30	70%
SPENT PAINT FILTERS (POLYESTER / PAPER) [SEE NOTES "4"] (SEE ATTACHED MSDS, FOR PAINTS, CATALYSTS & REDUCERS)	30	70%

Common Name of Waste: LEFT OVER PAINT + SPENT PAINT FILTERS

E. General Characteristics

Color: VARIES
Odor: ☐ None ☐ Mild (X) Strong
(X) Liquid < 10% ☐ Sludge (X) Solid ☐ Powder
Phases: ☐ Single Layer (X) 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% EST
BTU's per lb (list actual value): 7000 - 10000 EST
Water (Wt %): (X) <1 ☐ 5-10 ☐ 1-5 if > 10 list actual ____
Specific Gravity: ☐ < 0.8 ☐ 1.2-1.4 ☐ 0.8-1.0 ☐ 1.4-1.7 (X) 1.0-1.2 ☐ > 1.7 list actual ____
Viscosity (for bulk liquids only) list actual in centipoise: ____ cp
Total Suspended Solids (Wt %-for bulk liquids only): ☐ 5-20 if > 20 list actual ____
pH: ☐ 2-6 ☐ 6-10 ☐ 10-12.5 if < 2 or > 12.5 ORGANIC list actual NEUTRAL

Flash Point (closed cup): (X) < 100°F ☐ 100°-140°F ☐ 140°-200°F ☐ > 200°F ☐ 80 °F actual (EST)
Sulfur (Wt %): (X) < 5 if > 5 list actual value ____
SEE ATTACHED MSDSs

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

N.S. = NONE SUSPECTED

Metals: EP Toxicity Test (MG/L) (EST)

Arsenic (As)	< 5.0	Selenium (Se)	< 1.0
Barium (Ba)	< 100.0	Silver (Ag)	< 5.0
Cadmium (Cd)	< 1.0	Copper (Cu)	
Chromium (Cr)	< 0.1% (EST)	Nickel (Ni)	
Lead (Pb)	< 5.0	Zinc (Zn)	
Mercury (Hg)	< 0.2		

Organics (ppm)

Endrin	N.S.
Lindane	
Methoxychlor	
Toxaphene	
2,4-D	
2,4,5-TP (Silvex)	

If material contains the following compounds, indicate actual ppm:

PCB	N.S.
Cyanides	< 0.25 EST
Sulfides	N.S.
Dioxin	

DEM051884

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MSD054

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"LEFT OVER PAINT & SPENT PAINT FILTERS"

H. Notes, Additional Information or Special Handling Instructions

SEE ATTACHED MSDS; (PAINTS, CATALYSTS & REDUCERS)

PAINT FILTERS ARE POLYESTER/PAPER IN TWO DIFFERENT SIZES, 1 (20" X 20" X 1") AND (6 FOOT X 45 INCH X 1 INCH) & CRUSHED INTO DRUMS.

Generating Process: LEFT OVER PREPARED PAINT AND SPENT PAINT FILTERS FROM PAINT BOOTH OPERATION.

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.

SEE ATTACHED MSDS;

J. Shipping Information

DOT Hazardous Material (Y) N

Proper Shipping Name: R.Q. PAINT RELATED MATERIAL

DOT I.D. No. (circle one) UN (NA) NA 1263 (F003, D007)

Hazard Class: FLAMMABLE LIQUID

RQ: 100

Anticipated Volume: (70-80 Drums) Gal Yds Lbs ☐ Bulk? ☐ Roll?

Container Size: 55 GAL Container Type: METAL

Per: ☐ One time ☐ Week ☐ Month (X 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 [signature] — Generator's Signature

2. PETER J. MATT — Name (Type or Print)

3. X 5/14/90 — Date

4. PURCH. AGENT — Title

Recertification Requirements

This Materials Characterization Data Sheet must be recertified (i.e. updated) twelve months from the date signed and thereafter recertified on on 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.

DEQ051885

MSP Form 1040 II Rev. 10/89

US V. MSP Releasable PRODUCED BY MSP 9/93 REQUEST # ____ BOX # 5 Underground storage tanks MCDS

MSD054

19720

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

RECYCLE / REUSE

MANIFEST Nº 015941

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 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address	A. State Manifest Document Number
4. Generator's Phone ( )	B. State Generator's ID 38424
5. Transporter 1 Company Name	C. State Transporter's ID 40605
6. US EPA ID Number	D. Transporter's Phone (214)932-7482
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 LAD981057706	H. Facility's Phone (504) 631-3161

GENERATOR

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. NON REGULATED MATERIAL PAINT FILTER	1	DM	055	P	NRM R
b.					R
c.					R
d.					R

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE

CHWI/BSNC/9001629/55 GAL PAINT FILTERS

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

IN CASE OF SPILL NOTIFY AND CONTAIN NOTIFY GENERATOR

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	Signature	Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
Todd Snider		3 22 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

FACILITY

19. Discrepancy Indication Space

DEQ051886

20. 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

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MSD054

1973 F

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC. MAR 27 1990
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310 9001629

For MSP Use Only
Approval Code C HWY/BSNC/9001629

A. Generator Information

Generator Name: BSN Corporation
Site Address: 1901 Diplomat
City: Farmers Branch State: TX Zip Code: 75234
Generator Contact: David Roberson
Title: Director of Plant Operations
Telephone No.: (214) 484-9484
Facility EPA I.D. No.: TXD982551582

B. Customer Information

Company Name: Chemaway Transport, Inc.
Contact: Marianne Boyd
Address: P.O. Box 877
Kaufman, Texas 75142
Telephone No.: 214 932-7482
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 (Wt %)	MAX
Kerosene	0.47	
Paint Polymer	24.3	
Paint Pigment	8.6	
Water	66.63	

Common Name of Waste: Paint Filters

E. General Characteristics

Color: Blue
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 %): 10.0
BTU's per lb (list actual value): >5000
Water (Wt %): ☐ <1 ☐ 5-10 ☐ 1-5 ☒ >10 list actual 66.5
Specific Gravity: ☐ Li < 0.8 ☐ 1.2-1.4 ☐ 0.8-1.0 ☐ 1.4-1.7 ☒ 1.0-1.2 ☐ > 1.7 list actual 1.040 g/cc
Viscosity (for bulk liquids only) list actual in centipoise: 0 cp
Total Suspended Solids (Wt % for bulk liquids only): ☐ 5-20 ☒ > 20 list actual 0
pH: ☒ 2-6 ☐ 6-10 ☐ 10-12.5 ☐ < 2 or > 12.5 list actual 4.8

Flash Point (closed cup): ☐ < 100°F ☐ 100-140°F ☒ 140°-200°F X 212 °F actual ☐ > 200°F
Sulfur (Wt %): ☒ < 5 ☐ > 5 list actual value

Halogens (Wt %):

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

DEQ051887

Metals: EP Toxicity Test (MG/L)

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

US v. MSP
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REQUEST #
BOX #5
Uploaded 1402 additional Waste Characterization Sheets
MSD054
19794

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H. Notes, Additional Information or Special Handling Instructions

See Laboratory Analysis #89-11765

Generating Process: Paint Booth Clean-out

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, Goggles, Tyvek Suits, Hard Hats, Respirators and Boots

J. Shipping Information

DOT Hazardous Material: Y (N)

Proper Shipping Name: Non Regulated — DOT I.D. No. — (circle one) UN/NA

Hazard Class — RQ

Anticipated Volume: 2 (Drums) Gal Yds Lbs ☐ Bulk ☐ Roll

Container Size: 55 Gallon — Container Type: Open Head 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. [signature] — Generator's Signature

2. Gerald Kestler/Director of Plant Operatins — Name (Type or Print)

3. 03/16/90 — Date

4. Director of Plant Operations — 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.

DEQ051888

MSP Form 1040 II Rev. 10/89

U.S. v. MSP — Releasable — PRODUCED BY MSP 9/93 — REQUEST — MSD054 — 1975

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NDRC LABORATORIES, INC.

Dallas - 1101 Commerce Drive • Richardson, Texas 75081 • (214) 238-5591 • Fax (214) 238-5592
Houston - 6284 Brookhill Drive • Houston, Texas 77087 • (713) 644-9437 • Fax (713) 644-9160

DATE RECEIVED: 6-14-89

REPORT NUMBER: 89-11765
REPORT DATE: 7-5-89

SAMPLE SUBMITTED BY: Chemaway Transport, Inc.
ADDRESS: P.O. Box 877
Kaufman, TX 75142
ATTENTION: Mr. Eric Zimmer

SAMPLE GENERATOR: B.S.N. Corp
SAMPLE DESCRIPTION: Solid
IDENTIFYING MARKS: Waste paint filters

EP TOXICITY METALS

Metal	EPA Method*	Detection Limit (mg/l)	Amount Detection (mg/l)
Arsenic	7061	0.01	<0.01
Barium	7080	0.1	0.06
Cadmium	7130	0.01	<0.01
Chromium	7190	0.05	<0.05
Lead	7420	0.02	<0.02
Mercury	7471	0.001	<0.001
Selenium	7740	0.01	<0.01
Silver	7760	0.01	<0.01
Nickel	7520	0.05	<0.05
Thallium	7840	0.1	<0.1

* Samples were extracted for analysis following EPA Method 1310 and the individual metals were analyzed by the referenced methods from Test Methods for Evaluating Solid Wastes: Physical/ Chemical Methods (EPA SW-846).

NDRC Laboratories, Inc. David R. Godwin, Ph.D.
Director of Technical Services

DEQ051889

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US v. NSP Releasable
PRODUCED BY NSP 9/93
REQUEST
Box 5 Extra address Water Wells

MSD054

1976

JUL- 5-89 WED 10:11

NDRC LABORATORIES, INC.

Dallas - 1101 Commerce Drive • Richardson, Texas 75081 • (214) 238-5591 • Fax (214) 238-5592
Houston - 6284 Brookhill Drive • Houston, Texas 77087 • (713) 644-9437 • Fax (713) 644-9160

DATE RECEIVED: 6-14-89

REPORT NUMBER: 89-11765
REPORT DATE: 7-5-89

SAMPLE SUBMITTED BY: Chemaway Transport, Inc.
ADDRESS: P.O. Box 877
Kaufman, TX 75142
ATTENTION: Mr. Eric Zimmer

SAMPLE GENERATOR: B.S.N. Corp
SAMPLE DESCRIPTION: Solid
IDENTIFYING MARKS: Waste paint filters

ANALYSIS REPORT

TEST REQUESTED	DETECTION LIMIT	RESULTS
Flash Point	N/A	>212°F
Specific Gravity	0.001 g/cc	1.040 g/cc
Cyanide	4.0 mg/kg	< 3.9 mg/kg
Sulfide	1.0 mg/kg	< 1.0 mg/kg
Total Organic Halides	100 mg/kg	<100 mg/kg
Normality	0.1 N	< 0.1 N
Phenols	10.0 mg/kg	< 10.0 mg/kg
Polychlorinated Biphenyls (PCBs)	1.0 mg/kg	< 1.0 mg/kg
pH		4.8
Chemical Composition (Qualitative-Accuracy Precision 5%)		
Solvents:		0.47 %
Kerosene		0.47 %
Paint polymer		24.3 %
Paint pigment		8.6 %
Water		66.5 %

DEQ051890

Should you have any questions concerning this lab report, please contact the following person.

NDRC Laboratories, Inc. David R. Godwin, Ph.D.

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MSD054

1971

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

RECYCLE / REUSE

MANIFEST 013556

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.: P|A|D|1|1|0|1|6|8|3|0|7|8 | 1|5|4|6

2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
STECO INC.
ST. CLAIR INDUSTRIAL PARK, ST. CLAIR, PA 17960

4. Generator's Phone (717) 429-0220

5. Transporter 1 Company Name: D & J TRANSPORTATION SPECIALISTS INC.
6. US EPA ID Number: N Y D 0 8 8 6 5 8 6 4 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)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	Waste No.
a. RQ, WASTE FLAMMABLE LIQUID, N.O.S. FLAMMABLE LIQUID, UN 1993 (CONTAINS XYLENE)	0 1 06	DM	1 3 6 0 0	P	D 0 0 3 R
b.					R
c.					R
d.					R

J. Additional Descriptions for Materials Listed Above: RECYCLE/REUSE
a) APPROVAL: BAL/STEC-9002139; (SITE-01) STILL BOTTOMS

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
ATTACH: LAND RESTRICTION NOTICE

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.

GENERATOR — Printed/Typed Name: THOMAS J. CONROY | Signature | Month Day Year: 0 6 1 8 9 1 0

TRANSPORTER
17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: Alex J. Smith | Signature | Month Day Year: 0 6 1 8 9 1 0
18. Transporter 2 Acknowledgement of Receipt of Materials — Printed/Typed Name | Signature | Month Day Year

FACILITY
19. Discrepancy Indication Space: DEQ051891

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 Bisset | Signature | Month Day Year: 0 6 1 9 9 1 0

EPA Form 8700-22 (Rev. 9-88) WHITE - DEQ GREEN - Generator YELLOW - TOPPS BLUE -

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US V. MSP Released to PRODUCED BY MSP 9/93 REQUEST

MSD054

19 78

"STILL BOTTOMS"

MATERIALS CHARACTERIZATION DATA SHEET

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

APR 19 1990

For MSP Use Only
Approval Code SAL/STEC/9002139

9002139

Waste Common Name: STILL BOTTOMS

A. General Information

Company Name STECO INC.
Address ST. CLAIR IND. P.K
City ST. CLAIR State PA Zip Code 17970
Generator Contact THOMAS J CONRAY
Title PERSONNEL DIRECTOR
Telephone No. (717) 429-0220
Facility EPA I.D. No. PAD 101663 078

B. Customer Information

Company Name SALDOT CORPORATION
Contact 227 SOLAR STREET
Address SYRACUSE, NY 13204
Contact: Norm Garofano
Telephone No. (315) 475-1553
For Customer Use

Generating Process: STILL BOTTOMS FROM RECOVERY OF SOLVENTS (MAINLY XYLENE)

C. Regulatory Information

(X) RCRA Regulated (X) 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
STILL BOTTOMS FROM RECOVERY OF XYLENE SEE ATTACHED ANAL. RPT (1-10-90)		100%

Common name of waste: STILL BOTTOMS

E. General Characteristics

Color BROWNISH
Odor ☐ None ☐ Mild (X) Strong
(X) Liquid 1-2% ☐ Sludge (X) Solid ☐ Powder
Phases ☐ Single Layer (X) 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 %): (X) < 10 %
Water (Wt %): (X) < 1 ☐ 5-10 ☐ 1-5 if > 10
BTU's per lb (list actual value): 10-12,000 BTU/LB (est) list actual
Specific Gravity: ☐ < 0.8 ☐ 1.2-1.4 (X) 0.8-1.0 ☐ 1.4-1.7 ☐ 1.0-1.2 ☐ > 1.7 list actual
Viscosity (for bulk liquids only) list actual in centipoise: cp
Total Suspended Solids (Wt % – for bulk liquids only): ☐ 5-20 if > 20 list actual
pH: ☐ 2-6 ☐ 6-10 ☐ 10-12.5 if < 2 or > 12.5 ORGANIC list actual NEUTRAL

Flash Point (closed cup): (X) < 100°F ☐ 100°-140°F ☐ 140°-200°F ☐ > 200°F ☐ < 80°F actual °F
Sulfur (Wt %): (X) < 5 If > 5 list actual value

SEE ATTACHED ANAL RPT (1-10-90)

Halogens (Wt %): <1 (X) Iodine (X) Bromine (X) Chlorine (X) Fluorine; 1-5 ☐ ☐ ☐ ☐; 5-10 ☐ ☐ ☐ ☐; If > 10 list actual Wt %

Metals EP Toxicity Test (MG/L)

Arsenic (As)	< 0.001	Selenium (Se)	< 0.002
Barium (Ba)	< 0.1	Silver (Ag)	0.03
Cadmium (Cd)	0.02	Copper (Cu)	0.01
Chromium (Cr)	0.10	Nickel (Ni)	
Lead (Pb)	0.52	Zinc (Zn)	0.52
Mercury (Hg)	0.0003		

Organics (ppm): N.S.
Endrin
Lindane
Methoxychlor
Toxaphene
2,4-D
2,4,5-TP (Silvex)

If material contains the following compounds, indicate actual ppm: N.S.
PCB
Cyanides
Sulfides
Dioxin

N.S. = NONE SUSPECTED

DE0051892

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REQUEST #
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FOLDER

MSD054

STILL BOTTOMS

STE-01

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

SEE ANAL RPT (1-10-90) ATTACHED

Generating process: STILL BOTTOMS FROM RECOVERY OF SOLVENTS (MAINLY XYLENE)

J. Shipping Information

DOT Hazardous Material (Y) N (circle one)

Proper Shipping Name R.Q., WASTE FLAMMABLE LIQUID, N.O.S. DOT I.D. No. UN/NA UN 1993 (FOOJ)

Hazard Class FLAMMABLE LIQUID RQ 100

Anticipated Volume (2-5 Drums) Gal Yds Lbs D Bulk D Roll

Container Size 55GAL Container Type METAL

Per D One time D Week D Month D Year (X 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. X Thomas J. Conroy — Generator's Signature

2. X Thomas J. Conroy — Name (Type or Print)

3. — Date 4/09/90

4. Personnel Director — Title DEQ051893

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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BOX 5 Waste Characterization Materials

MSD054

1980

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LABORATORY REPORT

MDS Laboratories

INDUSTRIAL HYGIENE — ENVIRONMENTAL TESTING

- EPA/NVLAP 1262
- AIHA ACCREDITATION NO. 135
- NY DOH 10903
- PA DER 06-353
- NJ DEP 77678

STE-01

CLIENT: COMPLIANCE SERVICES
P.O. Box 512
Southeastern, PA 19399

SAMPLE #: 01-1090-01 STILL BOTTOMS
SAMPLE DATE: ----
SAMPLE TIME: ----
SAMPLED BY: ----
RECEIVED BY: EWF
DATE & TIME RECEIVED: 01-10-90 0850
P.O. #1389

PROJECT DESCRIPTION: Steco Trailer
STATION: "still bottoms"

PARAMETER	RESULTS
BOD	
COD	
TOC	
Acidity	
Alkalinity	
Hardness	
pH	
Conductivity	
Specific Gravity	
Color (Pt-Co)	
Odor (TON)	
Turbidity (NTU)	
Bromide	
Chloride	
Fluoride	
Iodide	
Free chlorine	
Cyanide, total	
Cyanide, amenable	
Ammonia nitrogen	
Nitrate nitrogen	
Nitrite nitrogen	
Albuminoid nitrogen	
Organic nitrogen	
Phosphate, total	
Phosphate, ortho	
Silica as SiO2	
Sulfate	
Sulfite	
Sulfide	
Total solids	
Dissolved solids	
Suspended solids	
Volatile solids	
Settleable solids	
Grease & oil	
Pet. hydrocarbons	
Detergents	
Phenols	

PARAMETER	E.P. TOX RESULTS
Aluminum	
Antimony	
Arsenic	< 0.001 mg/L
Barium	< 0.10 mg/L
Beryllium	
Cadmium	0.02 mg/L
Calcium	
Chromium, total	0.10 mg/L
Chromium, hex.	
Copper	0.01 mg/L
Iron	
Lead	0.52 mg/L
Magnesium	
Manganese	
Mercury	0.0003 mg/L
Molybdenum	
Nickel	
Potassium	
Selenium	< 0.002 mg/L
Silver	0.02 mg/L
Silicon	
Sodium	
Thallium	
Tin	
Titanium	
Vanadium	
Zinc	0.52 mg/L

OTHER PARAMETERS:

DEQ051894

Reviewed by: CRA
Craig R. Achenbach
Laboratory Supervisor

4418 POTTSVILLE PIKE, READING, PENNSYLVANIA 19605 215-921-8833 FAX 215-921-9667

US v. NSP PRODUCED BY NSP 9/93 Releasable
Box 5 Steco Trailer Water Sample Results
MSD054
1981

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MDS Laboratories

LABORATORY REPORT

INDUSTRIAL HYGIENE ENVIRONMENTAL TESTING

• EPA/NVLAP 1262 • NY DOH 10903 • NJ DEP 77678
• AIHA ACCREDITATION NO. 135 • PA DER 06-353

STE-01

STILL BOTTOMS

CLIENT: COMPLIANCE SERVICES
P.O. Box 512
Southeastern, PA 19399

SAMPLE #: 01-1090-01
SAMPLE DATE: ----
SAMPLE TIME: ----
SAMPLED BY: ----
RECEIVED BY: EWF
DATE & TIME RECEIVED: 01-10-90 0850
P.O. #1389

PROJECT DESCRIPTION: Steco Trailer
STATION: "still bottoms"

PURGEABLE HALOCARBNS--EPA METHOD 601/8010

	PARAMETER	RESULTS
1.	Bromodichloromethane	< 100.0 ug/kg
2.	Bromoform	< 100.0 ug/kg
3.	Bromomethane	< 100.0 ug/kg
4.	Carbontetrachloride	< 100.0 ug/kg
5.	Chlorobenzene	< 100.0 ug/kg
6.	Chloroethane	< 100.0 ug/kg
7.	2-chloroethylvinyl ether	< 100.0 ug/kg
8.	Chloroform	< 100.0 ug/kg
9.	Chloromethane	< 100.0 ug/kg
10.	Dibromochloromethane	< 100.0 ug/kg
11.	1,2-dichlorobenzene	< 100.0 ug/kg
12.	1,3-dichlorobenzene	< 100.0 ug/kg
13.	1,4-dichlorobenzene	< 100.0 ug/kg
14.	Dichlorodifluoromethane	< 100.0 ug/kg
15.	1,1-dichloroethane	< 100.0 ug/kg
16.	1,2-dichloroethane	< 100.0 ug/kg
17.	1,1-dichloroethene	< 100.0 ug/kg
18.	trans-1,2-dichloroethene	< 100.0 ug/kg
19.	1,2-dichloropropane	< 100.0 ug/kg
20.	cis-1,3-dichloropropene	< 100.0 ug/kg
21.	trans-1,3-dicloropropene	< 100.0 ug/kg
22.	Methylene chloride	< 100.0 ug/kg
23.	1,1,2,2-tetrachloroethane	< 100.0 ug/kg
24.	Tetrachloroethene	< 100.0 ug/kg
25.	1,1,1-trichloroethane	< 100.0 ug/kg
26.	1,1,2-trichloroethane	< 100.0 ug/kg
27.	Trichloroethene	< 100.0 ug/kg
28.	Trichlorofluoromethane	< 100.0 ug/kg
29.	Vinyl chloride	< 100.0 ug/kg

Reviewed by: _____
Craig R. Achenbach
Laboratory Supervisor

DEQ051895

4638 POTTSVILLE PIKE, READING, PENNSYLVANIA 19605 PHONE 610-929-3000 FAX 610-929-3005

US V. NSP Releasable PRODUCED BY NSP 9/93 REQUEST
MSD054
1982

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MDS Laboratories
INDUSTRIAL HYGIENE ENVIRONMENTAL TESTING
• EPA/NVLAP 1262
• AIHA ACCREDITATION NO. 135
• NY DOH 10903
• PA DER 06-353
• NJ DEP 77678

STE-01
STILL BOTTOMS

CLIENT: COMPLIANCE SERVICES
P.O. Box 512
Southeastern, PA 19399

SAMPLE #: 01-1090-01
SAMPLE DATE: ----
SAMPLE TIME: ----
SAMPLED BY: ----
RECEIVED BY: EWF
DATE & TIME RECEIVED: 01-10-90 0850
P.O. #1389

PROJECT DESCRIPTION: Steco Trailer
STATION: "still bottoms"

PURGEABLE AROMATICS--EPA METHOD 602/8020

PARAMETER	RESULTS	
1. Benzene	235.	ug/kg
2. Chlorobenzene	< 100.	ug/kg
3. 1,2-Dichlorobenzene	< 100.	ug/kg
4. 1,3-Dichlorobenzene	< 100.	ug/kg
5. 1,4-Dichlorobenzene	< 100.	ug/kg
6. Ethylbenzene	2910.	ug/kg
7. Toluene	3430.	ug/kg
OTHER PARAMETERS:		
8. Xylene	23000.	ug/kg

Reviewed by: _____
Craig R. Achenbach
Laboratory Supervisor

4418 POTTSVILLE PIKE, READING, PENNSYLVANIA 19605 215-921-8833 FAX 215 921-9667

DE0051896

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DOJ/ENRD/Environmental Crimes Section
MSD054
1983

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MDS Laboratories
INDUSTRIAL HYGIENE ENVIRONMENTAL TESTING
• EPA/NVLAP 1262 • NY DOH 10903 • NJ DEP 77678
• AIHA ACCREDITATION NO. 135 • PA DER 06-353

STE-01

CLIENT: COMPLIANCE SERVICES
P.O. Box 512
Southeastern, PA 19399

SAMPLE #: 01-1090-01 STILL BOTTOMS
SAMPLE DATE: ----
SAMPLE TIME: ----
SAMPLED BY: ----
RECEIVED BY: EWF
DATE & TIME RECEIVED: 01-10-90 0850
P.O. #1389

PROJECT DESCRIPTION: Steco Trailer
STATION: "still bottoms"

EPA "F" LIST ORGANIC COMPOUNDS

	PARAMETER	RESULTS	
F001	1. Tetrachloroethylene	< 50.0	ug/kg
	2. Trichloroethylene	< 50.0	ug/kg
	3. Methylene Chloride	< 330.0	ug/kg
	4. 1,1,1-Trichloroethane	< 330.0	ug/kg
	5. Carbon Tetrachloride	< 330.0	ug/kg
	6. Chlorinated Fluorocarbons	< 330.0	ug/kg
F002	1. Chlorobenzene	< 50.0	ug/kg
	2. 1,1,2-Trichloro-1,2,2-trifluoroethane	< 330.0	ug/kg
	3. o-Dichlorobenzene	< 50.0	ug/kg
	4. Trichlorofluoromethane	< 330.0	ug/kg
F003	1. Xylenes (total)	23000.	ug/kg
	2. Acetone	< 330.0	ug/kg
	3. Ethyl acetate	< 330.0	ug/kg
	4. Ethyl benzene	2910.	ug/kg
	5. Ethyl ether	< 330.0	ug/kg
	6. MIBK	< 330.0	ug/kg
	7. n-butanol	< 330.0	ug/kg
	8. Cyclohexanone	< 330.0	ug/kg
	9. Methanol	< 330.0	ug/kg
F004	1. Cresol	< 330.0	ug/kg
	2. Cresylic acid	< 100.0	ug/kg
	3. Nitrobenzene	3430.	ug/kg
F005	1. Toluene	< 330.0	ug/kg
	2. MEK	< 330.0	ug/kg
	3. Carbon disulfide	< 330.0	ug/kg
	4. Isobutanol	< 330.0	ug/kg
	5. Pyridine	235.	ug/kg
	6. Benzene	< 330.0	ug/kg
	7. 2-Methoxy ethanol	< 330.0	ug/kg
	8. 2-Nitropropene	< 330.0	ug/kg

Reviewed by: CRA
Craig R. Achenbach
Laboratory Supervisor

DEQ051897

4418 POTTSVILLE PIKE, READING, PENNSYLVANIA 19605 215-921-8833 FAX 215-921-9667

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1984

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SALDOT CORPORATION
ENVIRONMENTAL SERVICES
227 SOLAR STREET SYRACUSE, NEW YORK 13204
PHONE (315) 475-1553

April 16, 1990

Ms. Barbara Fonseca
Technical Representative
Marine Shale Processors, Inc.
110 James Drive W., Suite 120
Saint Rose, LA 70087

Dear Ms. Fonseca:

Enclosed is a completed Materials Characterization Data Sheet and Associated Documents of waste material from our customer, Steco Co., St, Clair, Pennsylvania, as follows:

Our Code	Waste Material Common Name	EPA Type
STE-01	Still Bottoms	F003

Please give this your technical review and advise us of acceptability and price ASAP.

Sincerely,

Norm Garofano

Norman R. Garofano
Operations Manager
Saldot Corporation

Enclosed: MCDS (1)

cc: M. Scornavacchi
STE file
MSP file

DE0051898

US V. MSP Releasable
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REQUEST
BOX
MSD054
1957

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

RECYCLE / REUSE

MANIFEST No. 911989

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. TND981270400	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
AMERICAN RESOURCE RECOVERY CORP.
931 E. BODLEY MEMPHIS, TN. 38106

4. Generator's Phone (901) 774-2340

5. Transporter 1 Company Name: AMERICAN RESOURCE RECOVERY
6. US EPA ID Number: TNP000128800

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: LAD981057706

	11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	Waste No.
a.	"RQ" HAZARDOUS WASTE SOLID N.O.S. (M.E.K., TOLUENE) NA 9189 (E.P.A. F003,F005) ORM-E "RQ" 1 LB	025	DM	12500	LBS	F003, F005
b.	"RQ" HAZARDOUS WASTE SOLID N.O.S. (PAINT FILTERS) NA9189 (E.P.A. F005) ORM-E "RQ" 1 LB	006	DM	23000	LBS	D008, F005
c.	"RQ" HAZARDOUS WASTE SOLID N.O.S. (PAINT SOLIDS) NA9189 (E.P.A. F002) ORM-E "RQ" 1 LB	008	DM	4000	LBS	D008, F002
d.	"RQ" HAZARDOUS WASTE SOLID N.O.S. (CHR, OIL DRI) NA9189 (E.P.A. D001) ORM-E "RQ" 100 LBS	012	DM	6000	LBS	D008, D001

[redacted]

15. Special Handling Instructions and Additional Information
IN CASE OF SPILL OR ACCIDENT :CONTACT CTC INDUSTRIAL SERVICES, INC. @ 901-952-1212
EMERGENCY RESPONSE UNIT

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	Signature	Month Day Year
[illegible]	[signature]	10 12 13 91

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
Wayne Hill	Wayne Hill	10 12 13 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

FACILITY

19. Discrepancy Indication Space
DEQ051899

20. 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
GINA BASSETT	[signature]	10 19 91

EPA Form 8700-22 (Rev. 9-88) WHITE – DEQ, GREEN – Generator, YELLOW – TSDRF, BLUE – Transporter 2, PINK – Transporter 1, GOLD – Generator DEQ FORM 1 (REV 9/91)

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US V. MSP PRODUCED BY MSP 9/93 RELEASABLE REQUEST

MSD054

1989

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RECEIVED JUN 15 1990

RECERTIFICATION OF MATERIAL CHARACTERIZATION DATA SHEET

MSP Approval Code: ARR /ARR /8903683/ /

Date printed: 6/04/90 Rep.ID: ERQ

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: AMERICAN RESOURCE RECOVERY COR
Telephone: (901) 774-2340 x.0000
Facility Address: 901 EAST BOBLEY (38106)
USEPA ID: TND991279480
P.O. BOX 1533
MEMPHIS, TN 38101-0000

OK

Name of Waste: WASTE PAINT FILTERS
Generating Process: PAINT BOOTH
Technical Contact: MR. JEFF MAYS
Title: ENVIRONMENTAL COORDINATOR

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:

DEQ051900

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) D.O.T. SPEC 0H 55-GALLON

Anticipated Volume: _____ Gals. _____ Cubic Yds. _____ Other 20 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: JEFF C. MAYS
Signature: Jeff C. Mays
Title: ENVIRONMENTAL COORDINATOR
Date: 6/11/90

MSP Form 1040-R (November 89)

U.S. v. MSP Releasable
PRODUCED BY MSP 9/93
REQUEST
Waste Characterization Records

MSD054

1987

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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 8903083

A. Generator Information

Generator Name AMERICAN RESOURCE RECOVERY
Site Address 901 EAST BODLEY
City MEMPHIS State TN Zip Code 38106
Generator Contact JEFF MAYS
Title ENVIRONMENTAL COORDINATOR
Telephone No. (901) 774-2340
Facility EPA I.D. No. TND 991279480

B. Customer Information

Company Name ARR CORP.
Contact DON or SCOTT DOWDY
Address PO BOX 1533
MEMPHIS, TN 38101
Telephone No. (901) 174-2050
For Customer Use

C. Regulatory Information

X RCRA Regulated X 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
FIBERGLASS PAINT FILTERS - DRY	90	95
PAINT PIGMENTS & SOLIDS	2	5
DIRT, DUST, DEBRIS	1	3
TOLUENE	<1	1

Common Name of Waste: U.S. PAINT FILTERS

E. General Characteristics

Color: GRAY/GREEN
Odor: ☐ None X Mild PAINT ☐ Strong
☐ Liquid ☐ Sludge X Solid ☐ Powder
Phases X 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 %): 80-90
BTU's per lb (list actual value): < 1000
Water (Wt %): X <1 ☐ 5-10 ☐ 1-5 if > 10 list actual
Specific Gravity: ☐ < 0.8 ☐ 1.2-1.4 X 0.8-1.0 ☐ 1.4-1.7 ☐ 1.0-1.2 ☐ > 1.7 list actual
Viscosity (for bulk liquids only) list actual in centipoise: cp
Total Suspended Solids (Wt %-for bulk liquids only): ☐ 5-20 if > 20 list actual
pH: ☐ 2-6 X 6-10 ☐ 10-12.5 if < 2 or > 12.5 list actual

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

Halogens (Wt %): <1 / 1-5 / 5-10 — if > 10 list actual Wt %

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

Metals: EP Toxicity Test (MG/L)

Arsenic (As)	< 5	Selenium (Se)	< 1
Barium (Ba)	< 100	Silver (Ag)	< 5
Cadmium (Cd)	< 1	Copper (Cu)	< 5
Chromium (Cr)	< 5	Nickel (Ni)	< 5
Lead (Pb)	< 5	Zinc (Zn)	< 10
Mercury (Hg)	< 0.2		

NS = NONE SUSPECTED

Organics (ppm)

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

If material contains the following compounds, indicate actual ppm:

PCB	NS
Cyanides	NS
Sulfides	NS
Dioxin	NS

DEC05 1901

US V. MSP Releasable
PRODUCED BY MSP 9/93
REQUEST # ____
BOX # 15 Unidentified Hazardous Waste Manifests

MSD054

1988

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H. Notes, Additional Information or Special Handling Instructions

RECERTIFICATION: ARR/ARR 8903683

Generating Process: PAINT BOOTH AIR FILTER

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" HAZARDOUS WASTE SOLID, N.O.S. DOT LQ. No. (circle one) UN/(NA) 9189

Hazard Class ORM-E RQ 100 LBS

Anticipated Volume 20 (Drums) Gal Yds Lbs ☐ Bulk? ☐ Roll?

Container Size 55-GALLON Container Type D.O.T. STEEL OPEN HEAD

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

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. Jeff C. Mays — Generator's Signature
2. JEFF C. MAYS — Name (Type or Print)
3. 6/11/90 — Date
4. ENVIRONMENTAL COORDINATOR — 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.

DEQ051902

MSP Form 1040 II Rev. 10/89

U.S. v. MSP Releasable
PRODUCED BY MSP 9/93
REQUEST #
BOX
MSD054
1989

MATERIALS CHARACTERIZATION DATA SHEET

MCDS Document #

SALES (504) 465-3810
PLANT (504) 631-3626

MSP CODE: ARR/ARR 8903643

JUL 10 1989

Generator Name: AMERICAN RESOURCE RECOVERY
Facility Address: 901 EAST BODLEY

City, State, Zip: MEMPHIS, TN. 38106
Technical Contact: JEFF MAYES
Title: ASST. PLANT MGR.
Telephone NO. (901) 774-2340 EXT:
Facility EPA ID #: IND991279480

Bill To: AMERICAN RESOURCE RECOVERY
Company Contact: PAM DANIEL
Container Size: 55 GAL DR.
EPA Waste No. F005
Generating Process: PAINT BOOTH CLEAN UP
Common Name of Waste: WASTE PAINT FILTERS
Rate of Generation: 20 (Quan) DR (Units) PER 90 DAY (Time Interval)
Volume in Storage: 20 (Quan) DR (Units) IN 55 GAL DR. (Container Size and Type)

Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name: HAZARDOUS WASTE SOLIDS, N.O.S.
Hazard Class: ORM-E ID No.: NA 9189
Transportation Equipment: BOX VAN
Placarding: NA 9189

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

FIBER GLASS PAINT FILTERS	90-95 %
PAINT & THINNER SOLIDS	2-5 %
DIRT/DUST DEBRIS	2-4 %
TOLUENE	1 %
	%
	%
	%

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)

Indrin	0	Organohalide	0
Methoxychlor	0	Mercaptans	0
Toxaphene	0		
2,4-D	0		
2,4,5-T	0		
Pyridine	0		
PCBs	0		
Dioxin	0		
TOX	0		

PHYSICAL DESCRIPTION

Physical State	[ ] Liquid	[ ] Semi-solid	[X] Solid	
Phases/Layering	[ ] Uni-Layer	[ ] Bilayer	[ ] Multilayer	
Viscosity	[ ] High	[ ] Medium	[ ] Low	
Type of Solids	[ ] Organic	[ ] Inorganic	[X] Mixed	

Total Solids (wt. %): 100 Suspended Solids (wt. %): NA
BTU/lb: <1000 % Ash Content: 90 % Water (by weight): 0
Flash Point (°F): >140 Type:
Specific Gravity: NA
Boiling Point, (°C): 0 Freezing Point, (°C): NA
Vapor Pressure: mm Hg @ 24°C: NA
pH (Avg): 7 (Range): to
Total Alkalinity/Acidity (%): 0
Odor: PAINT
Color: GRAY

HAZARDOUS PROPERTIES

[ ] Water Reactive	[ ] Reactive	[X] NONE
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Explosive
[ ] Radioactive	[ ] Pesticide Residuals	[ ] Polymriable
[ ] Corrosive	[ ] Toxic Vapor	[ ] Ignitable
[ ] Biological	[ ] Etiological	[ ] Pathogen
[ ] Other		

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES: DUST MASK / RESPIRATOR

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 ascertain, 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 7/6/89 GENERATOR'S SIGNATURE: Jeff C. Mayes

DEM051903

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US V. MSP Releasable PRODUCED BY MSP 9/93 REQUEST # ____

MSD054

1990

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MATERIALS CHARACTERIZATION DATA SHEET

SMCDS 8903683

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

ARR | ARR | 8903683
MSP CODE:

JUL 3 1989

ORIGINAL COPY

Generation Name AMERICAN RESOURCE RECOVERY
Facility Address 901 EAST BODLEY

City, State, Zip MEMPHIS, TN. 38106
Technical Contact JEFF MAYES
Title ASST. PLANT MGR.
Telephone NO. (901) 774-2340 EXT:
Facility EPA ID # TND991279480

Bill To: AMERICAN RESOURCE RECOVERY
Company Contact: PAM DANIEL
Container Size: 55 GAL DR.
EPA Waste No. F005
Generating Process PAINT BOOTH CLEAN UP.
Common Name of Waste WASTE PAINT FILTERS
Rate of Generation 20 (Quan) DR (Units) PER 90 DAYS (Time Interval)
Volume in Storage 20 (Quan) DR (Units) IN 55 GAL DR. (Container Size and Type)

Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name HAZARDOUS WASTE SOLIDS, N.O.S.
Hazard Class ORM-E ID No. NA9189
Transportation Equipment BOX VAN
Placarding NA9189

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

FIBER GLASS PAINT FILTERS	90-95 %
PAINT & THINNER SOLIDS	2-5 %
DIRT/DUST DEBRIS	2-5 %
TOLUENE	1 %
	%
	%
	%
	%

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		
Flourine	0		
Bromine	0		
Chlorine	0		

ORGANICS (mg/l or ppm)

Endrin	0	Organohalide	0
Methoxyclor	0	Mercaptans	0
Toxaphene	0		
2, 4-5	0		
2,4,5-T	0		
Phenol(ics)	0		
PCBs	0		
Dioxin	0		
TOC	0		

PHYSICAL DESCRIPTION

Physical State	[ ] Liquid	[ ] Semi-solid	[X] Solid		
Phases/Layering	[ ] Uni-Layer	[ ] Bilayer	[ ] Multilayer		
Viscosity	[ ] High	[ ] Medium	[ ] Low		
Type of Solids	[ ] Organic	[ ] Inorganic	[X] Mixed		

Total Solids (wt. %) 100 Suspended Solids (wt. %) NA
BTU/lb 1000 % Ash Content 90 % Water (by weight) 0
Flash Point (°F) > 140° Type
Specific Gravity NA
Boiling Point, (°C) 0 Freezing Point, (°C) NA
Vapor Pressure (mm Hg @ 24°C) NA
pH (Avg) 7 (Range) to
Total Alkalinity/Acidity (%) 0
Odor PAINT
Color GRAY

HAZARDOUS PROPERTIES

[ ] Water Reactive	[ ] Reactive	[X] NONE
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Explosive
[ ] Radioactive	[ ] Pesticide Residuals	[ ] Polymriable
[ ] Corrotive	[ ] Toxic Vapor	[ ] Ignitable
[ ] Biological	[ ] Etiological	[ ] Pathogen
[ ] Other		

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES: DUST MASK/ RESPIRATOR

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 6/28/89 GENERATOR'S SIGNATURE:

DEQ051904

MSD054

191

SEP 18 1989

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

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

MCDS Document # 8911991

ARR/ARR-8904941

MSP CODE: _____

Generator Name: AMERICAN RESOURCE RECOVERY CORP.
Facility Address: 901 E. BODLEY
City, State, Zip: MEMPHIS, TN 38106
Technical Contact: JEFF C. MAYS
Title: PLANT MANAGER
Telephone NO.: 901 774-2340 EXT: _____
Facility EPA ID #: TND 981279480

Bill To: AMERICAN RESOURCE RECOVERY CORP.
Address: 901 E. BODLEY
City, State, Zip: MEMPHIS, TN 38106
Telephone #: 901-774-2340
Company Contact: SCOTT DOWDY
Container Size: 55-GALLON
EPA Waste No.: D001
Generating Process: SECONDARY FUELS BLENDING
Common Name of Waste: MMA CLEAN-UP
Rate of Generation: 50-80 DR PER ONCE
(Volume) (Units) (Time Interval)
Volume in Storage: 50-80 DR IN 55-GAL DT
(Volume) (Units) (Container Size and Type)

Is Waste DOT Hazardous: |X| YES | | NO
Proper DOT Shipping Name: HAZARDOUS WASTE SOLID N.O.S.
Hazard Class: ORM-E ID No.: NA9189
Transportation Equipment: DTK VAN
Placarding: NONE

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

METHYL METHACRYLATE	10-20 %
SOIL	80-90 %
	%
	%
	%
	%
	%

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	<1.0	Silver (Ag)	<1.0
Barium (Ba)	<100	Copper (Cu)	<10
Cadmium (Cd)	<1.0	Nickel (Ni)	<10
Chromium (Cr)	<5.0	Zinc (Zn)	<10
Lead (Pb)	<5.0		
Mercury (Hg)	<0.2		
Selenium (Se)	<0.1		

INORGANICS (mg/l or ppm)

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

ORGANICS (mg/l or ppm)

Endrin	NS	Organohalide	NS
Methoxychlor	NS	Mercaptans	NS
Toxaphene	NS		
2, 4-D	NS		
2,4,5-T	NS		
Phenolics	NS		
PCBs	NS		
Dioxin	NS		
TOC	20K-70K		

NS: NONE SUSPECTED

PHYSICAL DESCRIPTION

Physical State	| | Liquid	| | Semi-solid	|X| Solid	
Phases/Layering	|X| Uni-Layer	| | Bilayer	| | Multilayer	
Viscosity	|X| High	| | Medium	| | Low	
Type of Solids	| | Organic	| | Inorganic	|X| Mixed	

Total Solids (wt. %): 70-80 Suspended Solids (wt. %): NS
BTU/lb: 5K-15K % Ash Content: 65-70% Water (by weight): 25
Flash Point (°F): <140 Type: PMCC
Specific Gravity: 1.1
Boiling Point, (°C): >100 Freezing Point, (°C): <0
Vapor Pressure (mm Hg @ 24°C): NS
pH (Avg): SOLID (Range): _____ to _____
Total Alkalinity/Acidity (%): NS
Odor: MMA; FRUITY
Color: BROWN

HAZARDOUS PROPERTIES

| | Water Reactive	| | Reactive	| | NONE	
| | Shock Sensitive	| | Pyrophoric	| | Explosive	
| | Radioactive	| | Pesticide Residuals	|X| Ignitable	
| | Corrosive	| | Toxic Vapor	| | Polymerizable	
| | Biological	| | Etiological	| | Pathogen	

\| \| 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.

DEQ051905

DATE 9/14/89 GENERATOR'S SIGNATURE Jeff C Mays

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

MSD054

1992

RECERTIFICATION OF MATERIAL CHARACTERIZATION DATA SHEET

MSP Approval Code: ARR /ARR /B9037177/ /

Date printed: 6/05/90 Rep.ID: ERQ

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: AMERICAN RESOURCE RECOVERY COR
Telephone: (901) 774-2340 x.0000
Facility Address: 901 EAST BODLEY (38106)
USEPA ID: TND991279480
P.O. BOX 1533
MEMPHIS, TN 38101-0000

Name of Waste: PAIT SOLIDS
Generating Process: FUEL BLENDING
Technical Contact: MR. JEFF MAYS
Title: ENVIRONMENTAL COORDINATOR

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) D.O.T. STEEL/55-GALLON

Anticipated Volume: _____ Gals. _____ Cubic Yds. _____ Other 20 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: JEFF C. MAYS
Signature: Jeff C. Mays
Title: ENVIRONMENTAL COORDINATOR
Date: 6/12/90

MSP Form 1040-R (November 89)

DEQ051906

MSD054

1993

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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_____

A. Generator Information

Generator Name AMERICAN RESOURCE RECOVERY CORP.
Site Address 901 E. BODLEY
City MEMPHIS State TN Zip Code 38106
Generator Contact JEFF MAYS
Title ENVIRONMENTAL COORDINATOR
Telephone No. (901) 774-2050
Facility EPA I.D. No. TND 991 279 480

B. Customer Information

Company Name ARRC
Contact DON OR SCOTT DOWDY
Address P.O. BOX 1533
MEMPHIS, TN 38106
Telephone No. (901) 774-2340
For Customer Use

C. Regulatory Information

[X] RCRA Regulated [X] Land Ban [ ] Non-Regulated EPA Waste Code(s) F002

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 SOLIDS & PIGMENTS	80	90
PAPER, PLASTIC, & FABRIC	5	10
RESINS	0	5
OILS (NON-PCB TYPE)	0	5
METAL SCRAP ~1/4 S.A.	0	5
METHYLENE CHLORIDE, 1,1,1 - TRICHLOROETHANE	1	5

Common Name of Waste:

E. General Characteristics

Color: VARIED
Odor: [ ] None [X] Mild MeCl [ ] Strong
[ ] Liquid [ ] Sludge [X] Solid [ ] Powder
Phases [X] 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 %): 60-70
BTU's per lb (list actual value): 6-8K
Water (Wt %): [X] <1 [ ] 1-5 [ ] 5-10 [ ] if > 10 list actual _____
Specific Gravity: [ ] <0.8 [ ] 0.8-1.0 [X] 1.0-1.2 [ ] 1.2-1.4 [ ] 1.4-1.7 [ ] > 1.7 list actual _____
Viscosity (for bulk liquids only) list actual in centipoise _____ cp
Total Suspended Solids (Wt %-for bulk liquids only): [ ] 5-20 [ ] if > 20 list actual _____
pH: [ ] 2-6 [X] 6-10 [ ] 10-12.5 [ ] if < 2 or > 12.5 list actual _____

Flash Point (closed cup): [ ] < 100°F [X] > 200°F [ ] _____°F actual
Sulfur (Wt %): [X] < 5 [ ] if > 5 list actual value _____
Halogens (Wt %): [ ] Iodine [X] Bromine [ ] Chlorine [ ] Fluorine

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

Metals: EP Toxicity Test (MG/L)

Arsenic (As)	<5	Selenium (Se)	<1
Barium (Ba)	<100	Silver (Ag)	<5
Cadmium (Cd)	<1	Copper (Cu)	<5
Chromium (Cr)	<5	Nickel (Ni)	<5
Lead (Pb)	<5	Zinc (Zn)	<10
Mercury (Hg)	<.2		

Organics (ppm)

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

If material contains the following compounds, indicate actual ppm:

PCB	NS
Cyanides	NS
Sulfides	NS
Dioxin	NS

NS = NONE SUSPECTED

DEQ051907

US V. MSP Releasable
PRODUCED BY MSP 9/93
REQUEST #_____
BOX #_____
Uniform Index Number
MSD054
1994

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H. Notes, Additional Information or Special Handling Instructions

COMPONENTS DO NOT CONTAIN TOXIC HEAVY METALS

Generating Process: FUEL BLENDING

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" HAZARDOUS WASTE SOLID, N.O.S. DOT I.D. No. (circle one) UN/NA 9189

Hazard Class ORM-E RQ 100 LBS.

Anticipated Volume 20 (Drums) Gal Yds Lbs ☐ Bulk? ☐ Rail?

Container Size 55-GALLON Container Type D.O.T. STEEL OH

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

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. Jeff C. Mays — Generator's Signature

2. JEFF C. MAYS — Name (Type or Print)

3. 6/12/90 — Date

4. ENVIRONMENTAL COORDINATOR — 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.

DEQ051908

MSP Form 1040 II Rev. 10/89

US V. MSP — PRODUCED BY MSP 9/93 — Releasable

REQUEST [illegible] waste container

MSD054

1995

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

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

MCDS Document # 8903717

ARR | ARR | 8903717
MSP CODE: _____

Generator Name: AMERICAN RESOURCE RECOVERY CORP.
Facility Address: 901 E. BODLEY
City, State, Zip: MEMPHIS, TN 38106
Technical Contact: JEFF C. MAYS
Title: PLANT MANAGER
Telephone NO.: 901 774-2340 EXT: _____
Facility EPA ID #: TND 981279480

Bill To: AMERICAN RESOURCE RECOVERY CORP.
Address: 901 E. BODLEY
City, State, Zip: MEMPHIS, TN 38106
Telephone #: 901-774-2340
Company Contact: SCOTT DOWDY
Container Size: 55-GALLON DRUMS
EPA Waste No.: F002
Generating Process: SECONDARY FUELS BLENDING
Common Name of Waste: PAINT SOLIDS
Rate of Generation: 90 (Quan.) DR (Units) PER BI-MONTHLY (Time interval)
Volume in Storage: 80 (Quan.) DR (Units) IN 55-GAL. DOT (Container Size and Type)

Is Waste DOT Hazardous | X | YES | | NO
Proper DOT Shipping Name: HAZARDOUS WASTE SOLID N.O.S.
Hazard Class: ORM-E ID No.: NA9189
Transportation Equipment: CITC VAN
Placarding: ORM-E

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

PAINT SOLIDS / PIGMENTS	80-90 %
RESINS	0-5 %
OILS (NON-PCB TYPES)	0-5 %
PAPER, PLASTIC, & FABRIC	5-10 %
METAL SCRAP 7/14 GRADE	0-2 %
METHYLENE CHLORIDE	1-2 %
1,1,1 TRICHLOROETHANE	1-2 %

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	<1.0	Silver (Ag)	<1.0
Barium (Ba)	<100	Copper (Cu)	<10
Cadmium (Cd)	<1.0	Nickel (Ni)	<10
Chromium (Cr)	<5.0	Zinc (Zn)	<10
Lead (Pb)	<5.0		
Mercury (Hg)	<0.2		
Selenium (Se)	<0.1		

INORGANICS (mg/l or ppm)

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

ORGANICS (mg/l or ppm)

Endrin	NS	Organohalide	10K-15K
Methoxychlor	NS	Mercaptans	NS
Toxaphene	NS		
2,4-D	NS		
2,4,5-T	NS		
Phenolics	NS		
PCBs	NS		
Dioxin	NS		
TOC	10K-15K		

DE8051909

PHYSICAL DESCRIPTION

Physical State	| |	Liquid	| |	Semi-solid	| X |	Solid
Phases/Layering	| |	Uni-Layer	| |	Bilayer	| X |	Multilayer
Viscosity	| X |	High	| |	Medium	| |	Low
Type of Solids	| |	Organic	| |	Inorganic	| X |	Mixed

Total Solids (wt. %): 90-90 Suspended Solids (wt. %): 0
BTU/lb: 5K-7K % Ash Content: 60-65 % Water (by weight): 0-2
Flash Point (°F): 7140 Type: PMCC
Specific Gravity: 1.2
Boiling Point. (°C): >100 Freezing Point. (°C): <0
Vapor Pressure (mm Hg @ 24°C): NS
pH (Avg): ORGANIC NEUT. (Range) _____ to _____
Total Alkalinity/Acidity (%): NS
Odor: CHLORINATED SOLVENT
Color: VARIED

HAZARDOUS PROPERTIES

						| |	NONE
| |	Water Reactive	| |	Reactive	| |	Explosive
| |	Shock Sensitive	| |	Pyrophoric	| |	Polymerizable
| |	Radioactive	| |	Pesticide Residuals	| |	Ignitable
| |	Corrosive	| X |	Toxic Vapor	| |	Pathogen
| |	Biological	| |	Etiological		
| X |	Other: RESIDUAL LAND BAN SOLVENTS				

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.

NS = NONE SUSPECTED

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 7/3/89 GENERATOR SIGNATURE Jeff C. Mays

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

US V. MSP PRODUCED BY MSP 9/93 Releasable

MSD054

1989

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

RECEIVED MAY 3 1990

RECERTIFICATION OF MATERIAL CHARACTERIZATION DATA SHEET

MSP Approval Code: ARR /ARR /08903498/ /

Date printed: 5/22/90 Rep.ID: ERG

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: AMERICAN RESOURCE RECOVERY COR
Telephone: (901) 774-2340 x.0000
Facility Address: 901 EAST BODLEY (38106)
USEPA ID: TND991279480
P.O. BOX 1533
MEMPHIS, TN 38101-0000

Name of Waste: PAINT SOLIDS WITH DEBRIS
Generating Process: SECONDARY FUELS BLENDING
Technical Contact: MR. JEFF MAYS
Title: ENVIRONMENTAL PROGRAMS COORDINATOR

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) D.O.T. OPEN HEAD / 55. GALLON

Anticipated Volume: 80 Gals. _____ Cubic Yds. _____ Other 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: JEFF MAYS Signature: Jeff Mays

Title: ENVIRONMENTAL PROGRAMS COORDINATOR Date: 5/28/90

MSP Form 1040-R (November 89)

DEQ051910

U.S.V. MSP Releasable
PRODUCED BY MSP 9/93
REQUEST # _____
BOX # _____
Unfilmable attachments have been removed
MSD054
1997

8903498

JUN 22 1989

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

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

MCDS Document # _____

MSP CODE: 8903498

Generator Name: AMERICAN RESOURCE RECOVERY CORP.
Facility Address: 901 EAST BODLEY
City, State, Zip: MEMPHIS, TENNESSEE 38101
Technical Contact: JEFF C. MAYS
Title: PLANT MANAGER
Telephone NO.: 901, 774-2050 EXT: ____
Facility EPA ID #: TND 991 279 480

Bill To: AMERICAN RESOURCE RECOVERY CORP.
Address: 901 EAST BODLEY
City, State, Zip: MEMPHIS, TENNESSEE
Telephone #: 901-774-2050
Company Contact: JEFF C MAYS
Container Size: 55-GALLON
EPA Waste No. F003, F005
Generating Process: SECONDARY FUELS BLENDING
Common Name of Waste: PAINT SOLIDS WITH DEBRIS
Rate of Generation: 80. (Quant.) DR (Units) PER BI-MONTHLY (Time Interval)
Volume in Storage: 80 (Quant.) DR (Units) IN 55-GALLON DT DOT (Container Size and Type)

Is Waste DOT Hazardous |X| YES | | NO
Proper DOT Shipping Name: HAZARDOUS WASTE SOLID N.O.S.
Hazard Class: ORM-E ID No.: NA 9189
Transportation Equipment: OTR VAN
Placarding: ORM-E

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

PAINT SOLIDS & PIGMENTS	80-90 %
METAL WIRE & SCRAP (>14GA)	3-5 %
PAPER TRASH	1-8 %
MOISTURE	0-2 %
WOOD SCRAP (4"x2"x2")	0-2 %
SOIL	0-2 %
ACETONE, TOLUENE, XYLENES	<1 %

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	<1.0	Silver (Ag)	<1.0
Barium (Ba)	<100	Copper (Cu)	<10
Cadmium (Cd)	<1.0	Nickel (Ni)	<10
Chromium (Cr)	<5.0	Zinc (Zn)	10-15
Lead (Pb)	<5.0		
Mercury (Hg)	<0.2		
Selenium (Se)	<0.1		

INORGANICS (mg/l or ppm)

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

ORGANICS (mg/l or ppm)

Endrin	NS	Organohalide	NS
Methoxychlor	NS	Mercaptans	NS
Toxaphene	NS		
2,4-D	NS		
2,4,5-T	NS		
Phenolics	NS		
PCBs	NS		
Dioxin	NS		
TOC	10K-15K		

NS = None Suspected

DEMO5191.1

PHYSICAL DESCRIPTION

Physical State: | | Liquid | | | Semi-solid | |X| Solid
Phases/Layering: |X| Uni-Layer | | Bilayer | | Multilayer
Viscosity: |X| High | | Medium | | Low
Type of Solids: | | Organic | | Inorganic | |X| Mixed
Total Solids (wt. %): 90 Suspended Solids (wt. %): 0
BTU/lb 5K-7.5K % Ash Content: 60-65 % Water (by weight): 0-2
Flash Point (°F): >140° F Type: PMCC
Specific Gravity: 1.2
Boiling Point. (°C): >100 Freezing Point. (°C): <0
Vapor Pressure (mm Hg @ 24°C): None Suspected
pH (Avg): 6.5 (Aq) (Range): 10.0 to 7.0
Total Alkalinity/Acidity (%): none suspected
Odor: MUSTY
Color: GRAY TO BROWN TO BLACK

HAZARDOUS PROPERTIES

				NONE
	Water Reactive		Reactive		Explosive
	Shock Sensitive		Pyrophoric		Polymerizable
	Radioactive		Pesticide Residuals		Ignitable
	Corrosive		Toxic Vapor		Pathogen
	Biological		Etiological		
|X| Other: RESIDUAL LAND BAN SOLVENTS				

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 6/19/89 GENERATOR'S SIGNATURE: Jeff C. Mays

MSP FORM 1988 REV. 05/89

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

US V. MSP Releasable PRODUCED BY MSP 9/93 REQUEST # _____ BOX # 5 MSDS# 1988 Unknown Area Glass Water Matter

MSD054

1988

8903498

JUN 22 1989

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

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

ARR ARR 8903498

MSP CODE: _____

MCDS Document # _____

Generator Name: AMERICAN RESOURCE RECOVERY CORP.
Facility Address: 901 EAST BODLEY
City, State, Zip: MEMPHIS, TENNESSEE 38101
Technical Contact: JEFF C. MAYS
Title: PLANT MANAGER
Telephone NO.: 901, 774-2050 EXT: _____
Facility EPA ID #: TND 991 279 480

Bill To: AMERICAN RESOURCE RECOVERY CORP.
Address: 901 EAST BODLEY
City, State, Zip: MEMPHIS, TENNESSEE
Telephone #: 901-774-2050
Company Contact: JEFF C MAYS
Container Size: 55-GALLON
EPA Waste No. F003, F005
Generating Process: SECONDARY FUELS BLENDING
Common Name of Waste: PAINT SOLIDS WITH DEBRIS
Rate of Generation: 80 (Quant.) DR (Units) PER BI-MONTHLY (Time Interval)
Volume in Storage: 80 (Quant.) DR (Units) IN 55-GALLON OT DOT (Container Type and Type)

Is Waste DOT Hazardous | X | YES | | NO
Proper DOT Shipping Name: HAZARDOUS WASTE SOLID N.O.S.
Hazard Class: ORM-E ID No.: NA 9189
Transportation Equipment: OTR VAN
Placarding: ORM-E

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

PAINT SOLIDS & PIGMENTS	80-90 %
METAL WIRE & SCRAP (>14GA)	3-5 %
PAPER TRASH	1-3 %
MOISTURE	0-2 %
WOOD SCRAP (<2" X 2" X 2")	0-2 %
SOIL	0-2 %
ACETONE, TOLUENE, XYLENES	<1 %

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	<1.0	Silver (Ag)	<1.0
Barium (Ba)	<100	Copper (Cu)	<10
Cadmium (Cd)	<1.0	Nickel (Ni)	<10
Chromium (Cr)	<5.0	Zinc (Zn)	10-15
Lead (Pb)	<5.0		
Mercury (Hg)	<0.2		
Selenium (Se)	<0.1		

INORGANICS (mg/l or ppm)

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

ORGANICS (mg/l or ppm)

Endrin	NS	Organohalide	NS
Methoxychlor	NS	Mercaptans	NS
Toxaphene	NS		
2,4-D	NS		
2,4,5-T	NS		
Phenolics	NS		
PCBs	NS		
Dioxin	NS		
TOC	10K-15K		

NS = None Suspected

DEC051612

PHYSICAL DESCRIPTION

Physical State		Liquid		Semi-solid	X	Solid	
Phases/Layering	X	Uni-Layer		Bilayer		Multilayer	
Viscosity	X	High		Medium		Low	
Type of Solids		Organic		Inorganic	X	Mixed	

Total Solids (wt. %): 90 Suspended Solids (wt. %): 0
BTU/lb 5K-7.5K % Ash Content 50-65 % Water (by weight) 0-2
Flash Point (°F) >140° F Type PMCC
Specific Gravity 1.2
Boiling Point, (°C) >100 Freezing Point, (°C) <0
Vapor Pressure (mm Hg @ 24°C) none suspected
pH (Avg) 6.5 (ag) (Range) 6.0 to 7.0
Total Alkalinity/Acidity (%) none suspected
Odor MUSTY
Color GRAY TO BROWN TO BLACK

HAZARDOUS PROPERTIES

	Water Reactive		Reactive		Explosive		NONE
	Shock Sensitive		Pyrophoric		Polymerizable		
	Radioactive		Pesticide Residuals		Ignitable		
	Corrosive		Toxic Vapor		Pathogen		
	Biological		Etiological				
X	Other: RESIDUAL LAND BAN SOLVENTS						

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 6/19/89 GENERATOR'S SIGNATURE: Jeff C. Mays

MSP FORM 1000 (REV. 07/87)

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

US V. MSP PRODUCED BY MSP 5/93 Releasable

MSD054

1991

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

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

RECYCLE / REUSE

MANIFEST Nº 015075

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. LAD079464095 — Manifest Document No. 1 1 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

A. State Manifest Document Number 015075
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone 318-783-2624
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone (504) 631-3161

5. Transporter 1 Company Name: GSX RECOVERY SYSTEMS INC. — 6. US EPA ID Number: LAD079464095
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: LAD981057706

GENERATOR

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 Flammable Liquid, N.O.S. Flammable Liquid UN1993 RQ,(D001,F001,F002,F003,F005,K085,) (HEXANE,MEK)	001	TT	5500	G	D001,F001 F002 R F003,F005
b.					R
c.					R
d.					R

J. Additional Descriptions for Materials Listed Above
I. Additional Waste Code: K085
A. MSP-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 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: Robert W. Hicks — Signature — Month Day Year: 11-12-90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Connie Hoffpauir — Signature: Connie Hoffpauir — Month Day Year: 11 12 90
18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space
DEQ051913

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 — Month Day Year: 11-13-90

EPA Form 8700-22 (Rev. 9-88) WHITE – DEQ GREEN – Generator YELLOW – TSDRF BLUE – Transporter 2 PINK – Transporter 1 GOLD – Generator

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US v. MSP PRODUCED BY MSP 9/93 Releasable

MSD054

2000 F

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

RECYCLE / REUSE ✓

MANIFEST Nº 015055

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. LAD079466095 Manifest Document No. 015055

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 015055
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone 318-783-2624
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone (504) 631-3161

5. Transporter 1 Company Name: GSX RECOVERY SYSTEMS INC.
6. US EPA ID Number: LAD079466095
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: LAD981057706

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	Waste No.
a. Waste Flammable Liquid, N.O.S. Flammable Liquid UN1993 RQ,(D001,F001,F002,F003,F005,K085,) (HEXANE,MEK)	001	TT	5APP	G	D001,F001 F002 R F003,F005
b.					R
c.					R
d.					R

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
1. Additional Waste Code: K085 ✓
2. MSP-HSCO-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 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: TROY Schexnaider ✓ Signature: [signature] ✓ Month 06 Day 13 Year 91

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Keith P. Henderson ✓ Signature: [signature] Month 06 Day 13 Year 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: Signature: Month Day Year

FACILITY

19. Discrepancy Indication Space
DEQ051914

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 06 Day 25 Year 91

LEA Form 8700-22 (Rev. 9/88) WHITE – DEQ GREEN – Generator YELLOW – TSDFR BLUE – Transporter 2 PINK – Transporter 1 GOLD – Generator

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US V. MSP PRODUCED BY MSP 9/93 Releasable

BOX 5 Unfiled Hazardous Waste Manifests REQUEST Hazardous Waste Manifest

MSD054

2001

8904681

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

P.O. BOX 1690, KENNER, LA 70063 HSCO HSCO 8904681
SALES (504) 465-3310. MSP CODE

AICOS Document #

AUG 23 1989

Generator Name GSX Recovery Systems Inc
Facility Address LA 1115
City, State, Zip Crowley, LA 70526
Technical Contact Lenny Dupuis
Title Operations Mgr
Telephone No. (318) 783-2821 EXT:
Facility EPA ID # LAD079464815

Bill To: SAME
Address:
City, State, Zip:
Telephone #:
Company Contact:
Container Size: Bulk
EPA Waste No. D001 F001, F002, F003, F005 K085
Generating Process Recovery of Hydrocarbons
Common Name of Waste Organic Emulsion + Chlorinated Of Benzene Bottoms
Rate of Generation ____ PER ____
Volume in Storage ____ IN ____

Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name Flammable Liquid NOS.
Hazard Class F.L. ID No. NA1993
Transportation Equipment
Placarding

CHEMICAL COMPOSITION (No Trade Names)

(Totals must add up to 100%)

Mixed Hydrocarbons	25-35 %
Organic Resins	15-25 %
Asphalt / Pitch	10-25 %
Silica / Alumina	0-10 %
Water	0-10 %
Solids (Dirt, Resins)	10-15 %
Chlorination of Benzene Bottoms	10-15 %

METALS (EP Toxicity Test, mg/l)

N.S. None Suspected

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

INORGANICS (mg/l or ppm)

Total CN	N.S.	Iodine	N.S.
Free CN	N.S.	Asbestos	N.S.
Sulfide	N.S.		
Chloride	N.S.		
Bisulfite	N.S.		
Sulfite	N.S.		
Sulfate	N.S.		
Phosphate	N.S.		
Fluorine	N.S.		
Bromine	N.S.		
Chlorine	N.S.		

ORGANICS (mg/l or ppm)

Endrin	N.S.	Organohalide	N.S.
Methoxychlor	N.S.	Mercaptans	N.S.
Toxaphene	N.S.		
2, 4-D	N.S.		
2,4,5-T	N.S.		
Phenolics	N.S.		
PCBs	N.S.		
Dioxin	N.S.		
TOC	10%		

PHYSICAL DESCRIPTION

Physical State	[X] Liquid	[X] Semi-solid	[ ] Solid		
Phases/Layering	[ ] Uni-Layer	[ ] Bilayer	[X] Multilayer		
Viscosity	[ ] High	[X] Medium	[ ] Low		
Type of Solids	[X] Organic	[X] Inorganic	[ ] Mixed		

Total Solids (wt. %) 20-30 Suspended Solids (wt. %) 10-15
BTU/lb 4000 % Ash Content 5-10 % Water (by weight) 0-10
Flash Point (°F) < 100 Type
Specific Gravity 0.9 - 1.0
Boiling Point, (°C) — Freezing Point, (°C) —
Vapor Pressure (mm Hg @ 24°C) —
pH (Avg) Organic (Range) Neutral to
Total Alkalinity/Acidity (%)
Odor Slight
Color Black

HAZARDOUS PROPERTIES

[ ] Water Reactive	[ ] Reactive	[ ] Explosive	[ ] NONE
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Polymerizable	
[ ] Radioactive	[ ] Pesticide Residuals	[X] 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 8/23/89 GENERATOR'S SIGNATURE:

DE0051915

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US V. MSP Released PRODUCED BY MSP 9/93 REQUEST

MSD054

2002

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8904681

MCDS Document #

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

P.O. BOX 1698, KENNER, LA 70063 HSCO HSCO 8904681
SALES (504) 465-3310 MSP CODE

AUG 23 1989

Generator Name GSX Recovery Systems Inc
Facility Address LA 113
City, State, Zip Crowley, LA 70526
Technical Contact Lenny Dupuis
Title Operations Mgr
Telephone (#) (318) 783-2624 EXT:
Facility EPA ID # LAD079464015

Bill To: SAME
Address:
City, State, Zip:
Telephone #:
Company Contact:
Container Size: BULK
EPA Waste No. D001, F001, F002, F003, F005, K085
Generating Process Recovery of Hydrocarbons
Common Name of Waste Organic Emulsion Chlorinated Of Benzene Bottoms
Rate of Generation _____ PER _____
Volume in Storage _____ IN _____

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Mixed Hydrocarbons	25-35 %
Organic Resins	15-25 %
Asphalt / Pitch	15-25 %
Silica / Fluorine	0-10 %
Water	0-10 %
Solids (Dirt, Resins)	10-15 %
Chlorination of Benzene Bottoms	10-15 %

Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name Flammable Liquid N.O.S.
Hazard Class F.L. ID No. UN 1993
Transportation Equipment
Placarding

METALS (EP Toxicity Test, mg/l)

N.S. - None Suspected

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

INORGANICS (mg/l or ppm)

Total CN	N.S.	Iodine	N.S.
Free CN	N.S.	Asbestos	N.S.
Sulfide	N.S.		
Chloride	N.S.		
Bisulfite	N.S.		
Sulfite	N.S.		
Sulfate	N.S.		
Phosphate	N.S.		
Fluorine	N.S.		
Bromine	N.S.		
Chlorine	N.S.		

ORGANICS (mg/l or ppm)

Endrin	N.S.	Organohalide	N.S.
Methoxychlor	N.S.	Mercaptans	N.S.
Toxaphene	N.S.		
2, 4-D	N.S.		
2,4,5-T	N.S.		
Phenolics	N.S.		
PCBs	N.S.		
Dioxin	N.S.		
TOC	10%		

PHYSICAL DESCRIPTION

Physical State	[X] Liquid	[X] Semi-solid	[ ] Solid
Phases/Layering	[ ] Uni-Layer	[ ] Bilayer	[X] Multilayer
Viscosity	[ ] High	[X] Medium	[ ] Low
Type of Solids	[X] Organic	[X] Inorganic	[ ] Mixed

Total Solids (wt. %) 20-30 Suspended Solids (wt. %) 10-15
BTU/lb 11,000 % Ash Content 5-10 % Water (by weight) 0-10
Flash Point (°F) ≤ 100 Type
Specific Gravity 0.9 – 1.0
Boiling Point, (°C) — Freezing Point, (°C) —
Vapor Pressure (mm Hg @ 24°C) —
pH (Avg) Organic (Range) Neutral to
Total Alkalinity/Acidity (%)
Odor Slight
Color Black

HAZARDOUS PROPERTIES

[ ] Water Reactive	[ ] Reactive	[ ] NONE	
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Explosive	
[ ] Radioactive	[ ] Pesticide Residuals	[X] Ignitable	
[ ] Corrosive	[ ] Toxic Vapor	[ ] Polymerizable	
[ ] Biological	[ ] Etiological	[ ] Pathogen	
[ ] 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 8/23/89 GENERATOR'S SIGNATURE: Donald Dupuis

DEMOS1.PL6

US V. MSP Releasable
PRODUCED BY MSP 9/93
REQUEST #
BOX
Unofficial Document
MSD054
2003

8904681
MCDS Document #

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

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

HSCO | HSCO | 8904681
MSP CODE

AUG 28 1989

Generator Name GSX Recovery Systems INC
Facility Address LA 1112
City, State, Zip Crowley LA 70526
Technical Contact Lenny Dupuis
Title Operations Mgr
Telephone No. (318) 783-2624 EXT:
Facility EPA ID # LAD079464015

Bill To: SAME
Address:
City, State, Zip:
Telephone #:
Company Contact:
Container Size: BULK
EPA Waste No. D001, D001, F002, F003, F005, K085
Generating Process Recovery of Hydrocarbons
Common Name of Waste Organic Emulsion Chlorinated Of Benzene Bottoms
Rate of Generation _____ _____ PER _____
(#/Batch) (Units) (Time Intervals)
Volume in Storage _____ IN _____
(#/Quantity) (#/Units) (#/Container Size and Type)

Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name Flammable Liquid NOS.
Hazard Class F.L. ID No. UN1993
Transportation Equipment
Placarding

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Mixed Hydrocarbons	25-35 %
Organic Resins	15-25 %
Asphalt / Pitch	15-25 %
Silica / Alumina	0-10 %
Water	0-10 %
Solids (Dirt, Resins)	10-15 %
Chlorination of Benzene Bottoms	10-15 %

METALS (EP Toxicity Test, mg/l)

N.S. = None Suspected

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

INORGANICS (mg/l or ppm)

Total CN	N.S.	Iodine	N.S.
Free CN	N.S.	Asbestos	N.S.
Sulfide	N.S.		
Chloride	N.S.		
Bisulfite	N.S.		
Sulfite	N.S.		
Sulfate	N.S.		
Phosphate	N.S.		
Fluorine	N.S.		
Bromine	N.S.		
Chlorine	N.S.		

ORGANICS (mg/l or ppm)

Endrin	N.S.	Organohalide	N.S.
Methoxychlor	N.S.	Mercaptans	N.S.
Toxaphene	N.S.		
2, 4-D	N.S.		
2,4,5-T	N.S.		
Phenolics	N.S.		
PCBs	N.S.		
Dioxin	N.S.		
TOC	10%		

PHYSICAL DESCRIPTION

Physical State	[X] Liquid	[X] Semi-solid	[ ] Solid		
Phases/Layering	[ ] Uni-Layer	[ ] Bilayer	[X] Multilayer		
Viscosity	[ ] High	[X] Medium	[ ] Low		
Type of Solids	[X] Organic	[X] Inorganic	[ ] Mixed		

Total Solids (wt. %) 20-30 Suspended Solids (wt. %) 10-15
BTU/lb 11000 % Ash Content 5-10 % Water (by weight) 0-10
Flash Point (°F) < 100 Type
Specific Gravity 0.9 – 1.0
Boiling Point, (°C) — Freezing Point, (°C) —
Vapor Pressure (mm Hg @ 24°C)
pH (Avg) Organic (Range) Neutral to
Total Alkalinity/Acidity (%)
Odor Slight
Color Black

HAZARDOUS PROPERTIES

[ ] Water Reactive	[ ] Reactive	[ ] NONE	
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Explosive	
[ ] Radioactive	[ ] Pesticide Residuals	[X] 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 8/23/89 GENERATOR'S SIGNATURE:

DEQ051917

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US V. MSP PRODUCED BY MSP 9/93 Releasable
REQUEST # _____
BOX # 5 Waste Analysis Worksheets MSDS

MSD054

2094

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

RECYCLE / REUSE

MANIFEST Nº 015942

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 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Reynold, Inc.
BILLING: CHEMAWAY TRANSPORT 1313 Valwood Pkwy. #370
P.O. BOX [illegible] CARROLLTON, TEXAS 75006
Attn: Dave Sampsell

4. Generator's Phone ( ) [illegible]

A. State Manifest Document Number

B. State Generator's ID 33800

5. Transporter 1 Company Name
Chemaway Transport Inc

6. US EPA ID Number

C. State Transporter's ID 40605

D. Transporter's Phone (214)932-7462

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
LAD981057706

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	I. Waste No.
a. NON REGULATED MATERIAL SAFETY EQUIPMENT & DISPOSABLE PARTS	02		800	P	NRM R
b.					R
c.					R
d.					R

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
CHMY/LEY/9001627/55 GAL SAFETY EQUIPMENT & DISPOSABLE PARTS

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
IN CASE OF SPILL, DIKE AND CONTAIN. NOTIFY GENERATOR
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 C Sampsell | Signature | Month Day Year: 12 12 91

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Todd Fowler | Signature | Month Day Year: 12 12 91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space
DEQ051918

20. 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

EPA Form 8700-22 (Rev. 9-88) WHITE – DEQ GREEN – Generator YELLOW – TSDF BLUE – Transporter 2 PINK – Transporter 1 GOLD – Generator

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US v. MSP PRODUCED BY MSP 9/03 Releasable

MSD054

2005

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MATERIALS CHARACTERIZATION DATA SHEET

MAR 27 1990

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

9001627

For MSP Use Only

Approval Code CHWY/LEY/9001627

A. Generator Information

Generator Name: Leybold, Inc.
Site Address: 1313 Valwood Parkway
City: Dallas State: TX Zip Code: 75006
Generator Contact: David Sampsell
Title: Regional Service Manager
Telephone No.: (214) 247-1811
Facility EPA I.D. No.: TXD980810121

B. Customer Information

Company Name: Chemaway Transport, Inc.
Contact: Marianne Boyd
Address: P.O. Box 877
Kaufman, TX 75142
Telephone No.: (214) 932-7482
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
Miscellaneous		15.1%	
Waste Oil	4.1%		
Water	16.3%		
Large Metal Filter	29.8%		
Neoprene Rubber	13.6%		
Metal Particles	21.1%		
Latex Rubber	10.6%		

Common Name of Waste: Safety Equipment & Disposable Parts

E. General Characteristics

Color: Multi

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 %): <10

BTU's per lb (list actual value): > 11,000

Water (Wt %): ☐ <1 ☐ 1-5 ☐ 5-10 ☒ if > 10 — list actual: 16.3%

Specific Gravity: ☐ < 0.8 ☐ 0.8-1.0 ☐ 1.0-1.2 ☒ > 1.2 ☐ 1.2-1.4 ☐ 1.4-1.7 — list actual: 2.31g/cc

Viscosity (for bulk liquids only) list actual in centipoise: 0 cp

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

pH: ☐ 2-6 ☒ 6-10 ☐ 10-12.5 ☐ if < 2 or > 12.5 — list actual: 6.9%

Flash Point (closed cup): ☐ < 100°F ☐ 100-140°F ☐ 140°-200°F ☒ > 200°F — 194 °F actual

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	N/A actual			Wt %

Metals: EP Toxicity Test (MG/L) N/A

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

Organics (ppm) N/A

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

US V. MSP PRODUCED BY MSP 9/93 Releasable
REQUEST
Box 5 Waste Water
MSD054
DEC0519.19
2006

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H. Notes, Additional Information or Special Handling Instructions?

Lab Number 15817

Generating Process: Vacuum Pump Repair

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.

tyvek suits, hard hats, goggles, gloves, boots, respirators

J. Shipping Information

DOT Hazardous Material Y (N)

Proper Shipping Name Non Regulated

DOT I.D. No. (circle one) UN/NA

Hazard Class

RQ

Anticipated Volume 16 (Drums) Gal Yds Lbs ☐ Bulk ☐ Roll

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. David C Sampsell — Generator's Signature

2. David C Sampsell — Name (Type or Print)

3. March 14, 1990 — Date

4. Regional Svc. Mgr. — 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.

DE0051920

MSP Form 1040 II Rev. 10/89

US v. MSP Releasable
PRODUCED BY MSP 9/93
REQUEST
BOX
MSD054
2001

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

SPECTRUM LABORATORIES

Laboratory Testing • Materials Analyses
Consulting Chemists • Failure Investigations

REPORT OF: Waste — August 7, 1985

REPORT TO: Chemaway Transport, Inc. Attn: Rick LaQuey
5947 Oram
Dallas, Texas 75206

DATE RECEIVED: June 28, 1985

IDENTIFICATION: Leybold-Heraeus, Inc. Vacuum Pump Repair

Vapor Pressure, mm Hg @ 25°C	69
Flash Point, P.M. °F	194
Phases	Multi-Layered
Physical State	Semi-Solid
pH	6.4
Solubility, g/100g H_2O @ 20°C	*0.1
Density (Bulk), g/cc	2.31
Waste Oil, %/wt	4.1
Water, %/wt	16.3
Neoprene Rubber, %/wt	13.6
Latex Rubber, %/wt	10.6
Metal Particles, %/wt	21.1
Iron, %	18.86
Copper, %	0.63
Manganese, %	0.18
Nickel, %	0.28
Carbon, %	0.48
Misc. Materials, %/wt (Shop Rags, Tydex Suits, "O"-Rings, Packing)	15.1

* - Less than

DISTRIBUTION OF REPORTS:
2 - Chemaway Transport, Inc.
Attn: Mr. Rick LaQuey

RESPECTFULLY SUBMITTED,

Spectrum Laboratories
Gary E. Cude
Division Manager

mt Lab No. 15817

DEM051921

NOTE: Submitted material will be retained for 90 days unless otherwise notified.
Our letters and reports are for the exclusive use of the client to whom they are addressed. The use of our name must receive our prior written approval. Our letters and reports apply to the sample tested and/or inspected, and are not necessarily indicative of the qualities of apparently identical or similar materials.

MSD054
2008

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

RECYCLE / REUSE

MANIFEST Nº 015949

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 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Western Union Corporation
FILLING: CHEMWAY TRANSPORT
P.O. BOX [illegible] Cedar Hill, Texas 75104
Attn. Bill McCutcheon

4. Generator's Phone ( )

A. State Manifest Document Number

B. State Generator's ID XXX04

5. Transporter 1 Company Name | 6. US EPA ID Number
Chemway Transport Inc

C. State Transporter's ID 40605

D. Transporter's Phone (214)932-7482

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 | 10. US EPA ID Number
MARINE SHALE PROCESSORS, INC.
HIGHWAY 90 EAST
MORGAN CITY, LOUISIANA 70380
LAD981057706

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. EMPTY CONTAINER . LAST CONTAINED WATER & OIL NON REGULATED MATERIAL	1	DM	0055	P	NRM R
b.					R
c.					R
d.					R

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
CHWI/WSUN/9002838/55GAL EMPTY CONTAINER

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
IN CASE OF SPILL, DIKE AND CONTAIN. NOTIFY GENERATOR
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 | Signature | Month Day Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space
DEQ051922

20. 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

EPA Form 8700-22 (Rev. 9-88) WHITE – DEQ GREEN – Generator YELLOW – TSDF BLUE – Transporter 2 PINK – Transporter 1 GOLD – Generator

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US v. NSP PRODUCED BY NSP 9/93 Releasable
REQUEST [illegible] waste manifest

MSD054

2009

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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 21 1990

9002838

For MSP Use Only

Approval Code CHWY/WLINC/9002838

A. Generator Information

Generator Name Western Union Corporation
Site Address 777 Westar
City Ceder Hill State TX Zip Code 75104
Generator Contact Bill McCutcheon
Title Operations Manager
Telephone No. (214) 299-5091
Facility EPA I.D. No. TXD194287256

B. Customer Information

Company Name Chemaway Transport, Inc.
Contact Marianne Boyd
Address P.O. Box 877
Kaufman, Texas 75142
Telephone No. (214) 932-7482
For Customer Use

C. Regulatory Information

☐ RCRA Regulated ☐ Land Ban ☒ Non-Regulated EPA Waste Code(s) None

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
Empty Container - Last contained water and oil		100.0%

Common Name of Waste: Empty Container

E. General Characteristics

Color
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 %): 20 %
BTU's per lb (list actual value): 680
Water (Wt %): ☒ <1 ☐ 5-10 ☐ 1-5 ☐ > 10 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
Viscosity (for bulk liquids only) list actual in centipoise: cp
Total Suspended Solids (mg/L for bulk liquids only): ☐ 5-20 ☐ > 20 list actual
pH: ☐ 2-6 ☒ 6-10 ☐ 10-12.5 ☐ < 2 or > 12.5 list actual

Flash Point (closed cup): ☐ < 100°F ☐ > 200°F ☐ 100-140°F ☒ >212 °F ☐ 140°-200°F actual

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

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

Metals: EP Toxicity Test (MG/L)

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

DEQ0519223

MSD054

2010

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US v. MSP Releasable
PRODUCED BY MSP 9/93
REQUEST

H. Notes, Additional Information or Special Handling Instructions

Generating Process: Site 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.

Hard hats, tyvek suits, goggles, gloves, boots, respirators

J. Shipping Information

DOT Hazardous Material (circle one) Y / (N)

Proper Shipping Name: Empty Containers – last contained water & oil DOT I.D. No. UN/NA

Hazard Class: Non Regulated Material RQ

Anticipated Volume: 1 (Drums) Gal Yds lbs ☐ Bulk ☐ Roll

Container Size: 55 gallon Container Type: Steel Drum

Periodicity: ☒ 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. Bill McCutcheon
Generator's Signature

2. Bill McCutcheon
Name (Type or Print)

3. 5/17/90
Date

4. Operations Manager
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.

MSP Form 1040 R Rev. 10/89 DE0051924

MSD054

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

RECYCLE / REUSE

MANIFEST Nº 015948

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 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Cheraphalin Corporation
FILLING: CHERAWAY TRANSPORT 816 Avenue F East
P.O. BOX 611 KAUFMAN, TX 75142 Second Floor of 27 Plaza

4. Generator's Phone ( ) 447-0796 Attn: Bill Feldman

A. State Manifest Document Number

B. State Generator's ID 33319

5. Transporter 1 Company Name: Cheraway Transport Inc | 6. US EPA ID Number

C. State Transporter's ID 40605

D. Transporter's Phone (214)932-7462

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: L A D 9 8 1 0 5 7 7 0 6

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. RQ WASTE FLAMMABLE LIQUID, n.o.s., FLAMMABLE LIQUID, UN1993, EPA HOOL, F005, (BT TOLUENE)	3	DM	153	G	D001 F005 R
b.					R
c.					R
d.					R

GENERATOR

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
CHWY/OPTG/9002629/55GL GLUE & WATER

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
IN CASE OF SPILL, DIKE AND CONTAIN NOTIFY GENERATOR.
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 | Signature | Month Day Year 6/3/91

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Todd Saville | Signature | Month Day Year 6/3/91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space
DEQ051925

20. 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

EPA Form 8700-22 (Rev. 9-88) WHITE – DEQ GREEN – Generator YELLOW – TSDF BLUE – Transporter 2 PINK – Transporter 1 GOLD – Generator

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USEPA, HSP PRODUCED BY HSP 9/93 Releasable

MSD054

2012

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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 11 1990

9002629

For MSP Use Only
Approval Code CHWY/OPG/9002629

A. Generator Information

Generator Name: Optigraphics Corporation
Site Address: 924 Avenue J East
City: Grand Prairie State: TX Zip Code: 75050
Generator Contact: Kenneth Brihm
Title:
Telephone No.: (214) 647-2728
Facility EPA I.D. No.: TXD053699146

B. Customer Information

Company Name: Chemaway Transport, Inc.
Contact: Kenneth Brihm
Address: P.O. Box 877
Kaufman, Texas 75142
Telephone No.: (214) 932-7482
For Customer Use:

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
Ethanol		0.6 %
Isopropyl Alcohol		12.0 %
Toluene		17.0 %
Water		15.3 %
Organic Polymer (as glue)		54.1 %
Inorganic Solid (as pigment)		1.0 %

Common Name of Waste: Glue & Water

E. General Characteristics

Color: light 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 %): 20
BTU's per lb (list equivalent value): 5000
Water (Wt %): ☐ <1 ☐ 5-10 ☐ 1-5 ☐ if > 10 list actual: 15.3
Specific Gravity: ☐ < 0.8 ☐ 1.2-1.4 ☒ 0.8-1.0 ☐ 1.4-1.7 ☐ 1.0-1.2 ☐ > 1.7 list actual: .909 g/cc
Viscosity (for bulk liquids only) list actual in centipoise: ____ cp
Total Suspended Solids (Wt % for bulk liquids only): ☐ 5-20 ☐ if > 20 list actual: ____
pH: ☐ 2-6 ☒ 6-10 ☐ 10-12.5 ☐ if < 2 or > 12.5 list actual: 7.4
Flash Point (closed cup): ☒ < 100°F ☐ > 200°F ☐ 100°-140°F ☐ 75 °F actual ☐ 140°-200°F
Sulfur (Wt %): ☐ < 5 ☐ if > 5 list actual value: ____

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

DEB05179296

US v. MSP Releasable
PRODUCED BY MSP 9/93
REQUEST
Box 5 Waste Analysis Waste Profile
MSD054
2013

H. Notes, Additional Information or Special Handling Instructions

See attached laboratory analysis #89-11763

Generating Process: Binding

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.

Hard hats, tyvek suits, boots, goggles, gloves, respirators

J. Shipping Information

DOT Hazardous Material (Y) N

Proper Shipping Name: RQ Waste Flammable Liquid, n.o.s. DOT ID. No. (circle one) UN/NA UN1993

Hazard Class: Flammable Liquid RQ

Anticipated Volume: (Drums) Gal Yds Lbs ☐ Bulk ☐ Roll

Container Size: 55 Gal. Container Type

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 material tested are representative of all material described by this Material Characterization Data Sheet.

1. Kenneth R Brehm — Generator's Signature

2. Kenneth R Brehm — Name (Type or Print)

3. 5-10-90 — Date

4. Mgr. Mfg. — Title

Recertification Requirements

This Material 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. 10/89

DEQ051927

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US V. MSP Releasable
PRODUCED BY MSP 9/93
REQUEST
BOX 5 Waste Water Treatment Plant Sludge Waste Water

MSD054

2014

Waste Flammable Solid, NOS
Flammable Solid UN1325

NDRC LABORATORIES, INC.

Dallas - 1101 Commerce Drive - Richardson, Texas 75081 - (214) 238-5591 - Fax (214) 238-5592
Houston - 6284 Brookhill Drive - Houston, Texas 77087 - (713) 644-9437 - Fax (713) 644-9160

DATE RECEIVED: 6-14-89

REPORT NUMBER: 89-11763
REPORT DATE: 7-5-89

SAMPLE SUBMITTED BY: Chemaway Transport, Inc.
ADDRESS: P.O. Box 877
Kaufman, TX 75142
ATTENTION: Mr. R.L. LaQuey

SAMPLE GENERATOR: Optographics, Inc.
SAMPLE DESCRIPTION: Solid
IDENTIFYING MARKS: Glue and water

ANALYSIS REPORT

TEST REQUESTED	DETECTION LIMIT		RESULTS	
Flash Point	N/A		75°F	
Specific Gravity	0.001	g/cc	0.909	g/cc
Cyanide	1.0	mg/kg	< 1.0	mg/kg
Sulfide	1.0	mg/kg	< 1.0	mg/kg
Total Organic Halides	100	mg/kg	<100	mg/kg
Normality	0.1	N	< 0.1	N
Phenols	10.0	mg/kg	< 10.0	mg/kg
Polychlorinated Biphenyls (PCBs)	1.0	mg/kg	< 1.0	mg/kg
pH			7.4	
Chemical Composition (Qualitative-Accuracy Precision 5%)				
Solvents:			29.6	%
Ethanol		0.6 %		
Isopropyl Alcohol		12.0 %		
Toluene		17.0 %		
Water			15.2	%
Organic polymer (as glue)			54.1	%
Inorganic solid (as pigment)			1.0	%

Should you have any questions concerning this lab report, please contact the following person.

NDRC Laboratories, Inc. David R. Godwin, Ph.D.
Director of Technical Services

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US V. NSP PRODUCED BY NSP 9/93 Releasable REQUEST

MSD054

DEN051928

2015

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NDRC LABORATORIES, INC.

Dallas - 1101 Commerce Drive • Richardson, Texas 75081 • (214) 238-5591 • Fax (214) 238-5592
Houston - 6284 Brookhill Drive • Houston, Texas 77087 • (713) 644-9437 • Fax (713) 644-9160

DATE RECEIVED: 6-14-89

REPORT NUMBER: 89-11763
REPORT DATE: 7-5-89

SAMPLE SUBMITTED BY: Chemaway Transport, Inc.
ADDRESS: P.O. Box 877
Kaufman, TX 75142
ATTENTION: Mr. R.L. LaQuey

SAMPLE GENERATOR: Optographics, Inc.
SAMPLE DESCRIPTION: Solid
IDENTIFYING MARKS: Glue and water

EP TOXICITY METALS

Metal	EPA Method*	Detection Limit (mg/l)	Amount Detection (mg/l)
Arsenic	7061	0.01	<0.01
Barium	7080	0.1	<0.1
Cadmium	7130	0.01	<0.01
Chromium	7190	0.05	<0.05
Lead	7420	0.02	<0.02
Mercury	7471	0.001	<0.001
Selenium	7740	0.01	<0.01
Silver	7760	0.01	<0.01
Nickel	7520	0.05	<0.05
Thallium	7840	0.1	<0.1

* Samples were extracted for analysis following EPA Method 1310 and the individual metals were analyzed by the referenced methods from Test Methods for Evaluating Solid Wastes: Physical/ Chemical Methods (EPA SW-846).

NDRC Laboratories, Inc. David R. Godwin

David R. Godwin, Ph.D.
Director of Technical Services

DEQ051929

US V. NSP PRODUCED BY NSP 9/93 Releasable REQUEST
Box 5 Folder 1 Chemaway State Chart
MSD054
2016

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

RECYCLE / REUSE ✓

MANIFEST 011432

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. CAD 982502346 | 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
GRAPHIC IMPRESSIONS
13818 DEL SUR
SAN FERNANDO, CA 91340
4. Generator's Phone (714) 368-8694

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name | 6. US EPA ID Number
SECURITY ENVIRONMENTAL SYS. INC. | TXD 040625712

C. State Transporter's ID 113560

D. Transporter's Phone 714/892-5645

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 | 10. US EPA ID Number
MARINE SHALE PROCESSORS, INC.
HIGHWAY 90 EAST
MORGAN CITY, LOUISIANA 70380
LAD981057706

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.	I. Waste No.
a. CALIFORNIA REGULATED WASTE	001		00055	G	R NRM
b.					R
c.					R
d.					R

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
a) Printing Ink 100% (SESY/GRIN/9001352

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
WEAR 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	Signature	Month Day Year
SONDRA SPIDELL		10/17/90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
Hisham Majali		10/17/90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

FACILITY

19. Discrepancy Indication Space
DEQ051930

20. 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 (illegible)		10/23/90

EPA Form 8700-22 (Rev. 9-88) WHITE – DEQ GREEN – Generator YELLOW – TSDRF BLUE – Transporter 2 PINK – Transporter 1 GOLD – Generator

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US V. NSP
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Releasable
REQUEST
BOX
MSD054
2017F

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MATERIALS CHARACTERIZATION DATA SHEET

MARINE SHALE PROCESSORS, INC. MAR 15 1990
110 James Drive West, Suite 120
St. Rose, LA 70087
504-465-3310 9001352

For MSP Use Only
Approval Code SESY/GRIM/9001352

A. Generator Information

Generator Name Graphic Impressions
Site Address 13818 Del Sur
City San Fernando State Ca Zip Code 91340
Generator Contact Keith Zimmers
Title MGR
Telephone No. (818) 890-1788
Facility EPA I.D. No. CAD 982502346

B. Customer Information

Company Name S.E.S.
Contact Jim Dawson
Address 7245"D" Garden Grove Blvd.
Garden Grove, CA. 92641
Telephone No. (213) 431-8486
For Customer Use

C. Regulatory Information

☐ RCRA Regulated ☐ Land Ban ☒ Non-Regulated EPA Waste Code(s) RCRA EXEMPT - N.R.M.

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
ALKYD RESIN	15.0	
PHENEOLIC RESIN	20.0	
MINERAL OIL	26.0	
LINSEED OIL	16.0	
POLYETHENE WAX	3.0	
COBALT & MANGANESE TALLATE	2.0	
DRY PIGMENT	18.0	

Common Name of Waste: INK WASTE

E. General Characteristics

Color: BLACK
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 %): .76
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
BTU's per lb (list actual value): 16,145 (SEE ATACHED)
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 ☐ <2 or >12.5 list actual ____
N/S= NONE SUSPECTED

Flash Point (closed cup): ☐ <100°F ☒ >200°F ☐ ____°F actual
Sulfur (Wt %): ☐ <5 ☐ >5 list actual value N/S

Halogens (Wt %):

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

Metals: EP Toxicity Test (MG/L) (SEE ATACHED)

Arsenic (As)	N/D	Selenium (Se)	N/D
Barium (Ba)	.52	Silver (Ag)	N/D
Cadmium (Cd)	N/D	Copper (Cu)	N/S
Chromium (Cr)	N/D	Nickel (Ni)	N/S
Lead (Pb)	N/D	Zinc (Zn)	N/S
Mercury (Hg)	N/D		

Organics (ppm)

Endrin	N/S	Toxaphene	N/S
Lindane	N/S	2,4-D	N/S
Methoxychlor	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

DEQ051931

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REQUEST # ____
BOX # ____
Unidentified Hazardous Waste Treater
MSD054
2018

H. Notes, Additional Information or Special Handling Instructions

SEE ATACHED ANALYSIS

Generating Process: PRINTING INK WASTE

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, GOGGLES, PROTECTIVE CLOTHING

J. Shipping Information

DOT Hazardous Material (Y) (N) — (circle one)

Proper Shipping Name: CALIFORINA REGULATED MATERIAL — DOT I.D. No. UN/NA

Hazard Class: kO

Anticipated Volume	Drums	Gal	Yds	Lbs	☐ Bulk?	☐ Roll?
	1 X	55				

Container Size: 55 gal. — Container Type: DOT 17H Steel

Per: ☐ One time ☐ Week ☐ Month ☐ Year ☒ Other 90 Days

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 [signature] — Generator's Signature

2. Keith Zeiders — Name (Type or Print)

3. 3-8-90 — Date

4. MGR — 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.

DEQ051932

MSP Form 1040 II Rev. 10/89

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[illegible]

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2019

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LABORATORIES, INC.

(FORMERLY PEC CHEM ENGR)
1400 PIERCE RD., BAKERSFIELD, CALIFORNIA 93308 PHONE 327-4911

52

SECURITY ENVIRONMENTAL SYSTEMS INC.
7311 S GARDEN GROVE BLVD.
GARDEN GROVE, CA 92641
Attn.. JAMES DAWSON 714-891-4645

Date Reported: 05/22/90
Date Received. 05/14/90
Laboratory No.. 1368-1

Page 1

Sample Description: PRINTING INK WASTE-
11:00 PM

GRAB SAMPLE 5.12/90

TOTAL CONTAMINANTS
(Title 22, Article 11, California Administrative Code)

Constituents	Sample Results	Method P.Q.L.	Units	Method	Ref.
pH (1:1)	5.56	0.01	pH Units	9040	
Pensky-Martens Flash Point	>100 F	1.	F	1010	
TOX	436.	20.	mg/kg	9020	
Other Tests:					
Ash	0.76%	0.05	%	ASTM-D482	AST
BTU	9119.60	1.	Cal/gm	ASTM-D240	AST
BTU	16,145.02	-.	BTU/lb.	ASTM-D240	AST
BTU	137,562.85	-.	BTU/gal.	ASTM-D240	AST
BTU	8,781,226.97	-.	BTU/bbl.	ASTM-D240	AST

Constituents	Regulatory Criteria STLC, mg/l	TTLC, mg/kg
pH	2-12.5	2-12.5

Comment: All constituents reported above are in mg/kg (unless otherwise stated) on as received (wet) sample basis. Results reported represent totals (TTLC) as sample subjected to appropriate techniques to determine total levels.

P.Q.L. = Practical Quantitation Limit refers to the least amount of analyte detectable based on sample size used and analytical technique employed.
N.D. = None Detected (Constituent, if present, would be less than the method P.Q.L.).
I.S. = Insufficient Sample

STLC = Soluble Threshold Limit Concentration
TTLC = Total Threshold Limit Concentration

REFERENCES:
(1) "Test Methods for Evaluating Solid Wastes", SW 846, July, 1982.
(2) "Methods for Chemical Analysis of Water and Wastes", EPA-600, 14-79-020.

BY J. S. Eglin
J. S. Eglin

DEQ051933

DS V.. MSP PRODUCED BY MSP 9/93 Releasable
BOX 5 Unprocessed Water Sample Request
MSD054
2020

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LABORATORIES, INC.
EGLIN REG CHEM. ENGR
4100 PIERCE RD., BAKERSFIELD, CALIFORNIA 93308 PHONE 327-4911

SECURITY ENVIRONMENTAL SYSTEMS, INC.
141 E. GARDEN GROVE BLVD.
GARDEN GROVE, CA 92641

Date Reported: 02/22/90
Date Received: 02/14/90
Laboratory No.: 1356-1

EP TOXICITY

Sample Description: PRINTING INK WASTE- 11:00 PM

THIS SAMPLE 2/12/90 @

Constituents	Sample Results mg/liter	Method P.Q.L.	Analytical Method	Maximum Allowable Concentration
Arsenic	None Detected	0.01	7061	5.0
Barium	0.51	0.05	6010	100.
Cadmium	None Detected	0.05	6010	1.0
Chromium	None Detected	0.05	6010	5.0
Lead	None Detected	0.25	6010	5.0
Mercury	None Detected	0.002	7471	0.20
Selenium	None Detected	0.01	7741	1.0
Silver	None Detected	0.05	6010	5.0

Comment: All extract contaminants reported in mg/liter or a filtrate basis. Sample analyzed in accordance with EPA's (EP Toxicity Test; 24-hour extraction test.

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte detectable based on sample size used and analytical technique employed.
ND = None Detected (Constituent, if present, would be less than the method P.Q.L.)

Method from: "Test Methods for Evaluating Solid Wastes". SW 846. July, 1982.

E C LABORATORIES INC.
BY E. C. Eglin
E. C. Eglin

DEQ051934

U.S. V. MSP Releasable
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REQUEST
BOX
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MSD054
2021

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

RECYCLE / REUSE

MANIFEST 011476

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

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAD 006231144 — 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
ARTS & CRAFTS PRESS
1949 WEST WALNUT STREET
SAN DIEGO, CA 92101
4. Generator's Phone (619) 297-0261

5. Transporter 1 Company Name — 6. US EPA ID Number
SECURITY ENVIRONMENTAL SYS. INC. — CAD 000626921
7. Transporter 2 Company Name — 8. US EPA ID Number

9. Designated Facility Name and Site Address — 10. US EPA ID Number
MARINE SHALE PROCESSORS, INC.
HIGHWAY 90 EAST
MORGAN CITY, LOUISIANA 70380 — LAD 981057706

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID 113560
D. Transporter's Phone 714/892-6645
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.	L Waste No.
a. CALIFORNIA REGULATED WASTE	0101	M	010515	G	R NRM
b. CALIFORNIA REGULATED WASTE	0101	DM	010515	G	R NRM
c.					R
d.					R

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
a) Printing Ink 100% (SESY/ACRP/9001874
b) Printing Ink and Cans (SESY/ACRP/9002339

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
WEAR 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.

GENERATOR — Printed/Typed Name: Alfred Vroesch — Signature: Alfred Vroesch — Month Day Year: 10 11 91

TRANSPORTER
17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: HISHAM MATBALI — Signature: Hisham Matbali — Month Day Year: 10 11 91
18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY
19. Discrepancy Indication Space
DEQ051935
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 Kramer — Signature — Month Day Year: 10 23 91

EPA Form 8700-22 (Rev. 9-88) WHITE – DEQ GREEN – Generator YELLOW – TSDF BLUE – Transporter 2 PINK – Transporter 1 GOLD – Generator

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US v. MSP — PRODUCED BY MSP 9/93 — Releasable

MSD054

2022

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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

APR 27 1990

9002339

For MSP Use Only

Approval Code SESY/ACRP/9002339

A. Generator Information

Generator Name: Arts & Crafts Press
Site Address: 1949 W. Walnut
City: San Diego State: CA Zip Code: 92101
Generator Contact: John Walters
Title: Mgr.
Telephone No.: 619 297-0261
Facility EPA I.D. No.: CAD 008 231 144

B. Customer Information

Company Name: S.E.S.
Contact: Jim Dawson
Address: 7245 "D" Garden Grove Blvd.
Garden Grove, CA 92641
Telephone No.: 714) 892-6645
For Customer Use:

C. Regulatory Information

☐ RCRA Regulated ☐ Land Ban ☒ Non-Regulated EPA Waste Code(s): N.R.M.

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
Alkyd Resin		7.5
Phenolic Resin		10.5
Mineral Oil		13.0
Linseed Oil		8.0
Polysethlene Wax		1.5
Colbalt & Magnese Tallate		1.0
Dry Pigment		9.0
Empty cans no thicker than 17H		50.0

Common Name of Waste: Ink Waste & Cans

E. General Characteristics

Color: Black

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 %): 50.76

Water (Wt %): ☒ <1 ☐ 5-10 ☐ 1-5 ☐ > 10 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

BTU's per lb (list actual value): 10,000

Viscosity (for bulk liquids only) list actual in centipoise: 0 cp

Total Suspended Solids (Wt % for bulk liquids only): ☐ 5-20 ☐ > 20 list actual 0

pH: ☒ 2-6 ☐ 6-10 ☐ 10-12.5 ☐ < 2 or > 12.5 list actual

Flash Point (closed cup): ☐ < 100°F ☒ > 200°F ☐ 100°-140°F ☐ 140°-200°F ☐ _____ °F actual n/s= none suspected

Sulfur (Wt %) n/s: ☐ < 5 ☐ > 5 list actual value

Halogens (Wt %) n/s: ☐ Iodine n/s ☐ Bromine n/s ☐ Chlorine n/s ☐ Fluorine n/s

	1-5	5-10	if > 10 list actual Wt %
☐ Iodine n/s	☐	☐	
☐ Bromine n/s	☐	☐	
☐ Chlorine n/s	☐	☐	

actual Wt %

Metals: EP Toxicity Test (MG/L)

Arsenic (As)	n/s	Selenium (Se)	n/s
Barium (Ba)	.26	Silver (Ag)	n/s
Cadmium (Cd)	n/s	Copper (Cu)	n/s
Chromium (Cr)	n/s	Nickel (Ni)	n/s
Lead (Pb)	n/s	Zinc (Zn)	n/s
Mercury (Hg)	n/s		

Organics (ppm)

Endrin	n/s
Lindane	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

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MSD054

202

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MATERIALS CHARACTERIZATION DATA SHEET

APR 06 1990

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

APR 06 1990

For MSP Use Only

Approval Code SESY/ACRP/9001874

9001874

A. Generator Information

Generator Name Arts and Crafts Press
Site Address 1949 W Walnut
City San Diego State CA Zip Code 92101
Generator Contact John Waltne
Title Mgr.
Telephone No. (619) 297-0261
Facility EPA I.D. No. CAD008231144

B. Customer Information

Company Name Security Envir. Sys., Inc.
Contact Jim Dawson
Address 7245 "D" Garden Grove Blvd
Garden Grove, CA 92641
Telephone No. (714) 892-6645
For Customer Use

C. Regulatory Information

☐ RCRA Regulated ☐ Land Ban ☒ Non-Regulated EPA Waste Code(s) N.R.M.

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
Alkyd Resin		15.0
Phenolic Resin		20.0
Mineral Oil		26.0
Linseed Oil		16.0
Polyethene Wax		3.0
Cobalt & Manganese Tallate		2.0
		18.2

Common Name of Waste: Ink Waste Dry Pigment

E. General Characteristics

Color: Black

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 %): 76

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

Viscosity (for bulk liquids only) list actual in centipoise: 0 cp

Total Suspended Solids (Wt %-for bulk liquids only): ☐ 5-20 if > 20 list actual 0

pH: ☒ 2-6 ☐ 6-10 ☐ 10-12.5 if < 2 or > 12.5 list actual Neutral

BTU's per lb (list actual value): 16,145 list actual

(See Attached)

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

N/S = None Suspected

Sulfur (Wt %) N/S ☐ < 5 if > 5 list actual value

Halogens (Wt %) N/S 1-5 5-10 if > 10 list actual Wt %

☐ Iodine	N/S	☐	☐
☐ Bromine	N/S	☐	☐
☐ Chlorine	N/S	☐	☐
☐ Fluorine	N/S	☐	☐

actual Wt %

Metals: EP Toxicity Test (MG/L) (See Attached)

Arsenic (As)	N/D	Selenium (Se)	N/D
Barium (Ba)	52	Silver (Ag)	N/D
Cadmium (Cd)	N/D	Copper (Cu)	N/S
Chromium (Cr)	N/D	Nickel (Ni)	N/S
Lead (Pb)	N/D	Zinc (Zn)	N/S
Mercury (Hg)	N/D		

Organics (ppm) N/S = None Suspected

Endrin	N/S	Toxaphene	N/S
Lindane	N/S	2,4-D	N/S
Methoxychlor	N/S	2,4,5-TP (Silvex)	N/S

If material contains the following compounds, indicate actual ppm:

PCB	N/S	Sulfides	N/S
Cyanides	N/S	Dioxin	N/S

DEN051938

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H. Notes, Additional Information or Special Handling Instructions

California Regulated Material Only

Generating Process: Printing Ink Waste

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 and Protective Clothing

J. Shipping Information

DOT Hazardous Material: Y N

Proper Shipping Name: California Regulated Material Only

(circle one) DOT I.D. No. UN/NA

Hazard Class: RQ

Anticipated Volume: Drums 1 X Gal 55 Yds Lbs ☐ Bulk ☐ Roll

Container Size: 55 Gallon Container Type: D.O.T. 17H Steel

Per: ☒ One time ☐ Week ☐ Month ☐ Year ☐ Other 90 Days

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 John L. Walter — Generator's Signature

2. John Walter — Name (Type or Print)

3. 4/3/90 — Date

4. Manager — 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.

DEQ051939

MSP Form 1040 II Rev. 10/89

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.74

ENVIRONMENTAL CHEMICAL ANALYSIS PETROLEUM

BC LABORATORIES, INC.

J. J. EGLIN, REG. CHEM. ENGR.

4100 PIERCE RD., BAKERSFIELD, CALIFORNIA 93308 PHONE 327-4911

SECURITY ENVIRONMENTAL SYSTEMS, INC.
7245 D GARDEN GROVE BLVD.
GARDEN GROVE, CA 92641
Attn.: JAMES DAWSON 714-892-6645

Date Reported: 02/22/90 Page 1
Date Received: 02/14/89
Laboratory No.: 1368-1

Sample Description: PRINTING INK WASTE , GRAB SAMPLE 2/12/90 @ 11:00 PM

TOTAL CONTAMINANTS
(Title 22, Article 11, California Administrative Code)

Constituents	Sample Results	Method P.Q.L.	Units	Method	Ref.
pH (1:1)	5.56	0.01	pH Units	9040	1
Pensky-Martens Flash Point	>200 F	;.	F	1010	1
TOX	436.	20.	mg/kg	9020	1
Other Tests:					
Ash	0.76%	0.05	%	ASTM-D482	AST
BTU	9119.63	1.	Cal/gm	ASTM-D240	AST
BTU	16,145.32	-.	BTU/lb.	ASTM-D240	AST
BTU	137,662.55	-.	BTU/gal.	ASTM-D240	AST
BTU	5,781,826.97	-.	BTU/bbl.	ASTM-D240	AST

Constituents	Regulatory Criteria STLC, mg/l	TTLC, mg/kg
pH	2-12.5	2-12.5

Comment: All constituents reported above are in mg/kg (unless otherwise stated) on an as received (wet) sample basis. Results reported represent totals (TTLC) as sample subjected to appropriate techniques to determine total levels.

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte detectable based on sample size used and analytical technique employed.
N.D. = None Detected (Constituent, if present, would be less than the method P.Q.L.).
I.S. = Insufficient Sample

STLC = Soluble Threshold Limit Concentration
TTLC = Total Threshold Limit Concentration

REFERENCES:
(1) "Test Methods for Evaluating Solid Wastes", SW 846, July, 1982.
(2) "Methods for Chemical Analysis of Water and Wastes", EPA-600, 14-79-020.

BY J. J. Eglin
J. J. Eglin

MSD054
207

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CHEMICAL ANALYSIS
PETROLEUM

BC LABORATORIES, INC.
J. J. EGLIN, REG. CHEM. ENGR.
4100 PIERCE RD., BAKERSFIELD, CALIFORNIA 93308 PHONE 327-4911

CURITY ENVIRONMENTAL SYSTEMS, INC.
45 D GARDEN GROVE BLVD.
RDEN GROVE, CA 92641

Date Reported: 02/22/90
Date Received: 02/14/89
Laboratory No.: 1368-1

EP TOXICITY

mple Description: PRINTING INK WASTE- 11:00 PM . GRAB SAMPLE 2/12/90 @

Constituents	Sample Results mg/liter	Method P.Q.L.	Analytical Method	Maximum Allowable Concentration
Arsenic	None Detected	0.01	7061	5.0
Barium	0.52	0.05	6010	100.
Cadmium	None Detected	0.05	6010	1.0
Chromium	None Detected	0.05	6010	5.0
Lead	None Detected	0.25	6010	5.0
Mercury	None Detected	0.002	7471	0.20
Selenium	None Detected	0.01	7741	1.0
Silver	None Detected	0.05	6010	5.0

US V. MSD Releasable
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REQUEST
BOX
Untreated Wastewater
MSD054

mment: All extract contaminants reported in mg/liter on a filtrate basis. Sample analyzed in accordance with EPA's (EP Toxicity Test) 24-hour extraction test.

.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte detectable based on sample size used and analytical technique employed.
N.D. = None Detected (Constituent, if present, would be less than the method P.Q.L.).

ethods from: "Test Methods for Evaluating Solid Wastes", SW 846, July, 1982.

B C LABORATORIES, INC.
BY J. J. Eglin
J. J. Eglin

DEQ051941

MSD054

2028

DEP

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

RECYCLE / REUSE

MANIFEST Nº 015907

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

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CAL 000014610 31 — 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
CROWN PRINTERS
250 W RIALTO
SAN BARNARDINO CA 92408
4. Generator's Phone (714) 888-7531

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID 0829-113640
D. Transporter's Phone 714-892-8645
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID
H. Facility's Phone (504) 631-3161

5. Transporter 1 Company Name: SECURITY ENV. SYSTEMS INC — 6. US EPA ID Number: CAL 000106215912
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: LAD 981057706

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. CALIFORNIA RIALTO RED INK	002	DM	00110	G	R NRM
b.					R
c.					R
d.					R

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
A) Waste Printing Ink SRSY/CRN 9002340

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
WEAR 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: GILBERT D GARCIA — Signature: Gilbert D. Garcia — Month Day Year: 10/17/91

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: HISHAM MATDALI — Signature: Nisha Majdali — Month Day Year: 10/21/91

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space
DEQ051942

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 PLANTER — Signature — Month Day Year

EPA Form 8700-22 (Rev. 9-88) WHITE – DEQ GREEN – Generator YELLOW – TSDRF BLUE – Transporter 2 PINK – Transporter 1 GOLD – Generator

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U.S. v. NSP
PRODUCED BY NSP 9/93
Releasable
REQUEST
BOX
Waste Water Treatment Facility

MSD054

2029 F

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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

APR 27 1990

9002340

For MSP Use Only

Approval Code SESY/CRN/9002340

A. Generator Information

Generator Name: CROWN PRINTERS
Site Address: 250 W. RIALTO AVE.
City: SAN BERNARDINO, State: CA, Zip Code: 92408
Generator Contact: GILBERT GARCIA
Title: MAINTENANCE SUPERVISOR
Telephone No. (714) 888-7531
Facility EPA I.D. No.: CAL000004603

B. Customer Information

Company Name: Security Envir. Sys., Inc.
Contact: Jim Dawson
Address: 7245 "D" Garden Grove Blvd.
Garden Grove, CA 92641
Telephone No.: 714 892-6645
For Customer Use:

C. Regulatory Information

☐ RCRA Regulated ☐ Land Ban ☒ Non-Regulated EPA Waste Code(s): N.R.M.

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
Alkyd Resin		15.0
Phenolic Resin		20.0
Mineral Oil		26.0
Linseed Oil		16.0
Polyethene Wax		3.0
Cobalt & Manganese Tallate		2.0
Dry Pigment		18.2

Common Name of Waste: Ink Waste

E. General Characteristics

Color: Black

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 %): 76

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) list actual in centipoise: 0 cp

Total Suspended Solids (Wt %-for bulk liquids only): ☐ 5-20 ☐ > 20 list actual: 0

pH: ☒ 2-6 ☐ 6-10 ☐ 10-12.5 ☐ < 2 or > 12.5 list actual:

BTU's per lb (list actual value): 16,145 list actual:

(See Attached)

N/S = None Suspected

Neutral

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

Sulfur (Wt %) N/S: ☐ < 5 ☐ > 5 list actual value:

Halogens (Wt %) N/S: ☐ Iodine N/S ☐ Bromine N/S ☐ Chlorine N/S ☐ Fluorine N/S actual Wt %

	1-5	5-10	if > 10 list actual Wt %
☐ Iodine N/S	☐	☐	
☐ Bromine N/S	☐	☐	
☐ Chlorine N/S	☐	☐	

Metals: EP Toxicity Test (MG/L) (See Attached)

Arsenic (As)	N/D	Selenium (Se)	N/D
Barium (Ba)	.52	Silver (Ag)	N/D
Cadmium (Cd)	N/D	Copper (Cu)	N/S
Chromium (Cr)	N/D	Nickel (Ni)	N/S
Lead (Pb)	N/D	Zinc (Zn)	N/S
Mercury (Hg)	N/D		

Organics (ppm) N/S = None Suspected

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

US V. MSP PRODUCED BY MSP 9/93 Released REQUEST
BOX 5 Waste Analysis Waste Analysis
MSD054
DEO051943

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H. Notes, Additional Information or Special Handling Instructions

California Regulated Material Only

Generating Process: Printing Ink Waste

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 and Protective Clothing

J. Shipping Information

DOT Hazardous Material Y N (circle one)

Proper Shipping Name: California Regulated Material Only DOT I.D. No. UN/NA

Hazard Class RQ

Anticipated Volume Drums 1 X Gal 55 Yds Lbs ☐ Bulk? ☐ Roll?

Container Size 55 Gallon Container Type D.O.T. 17H Steel

Per ☒ One time ☐ Week ☐ Month ☐ Year ☒ Other 90 Days

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. Gilbert Garcia — Generator's Signature

2. GILBERT GARCIA — Name (Type or Print)

3. 4/19/90 — Date

4. MAINTENANCE SUPERVISOR — 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.

DEQ051944

MSP Form 1040 II Rev. 10/89

US V. HSP Releasable
PRODUCED BY HSP 9/93
REQUEST # 2-1
BOX # 5 Hazardous Waste Manifest
MSD054
201

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ENVIRONMENTAL
VOCAL ANALYSIS
PETROLEUM

BC LABORATORIES, INC.

J. J. EGLIN, REG CHEM ENGR.
4100 PIERCE RD., BAKERSFIELD, CALIFORNIA 93308 PHONE 327-4911

SECURITY ENVIRONMENTAL SYSTEMS, INC.
7245 D GARDEN GROVE BLVD.
GARDEN GROVE, CA 92641
Attn.: JAMES DAWSON 714-892-6645

Date Reported: 02/22/90 Page 1
Date Received: 02/14/89
Laboratory No.: 1368-1

Sample Description: PRINTING INK WASTE , GRAB SAMPLE 2/12/90 @ 11:00 PM

TOTAL CONTAMINANTS
(Title 22, Article II, California Administrative Code)

Constituents	Sample Results	Method P.Q.L.	Units	Method	Ref.
pH (1:1)	5.56	0.01	pH Units	9040	1
Pensky-Martens Flash Point	>200 F	1.	F	1010	1
TOX	436.	20.	mg/kg	9020	1
Other Tests:					
Ash	0.76%	0.05	%	ASTM-D482	AST
BTU	9119.62	1.	Cal/gm	ASTM-D240	AST
BTU	16,145.32	-.	BTU/lb.	ASTM-D240	AST
BTU	137,662.55	-.	BTU/gal.	ASTM-D240	AST
BTU	5,781,826.97	-.	BTU/bbl.	ASTM-D240	AST

Constituents	Regulatory Criteria STLC, mg/l	TTLC, mg/kg
pH	2-12.5	2-12.5

Comment: All constituents reported above are in mg/kg (unless otherwise stated) on an as received (wet) sample basis. Results reported represent totals (TTLC) as sample subjected to appropriate techniques to determine total levels.

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte detectable based on sample size used and analytical technique employed.
N.D. = None Detected (Constituent, if present, would be less than the method P.Q.L.).
I.S. = Insufficient Sample

STLC = Soluble Threshold Limit Concentration
TTLC = Total Threshold Limit Concentration

REFERENCES:
(1) "Test Methods for Evaluating Solid Wastes", SW 846, July, 1982.
(2) "Methods for Chemical Analysis of Water and Wastes", EPA-600, 14-79-020.

BY J. J. Eglin
J. J. Eglin

US V. NSP
Releasable
PRODUCED BY NSP 9/93
REQUEST
BOX
MSD054
2032

DEQ051945

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ENVIRONMENTAL
WATER: ANALYSIS
PETROLEUM

BC LABORATORIES, INC.
J. J. EGLIN, REG. CHEM. ENGR.
4100 PIERCE RD., BAKERSFIELD, CALIFORNIA 93308 PHONE 327-4911

SECURITY ENVIRONMENTAL SYSTEMS, INC.
7245 D GARDEN GROVE BLVD.
GARDEN GROVE, CA 92641

Date Reported: 02/22/90
Date Received: 02/14/89
Laboratory No.: 1368-1

EP TOXICITY

Sample Description: PRINTING INK WASTE- 11:00 PM . GRAB SAMPLE 2/12/90 @

Constituents	Sample Results mg/liter	Method P.Q.L.	Analytical Method	Maximum Allowable Concentration
Arsenic	None Detected	0.01	7061	5.0
Barium	0.5?	0.05	6010	100.
Cadmium	None Detected	0.05	6010	1.0
Chromium	None Detected	0.05	6010	5.0
Lead	None Detected	0.25	6010	5.0
Mercury	None Detected	0.002	7471	0.20
Selenium	None Detected	0.01	7741	1.0
Silver	None Detected	0.05	6010	5.0

Comment: All extract contaminants reported in mg/liter on a filtrate basis. Sample analyzed in accordance with EPA's (EP Toxicity Test) 24-hour extraction test.

P.Q.L. = Practical Quantitation Limit (refers to the least amount of analyte detectable based on sample size used and analytical technique employed.

N.D. = None Detected (Constituent, if present, would be less than the method P.Q.L.).

Methods from: "Test Methods for Evaluating Solid Wastes", SW 846, July, 1982.

B C LABORATORIES, INC.
BY: J. J. Eglin
J. J. Eglin

U.S. V. MSP PRODUCED BY MSP 9/93 Releasable
BOX 5 REQUEST 4 Unfiltered Waste Analysis
MSD054
2031

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

RECYCLE / REUSE

MANIFEST No. 016778

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.: TND991279480 00504

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
AMERICAN RESOURCE RECOVERY CORP.
901 E. BODLEY MEMPHIS, TN. 38106

4. Generator's Phone (901) 774-2340

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name: AMERICAN RESOURCE RECOVERY CORP.
6. US EPA ID Number: TND991279480

C. State Transporter's ID

D. Transporter's Phone: 901-774-2340

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: LAD981057706

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.	I. Waste No.
a. "RQ" WASTE FLAMMABLE SOLID N.O.S. (RUST SCALE) UN1325 (E.P.A. D001) "RQ" 100 LBS	070	DM	35000	LBS	R D001
b.					R
c.					R
d.					R

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
11a. ARR/ARR 9002688

K. Handling Codes for Wastes Listed Above
JILL R. WARD
901-774-2340

15. Special Handling Instructions and Additional Information
IN CASE OF SPILL OR ACCIDENT CONTACT: CTC INDUSTRIAL SERVICES, INC. @ 901-9882222
EMERGENCY RESPONSE UNIT

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.

GENERATOR

Printed/Typed Name	Signature	Month Day Year
Jill R. Ward	Jill R Ward	11 10 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
Tom King	Tom King	11 15 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

FACILITY

19. Discrepancy Indication Space
DEQ051947

20. 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
SHELLEY REID		11 20 90

EPA Form 8700-22 (Rev. 9-88) WHITE – DEQ, GREEN – Generator, YELLOW – TSDRF, BLUE – Transporter 2, PINK – Transporter 1, GOLD – Generator

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US V. NSP
PRODUCED BY NSP 9/93
Releasable
REQUEST

MSD054

2054 F

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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 16 1990

9002683

For MSP Use Only
Approval Code ARR | ARR | 90021688

A. General Information

Company Name: AMERICAN RESOURCE RECOVERY
Address: 901 EAST BODLEY
City: MEMPHIS State: TN Zip Code: 38106
Generator Contact: JEFF MAYS
Title: ENVIRONMENTAL PROGRAMS COORDINATOR
Telephone No.: (901) 774-2340
Facility EPA I.D. No.: TND 991 279 480

B. Customer Information

Company Name: ARRC
Contact: DON OR SCOTT DOWDY
Address: PO BOX 1533
MEMPHIS, TN 38101
Telephone No.: (901) 774-2050
For Customer Use:

C. Regulatory Information

[X] RCRA Regulated · [X] Land Ban · [ ] Non-Regulated · EPA Waste Code(s): D001

D. Chemical Composition

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

	MIN	MAX
RUST SCALE SOLIDS	95	98
GASOLINE		1
AMMONIA	1	3
WATER	1	3

Common name of waste: RUST SCALE # 283, 664

E. General Characteristics

Color: BROWN
Odor: [ ] None [ ] Mild [X] Strong NH_3
[ ] Liquid [ ] Sludge [X] Solid [ ] Powder
Phases: [X] Single Layer [ ] Double Layer [ ] Multi-Layer

F. Specific Characteristics

Is the waste:

Toxic/corrosive	Y (N)		Ignitable	Y (N)	
Infectious	Y (N)		Pyrophoric	Y (N)	
Water Reactive	Y (N)		Explosive	Y (N)	

G. Physical/Chemical Properties

Ash (list actual Wt %): 85-95
BTU's per lb (list actual value): 3560
Water (Wt %): [ ] <1 [ ] 5-10 [X] 1-5 [ ] >10 — list actual:
Specific Gravity: [ ] <0.8 [ ] 1.2-1.4 [ ] 0.8-1.0 [ ] 1.4-1.7 [X] 1.0-1.2 [ ] >1.7 — list actual:
Viscosity (for bulk liquids only): list actual in centipoise: ____ cp
Total Suspended Solids: [ ] 5-20 [ ] >20 — list actual:
pH: [ ] 2-6 [X] 6-10 [ ] 10-12.5 [ ] <2 or >12.5 — list actual: 10

Flash Point (closed cup): [ ] <100°F [X] 100°-140°F [ ] 140°-200°F [ ] >200°F — actual: 128 °F
Sulfur (Wt %): [ ] <5 [ ] >5 list actual value:

Halogens (Wt %): <1 / 1-5 / 5-10 / >10 list actual Wt %

	<1	1-5	5-10	>10 list actual Wt %
[ ] Iodine	X	[ ]	[ ]	
[ ] Bromine	X	[ ]	[ ]	
[ ] Chlorine	X	[ ]	[ ]	
[ ] Fluorine				

actual ____ Wt %

Metals EP Toxicity Test (MG/L) TCLP

Arsenic (As)	<0.5	Selenium (Se)	<0.1
Barium (Ba)	<5	Silver (Ag)	<0.05
Cadmium (Cd)	<0.05	Copper (Cu)	<10
Chromium (Cr)	<0.05	Nickel (Ni)	<5
Lead (Pb)	0.23	Zinc (Zn)	<50
Mercury (Hg)	<0.05		

Organics (ppm)

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

If material contains the following compounds, indicate actual ppm:

PCB	NS
Cyanides	NS
Sulfides	NS
Dioxin	NS

NS = NONE SUSPECTED

DERO51948

US V. MSP PRODUCED BY MSP 9/93 Releasable
BOX 5 Waste characterization sheets
MSD054
MSD054
2 of 3

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US V. NSP Releasable
PRODUCED BY NSP 9/93
REQUEST

H. Notes, Additional Information or Special Handling Instructions

TCLP Metals Analysis Attached

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: BARGE CLEANING

J. Shipping Information

DOT Hazardous Material (Y) N

Proper Shipping Name "RQ" WASTE FLAMMABLE SOLID, N.O.S. DOT I.D. No. (circle one) UN/NA 1325

Hazard Class FLAMMABLE SOLID RQ 100 LBS

Anticipated Volume 100 (Drums) Gal Yds Lbs ☐ Bulk ☐ Roll

Container Size 55-GAL Container Type D.O.T. STEEL

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 wilful 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. Jeff Mays — Generator's Signature

2. JEFF MAYS — Name (type or Print)

3. 5/15/90 — Date

4. ENVIRONMENTAL PROGRAM COORD. — 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.

DEQ051949

MSD054

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INTEROFFICE MEMO

TO: Jack Mount
cc: Chris Maheu
Walter Rushin
Estelle Quijano

SUBJECT: Incoming samples

FROM: Jay Tan

DATE: 5-24-90

(1) Generator: Occidental Chemical Corp (MSP# 9002649)

BTU/# 15960 water: 4.02% Compatibility: O.K.
Halogen: 1.13% Ash: < 1%
pH = 3.5 flash point: < 100°F.
ordor: mild

Comments: We will be able to take this material in tank truck after the generator adjust the pH to 6 ~ 9.

(2) Generator: Romic Chemical Corporation (MSP# 9002676)

BTU/# : < 10 (won't burn)
ordor: strong.
Comment: ~~PPO in 20 Gal~~

(3) Generator: American Resource Recovery (MSP# 9002688)

BTU/#: 2429 water: 8.48% italogen: 0.10%
Ash: 71.5% ordor: mild compatibility: ok

Comments: i) The material is classified as flammable solid by the generator. It doesn't seem right.
ii) We ~~not~~ may take this material in 55 Ga

DEQ051950

US V. NSP PRODUCED BY NSP 9/93 Releasable
BOX 5 Hazardous Waste Master
MSD054
2071

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

RECYCLE / REUSE

MANIFEST No. 920409

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

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. WVD005005087 — Manifest Document No. 12999
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
FMC CORPORATION - PHOSPHORUS CHEMICALS DIVISION
P.O. BOX 547 - NITRO, WEST VIRGINIA 25143

4. Generator's Phone (304) 755-6429

5. Transporter 1 Company Name: L&K TRUCKING CO., INC. — 6. US EPA ID Number: OHD981505228
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: LAD981057706

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone: (513) 860-5515
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	K. Waste No.
a. WASTE PLASTICIZER DISTILLATION RESIDUE (NOT RCRA HAZARDOUS)	96	DM	40000	P	NONE
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
A. FMCV/FMCV-8904255

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
MANIFEST TO ACCOMPANY SHIPMENT. THE APPROPRIATE COPY, PROPERLY COMPLETED, MUST BE RECEIVED BY FMC/NITRO BEFORE PAYMENT WILL BE AUTHORIZED. RETURN MANIFEST TO THE ATTN: RICK GERSE.

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: D.D. PAGE, CUSTOMER SERVICE SUPVR. — Signature — Month Day Year: 06 29 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Michael T. Cowdry — Signature — Month Day Year: 6 29 90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space: DEQ051951

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 — Month Day Year: 6 29 90

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

US v. H&P — Releasable — PRODUCED BY H&P 9/93 — REQUEST Waste Transfer Records

MSD054

2088

8904255

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

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

MCDS Document # _____ JUL 31 1989

FMCU | FMCU | 8904255

MSP CODE: _____

Generator Name: FMC Corporation
Facility Address: P.O. Box 547, Plant Road
City, State, Zip: Nitro, WV 25143
Technical Contact: Richard Gerae
Title: Sr. Environmental Engineer
Telephone NO. (304) 755-6486 EXT: _____
Facility EPA ID #: WVD 005005087

Bill To: FMC Corporation
Address: P.O. Box 547
City, State, Zip: Nitro, WV 25143
Telephone #: (304) 755-6486
Company Contact: Richard Gerae
Container Size: 55 Gal. Steel Drum
EPA Waste No.: None
Generating Process: Phosphate Ester Production
Common Name of Waste: Plasticizer - Residue
Rate of Generation: 1,000,000 lbs (Quant) PER year (Units)
MAX
Volume In Storage _____ (Quant) (Units) IN _____ (Container Size and Type)

Is Waste DOT Hazardous | | YES |X| NO
Proper DOT Shipping Name: None, not regulated
Hazard Class: None ID No.: None
Transportation Equipment: _____
Placarding: _____

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Phenolic compounds complex	%
(e.g. alkylate phenols/aluminum) 15	%
	%
Tri aryl phosphate esters 70	%
	%
Phosphate ester dimers, trimers 15	%
	%

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	Less than 5	Silver (Ag)	*
Barium (Ba)	*	Copper (Cu)	*
Cadmium (Cd)	*	Nickel (Ni)	*
Chromium (Cr)	*	Zinc (Zn)	*
Lead (Pb)	*		
Mercury (Hg)	*		
Selenium (Se)	*		

* *Less than EP Tox limit.

INORGANICS (mg/l or ppm)

Total CN	*	Iodine	*
Free CN	*	Asbestos	*
Sulfide	*		
Chloride	3000		
Bisulfite	*		
Sulfite	*		
Sulfate	*		
Phosphate	10% as P (from phosphate ester)		
Fluorine	*		
Bromine	*		
Chlorine	*		

*Not expected

ORGANICS (mg/l or ppm)

Endrin	*	Organohalide	*
Methoxychlor	*	Mercaptans	*
Toxaphene	*		
2, 4-D	*		
2,4,5-T	*		
Phenol(ics)	20%		
PCBs	*		
Dioxin	*		
TOC	*		

*Not expected

PHYSICAL DESCRIPTION

Physical State	|X| Liquid				Semi-solid		Solid
Phases/Layering	|X| Uni-Layer				Bilayer		Multilayer
Viscosity			High	|X|	Medium		Low
Type of Solids			Organic				Inorganic		Mixed

Total Solids (wt. %) _____ Suspended Solids (wt. %) _____
Est. BTU/lb 12-14K % Ash Content _____ % Water (by weight) _____
Flash Point (°F) >400 Type _____
Specific Gravity 1.1 - 1.3
Boiling Point, (°C) 250 @ 4mmHg Freezing Point, (°C) _____
Vapor Pressure (mm Hg @ 24°C) 0.0000001
pH (Avg) N/A (Range) (organic) to _____
Total Alkalinity/Acidity (%) _____
Odor: Slight
Color: Dark or black

HAZARDOUS PROPERTIES

			NONE
	Water Reactive		Reactive		Explosive
	Shock Sensitive		Pyrophoric		Polymerizable
	Radioactive		Pesticide Residuals		Ignitable
	Corrosive	|X| Toxic Vapor		Pathogen
	Biological		Etiological		
	Other _____				

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

FMC procedures call for hard hat, safety glasses, safety shoes and 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 July 26, 1989 GENERATOR'S SIGNATURE: Richard E. Gerae

DEQ051952

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US V. NSP PRODUCED BY NSP 9/93 Releasable

REQUEST Waste Profiles

MSD054

2089

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JUL 31 1989

FMC Corporation

Phosphorus Chemicals Division
Box 547
Nitro, West Virginia 25143
304 755 6300

FMC

July 26, 1989

Mr. Michael Jaubert
Marine Shale Processors, Inc.
P. O. Box 1698
Kenneer, LA 70063

Dear Mike:

MSP approval FMCV/FMCV/8808220 covers a material that could be either a liquid or a stiff, tar-like solid. The MCDS noted the possible presence of clean sand or floor dry and estimated the heat content as 10,000 BTU/lbs. to allow for that. We can segregate the drums that are liquid and I would expect them to have a heat content of around 12,000-14,000 BTU/lb.

I have attached an MCDS for the liquid. Please quote on this liquid material as a Category IV.A.

Also, please quote on the non-liquid material as a Category IV.B.

If you have any questions, please contact me. Phone (304) 755-6486. FAX (304) 755-6325.

Very truly yours,

Richard E. Gerse
Sr. Environmental Engineer

REG:sh
Attachment

US V. MSP Releasable
PRODUCED BY MSP 9/93
REQUEST
BOX, FOLDER, ITEM, ADDL. INFO.
MSD054
2040

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

RECYCLE / REUSE 100807

MANIFEST

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

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. OHD 066 461 268 — Manifest Document No. 00867

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Ford Motor Company
5020 Tiffin Avenue
Attn: R. Frasca/G. Bowling
Sandusky, OH 44870

4. Generator's Phone (419) 627-3452

A. State Manifest Document Number

B. State Generator's ID

C. State Transporter's ID

D. Transporter's Phone 419/771-1500

E. State Transporter's ID

F. Transporter's Phone

G. State Facility's ID

H. Facility's Phone (504) 631-3161

5. Transporter 1 Company Name: Cousins Waste Control Corp. — 6. US EPA ID Number: OHD 068 787 585

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: LAD 981 057 706

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	Waste No.
GENERATOR a. Hazardous Waste Liquid, N.O.S. ORM-E (F001R, D006R, D007R, D008R)	003	DM	00165	G	F001R D006R D007R D008R
b.					R
c.					R
d.					R

J. Additional Descriptions for Materials Listed Above — RECYCLE/REUSE
a) Sump Clean-Out CUC/FHCO/900877866 (Drum #'s 8, 10, 21)

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information — National Response Center 1-800-424-8802
In Case of Fire: ater spray, fog or foam.
In Case of Spill: Take up with noncombustible absorbent material.

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: ROBERT E. WHETSTONE — Signature: Robert E. Whetstone — Month Day Year: 06/13/90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DONALD E. PARKS — Signature — Month Day Year: 06/13/90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space
DEQ051954

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Gavin Burkett — Signature — Month Day Year

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US V. MSP PRODUCED BY MSP 9/93 Releasable

MSD054

204 F

MATERIALS CHARACTERIZATION DATA SHEET

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

MAY 17 1990

9002726

For MSP Use Only
Approval Code CWC/FMCO/9002726

A. Generator Information

Generator Name FORD MOTOR COMPANY
Site Address 3020 TIFFIN AVE.
City SANDUSKY State OH Zip Code 44870
Generator Contact RICK FRASCA
Title MANUFACTURING ENGINEER
Telephone No. (419) 627-34141
Facility EPA I.D. No. OHD 004 461 208

B. Customer Information

Company Name COUSINS WASTE CONTROL
Contact DON PARKS
Address 1801 MATZINGER Rd.
TOLEDO, OH 43612
Telephone No. (419) 726-1500
For Customer Use

C. Regulatory Information

☒ RCRA Regulated ☒ Land Ban ☐ Non-Regulated EPA Waste Code(s) F001, D006, D007, 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
DIRT AND DEBRIS	30	50
WATER	10	15
OIL AND OIL SLUDGE	20	30
111- TRICHLOROETHANE	1	5

Common Name of Waste: SUMP CLEAN OUT

E. General Characteristics

Color: BROWN to BLACK
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 %): 5-10 %
BTU's per lb (list actual value): 8,000
Water (Wt %): ☐ <1 ☐ 5-10 ☐ 1-5 ☐ if > 10 list actual 10-15
Specific Gravity: ☐ <0.8 ☐ 1.2-1.4 ☐ 0.8-1.0 ☐ 1.4-1.7 ☒ 1.0-1.2 ☐ > 1.7 list actual
Viscosity (for bulk liquids only) list actual in centipoise: N/A cp
Total Suspended Solids (Wt %-for bulk liquids only): ☐ 5-20 ☐ if > 20 list actual N/A
pH: ☐ 2-6 ☒ 6-10 ☐ 10-12.5 ☐ if < 2 or > 12.5 list actual

Flash Point (closed cup): ☐ < 100°F ☐ 100°-140°F ☐ 140°-200°F ☒ > 200°F ☐ _____ °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 %: =

Metals: EP Toxicity Test (MG/L)

Arsenic (As)	<.05	Selenium (Se)	<.05
Barium (Ba)	8.2	Silver (Ag)	<.05
Cadmium (Cd)	6.6	Copper (Cu)	110.2
Chromium (Cr)	178	Nickel (Ni)	61.4
Lead (Pb)	22.2	Zinc (Zn)	310
Mercury (Hg)	<.05		

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

DEQ051955

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US V. MSP
PRODUCED BY MSP 9/93
REQUEST
Releasable

MSD054

2042

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

RECYCLE / REUSE

MANIFEST 011567

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. LIA D 0 8 1 1 6 5 1 1 7 Manifest Document No. 5 6 8 7

2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
W.R. Grace
10 Harmony Street
Adams, MA 01220

4. Generator's Phone (413) 743-0516

5. Transporter 1 Company Name: DFT TRANSPORTATION / SYRACUSE NY

6. US EPA ID Number: NYD 0 8 1 8 1 6 1 5 1 8 1 6 1 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

A. State Manifest Document Number
B. State Generator's ID
C. State Transporter's ID # 49607 (MA)
D. Transporter's Phone 1-800-631-1139
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.	L Waste No.
a. RQ, Waste Flammable liquid, n.o.s. Flammable liquid UN1993	01312	DM	117610	G	F005 R
b. RQ, Waste Flammable solid, n.o.s. Flammable solid UN1325	42	DM	2370	P	F005 R
c. RQ, Waste Flammable solid, n.o.s. Flammable solid UN1325	01016	DM	3300	G P	F005 R
d.					R

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
a. NES/BWRC-8902236
b. NES/BWRC-8902237
c. NES/BWRC-8904667

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
PO# 402750

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: Alexander W NAGY — Signature: Alexander W Nagy — Month Day Year: 06 22 90

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Sy Wieder — Signature: Sy Wieder — Month Day Year: 06 22 90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space
DEQ051956

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 Bernard — Signature: Earl Bernard — Month Day Year: 06 25 90

GENERATOR / TRANSPORTER / FACILITY

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US V. M&P PRODUCED BY M&P 9/93 Releasable
REQUEST Hazardous Waste Manifest

MSD054

2043

RECERTIFICATION OF MATERIAL CHARACTERIZATION DATA SHEET

MSP Approval Code: NES /CURC/89022361 /

Date printed: 9/27/90 Rep.ID: BAF

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: W R GRACE & CO MA
Telephone: (000) x.0000
Facility Address: 10 HARMONY STREET
USEPA ID: MAD002081651
ADAMS, MA 01220-0000
Name of Waste: THICK ADHESIVES
Generating Process:
Technical Contact: MR. ALEX MACY
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:

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) 17-E X 55
Anticipated Volume: 10-20 Drums ~~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: Alexander W MACY
Signature:
Title: Assistant Plant Manager
Date: 9/17/90

MSP Form 1040-R (November 89)

DEB0043957

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US v. MSP PRODUCED BY MSP 9/93 Releasable

MSD054

2044

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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_____

A. Generator Information

Generator Name: WR Grace
Site Address: 10 Harmony St.
City: Adams State: MA Zip Code: 01220
Generator Contact: Alex Nagy
Title: Asst. Plant Mgr
Telephone No.: (413) 743-0546
Facility EPA I.D. No.: MAD 002 081 651

B. Customer Information

Company Name: GSX Northeast
Contact: Kim Ellison
Address: 221 Sutton Street
North Andover, MA 01845
Telephone No.: (508) 683-1002
For Customer Use

C. Regulatory Information

[X] 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
Toluene	50	75
rubber	25	50
methyl ethyl ketone		<25
1-nitropropane		<25

Common Name of Waste: Thick Adhesives

E. General Characteristics

Color: Varies
Odor: [ ] None [ ] Mild [X] Strong
[X] Liquid [ ] Sludge [ ] Solid [ ] Powder
Phases [X] 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
BTU's per lb (list actual value): 10,000 - 12,000
Water (Wt %): [X] <1 [ ] 5-10 [ ] 1-5 [ ] if > 10 list actual _____
Specific Gravity: [ ] < 0.8 [ ] 1.2-1.4 [X] 0.8-1.0 [ ] 1.4-1.7 [ ] 1.0-1.2 [ ] > 1.7 list actual _____
Viscosity (for bulk liquids only) list actual in centipoise _____ cp
Total Suspended Solids (Wt %-for bulk liquids only): [ ] 5-20 [ ] if > 20 list actual _____
pH: [ ] 2-6 [X] 6-10 [ ] 10-12.5 [ ] if < 2 or > 12.5 list actual ~7

Flash Point (closed cup): [ ] < 100°F [ ] 100°-140°F [ ] 140°-200°F [ ] > 200°F [X] <70 °F actual
Sulfur (Wt %): [X] < 5 [ ] if > 5 list actual value _____

Halogens (Wt %):

	<1	1-5	5-10	if > 10 list actual Wt %
[ ] Iodine	[X]	[ ]	[ ]	
[ ] Bromine	[X]	[ ]	[ ]	
[ ] Chlorine	[X]	[ ]	[ ]	
[ ] Fluorine	<1	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

DER0519958

U.S.V. MSP Releasable
PRODUCED BY MSP 9/93
REQUEST # _____
Unitized Waste Analysis Plan
Attachment 5
MSD054
2045

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

H. Notes, Additional Information or Special Handling Instructions

Generating Process: Manufacturing Printing blankets

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: Waste Flammable liquid, n.o.s. DOT I.D. No. (circle one) UN/NA UN1993

Hazard Class: Flammable liquid RQ

Anticipated Volume: 10-20 (Drums) Gal Yds Lbs ☐ Bulk? no ☐ Roll? no

Container Size: 55 gallon Container Type: 17E x 55

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. Alexander W NAGY — Generator's Signature

2. Alexander W NAGY — Name (Type or Print)

3. 4/17/90 — Date

4. Assistant Plant Manager — 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.

DEQ051959

MSP Form 1040 II Rev. 10/89

U.S. v. MSP Releasable
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REQUEST
BOX
MSD054
2046

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MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

MCDS Document # 8902236

SALES (504) 465-3310

NES|GWRC|8902236
MSP CODE:

8902236 APR 27 1989

Generator Name W.R. Grace + Co.
Facility Address 10 Harmony Street

City, State, Zip Adams, MA 01220
Technical Contact N.J. Nagy
Title Asst. Plant Mgr.
Telephone NO. (413) 743-0546 EXT:
Facility EPA ID # MAD 003 081 651

Bill To: North East Solvents Corp.
Company Contact: Kim Ellison
Container Size: 55 gallon drum
EPA Waste No. F005
Generating Process Mfg. Printing Blankets
Common Name of Waste Thick Adhesives
Rate of Generation 10-20 drums/PER 90 days
(Quan) (Units) (Time Interval)
Volume in Storage 25 drms IN 17 x 55
(Quan) (Units) (Container Size and Type)

Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name RQ waste flammable liquid, nos
Hazard Class Flammable Liquid ID No. UN 1993
Transportation Equipment — Boston
Placarding Flammable Liquid

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Toluene	50-75	%
Xylene	25-50	%
Dimethyl ethyl Ketone	<5	%
1-Methoxy propanol	<5	%
		%
		%
		%

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	none	Silver (Ag)	none
Barium (Ba)		Copper (Cu)	
Cadmium (Cd)		Nickel (Ni)	
Chromium (Cr)		Zinc (Zn)	
Lead (Pb)			
Mercury (Hg)			
Selenium (Se)			

INORGANICS (mg/l or ppm)

Total CN	none	Iodine	none
Free CN		Asbestos	none
Sulfide			
Chloride			
Bisulfite			
Sulfite			
Sulfate			
Phosphate			
Flourine			
Bromine			
Chlorine			

ORGANICS (mg/l or ppm)

Endrin	none	Organohalide	none
Methoxychlor		Mercaptans	none
Toxaphene			
2,4-D			
2,4,5-T			
Phenolics			
PCBs			
Dioxin			
TOC			

PHYSICAL DESCRIPTION

Physical State	[ ] Liquid	[ ] Semi-solid	[ ] Solid	
Phases/Layering	[X] Uni-Layer	[ ] Bilayer	[ ] Multilayer	
Viscosity	[ ] High	[ ] Medium	[X] Low	
Type of Solids	[X] Organic	[ ] Inorganic	[ ] Mixed	

Total Solids (wt. %) 35 Suspended Solids (wt. %) <5
BTU/lb 10-12K % Ash Content <3 % Water (by weight) trace
Flash Point (F) <70 Type
Specific Gravity .8 - 1.0
Boiling Point, (C) N/A Freezing Point, (C) N/A
Vapor Pressure (mm Hg @ 24°C) N/A
pH (Avg) N/A 7 (Range) 4 to 10
Total Alkalinity/Acidity (%) <1
Odor Strong
Color

HAZARDOUS PROPERTIES

[X] NONE

[ ] Water Reactive	[ ] Reactive	[ ] Explosive
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Polymriable
[ ] Radioactive	[ ] Pesticide Residuals	[X] 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 4/12/89 GENERATOR'S SIGNATURE: N.J. Nagy

DEQ051960

US V. MSP PRODUCED BY MSP 9/93 Released to Public Request of Waste Material

MSD054

2047

RECERTIFICATION OF MATERIAL CHARACTERIZATION DATA SHEET

MSP Approval Code: NES /CURC/B9022237/ /

Date printed: 3/27/90 Rep.ID: BAF

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: W R GRACE & CO MA

Telephone: (000) x.0000

Facility Address: 10 HARMONY STREET

USEPA ID: MAD002081651

ADAMS, MA 01220-0000

Name of Waste: CONTAMINATED DEBRIS & RAGS

Generating Process:

Technical Contact: MR. ALEX NAGY

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:

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 Gallon (17H)

Anticipated Volume: 10-20 Drums 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: Alexander W NAGY

Signature: Alexander W Nagy

Title: Assistant Plant MGR

Date: 4/5/90

DEQ051961

MSP Form 1040-R (November 89)

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US v. MSP Releasable PRODUCED BY MSP 9/93 REQUEST

MSD054

2048

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US V. MSP
PRODUCED BY MSP 9/93
REQUEST Releasable

SP 5223

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 WR Grace
Site Address 10 Harmony Street
City Adams State MA Zip Code 01220
Generator Contact Alex Nagy
Title Asst. Plant Mgr.
Telephone No. (413) 743-0546
Facility EPA I.D. No. MAD 002 081 651

B. Customer Information

Company Name GSX Northeast
Contact Kim Ellison
Address 221 Sutton Street
Telephone No. (508) 683-1002
For Customer Use

C. Regulatory Information

X 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
toluene	10	15
methyl ethyl ketone	1	2
1-nitropropane	<1	
rubber } polyethylene, rags, cups }	80	90
Speedi dry	0	10

Common Name of Waste: Contaminated debris + rags

E. General Characteristics

Color: Varies
Odor: ☐ None X Mild ☐ Strong
☐ Liquid ☐ Sludge X Solid ☐ Powder
Phases ☐ Single Layer ☐ Double Layer X 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 %): <5
BTU's per lb (list actual value): 8000 - 10,000
Water (Wt %): X <1 ☐ 5-10 ☐ 1-5 if > 10 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 21.0
Viscosity (for bulk liquids only) list actual in centipoise _____ cp
Total Suspended Solids (Wt %-for bulk liquids only): ☐ 5-20 if > 20 list actual _____
pH: ☐ 2-6 X 6-10 ☐ 10-12.5 if < 2 or > 12.5 list actual 7

Flash Point (closed cup): ☐ < 100°F ☐ > 200°F ☐ 100°-140°F X 470 °F ☐ 140°-200°F actual
Sulfur (Wt %): X < 5 if > 5 list actual value _____

Halogens (Wt %):

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

Metals: EP Toxicity Test (MG/L)

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

DEQ051962

MSD054

2049

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H. Notes, Additional Information or Special Handling Instructions

Generating Process: Manufacturing printing blankets

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 solid, n.o.s. DOT I.D. No. (circle one) (UN)/NA UN 1325

Hazard Class Flammable Solid RQ

Anticipated Volume 40-50 (Drums) Gal Yds Lbs ☐ Bulk? no ☐ Roll? no

Container Size 55gallon Container Type 17H x 55

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. Alexander W Sagy
Generator's Signature

2. Alexander W SAGY
Name (Type or Print)

3. 4/17/90
Date

4. Assistant Plant Manager
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.

DEQ051963

MSP Form 1040 II Rev. 1089

MSD054

2090

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MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

MCDS Document # 8902237

SALES (504) 465-3310

MSP CODE: NES/GWEC/8902237

8902237 APR 27 1989 COPY

Generator Name W.R. Grace Co.
Facility Address 10 Harmony St.
City, State, Zip Adams, MA 01220
Technical Contact Al Nagy
Title Prod. Plant Mgr.
Telephone NO. (413) 743-0546 EXT:
Facility EPA ID # MAD 003 051 651

Bill To: North East Solvents Corp.
Company Contact: Kim Ellison
Container Size: 17H x 55
EPA Waste No. F005
Generating Process Mfg. Printing Blankets
Common Name of Waste Contaminated debris + rags
Rate of Generation 40-50 drums PER 90 days
Volume in Storage ____ (Quan) (Units) IN ____ (Container Size and Type)
Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name RQ waste, Flammable solid, n.o.s.
Hazard Class Flammable Solid ID No. UN 1325
Transportation Equipment Box Van
Placarding Flammable Liquid Solid

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Solvent	10-15	%
Oil and Ink Binders	1-2	%
Paper/Rags	21	%
Rubber	80-90	%
Polyethylene rags, cups		%
		%
Speedi-dry	0-10	%

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	None	Silver (Ag)	None
Barium (Ba)		Copper (Cu)	
Cadmium (Cd)		Nickel (Ni)	
Chromium (Cr)		Zinc (Zn)	
Lead (Pb)			
Mercury (Hg)			
Selenium (Se)			

INORGANICS (mg/l or ppm)

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

ORGANICS (mg/l or ppm)

Endrin	None	Organohalide	None
Methoxychlor		Mercaptans	None
Toxaphene			
2,4-D			
2,4,5-T			
Phenolics			
PCBs			
Dioxin			
TOC			

PHYSICAL DESCRIPTION

Physical State	[ ] Liquid	[ ] Semi-solid	[X] Solid	
Phases/Layering	[ ] Uni-Layer	[ ] Bilayer	[X] Multilayer	
Viscosity	[ ] High	[X] Medium	[ ] Low	
Type of Solids	[X] Organic	[ ] Inorganic	[ ] Mixed	

Total Solids (wt. %) 100 Suspended Solids (wt. %) ~0
BTU/lb 8-12,000 % Ash Content 25 % Water (by weight) ~0
Flash Point (F) <70 Type
Specific Gravity 0.8-1.0 > 1.0
Boiling Point, (C) N/A Freezing Point, (C) N/A
Vapor Pressure (mm Hg @ 24°C) N/A
pH (Avg) N/A 7 (Range) 4 to 10
Total Alkalinity/Acidity (%) <1
Odor Mild
Color Varies

HAZARDOUS PROPERTIES

[ ] Water Reactive	[ ] Reactive	[X] NONE	
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Explosive	
[ ] Radioactive	[ ] Pesticide Residuals	[ ] Polymriable	
[ ] Corrosive	[ ] Toxic Vapor	[X] Ignitable	
[ ] Biological	[ ] Etiological	[ ] Pathogen	
[ ] 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 4/12/89 GENERATOR'S SIGNATURE: Alexander L Nagy

DEQ051964

U.S. V. MSP PRODUCED BY MSP 9/93 Releasable REQUEST # ____ BOX 5 Waste characterization forms

MSD054

2051

8904667

MARINE SHIELD PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

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

MCDS Document # _____

AUG 28 1989

NES GWRC 8904667

MISP CODE: _____

Generator Name W.R. Grace & Co
Facility Address 1 Hassoxey Street
City, State, Zip Adams, MA 01220
Technical Contact Alex Nagy
Title Asst. Plant Mgr.
Telephone NO. (413) 743-1556 EXT: _____
Facility EPA ID # MAD002081651

Bill To: North East Solvents
Address: 221 Suttrasst
City, State, Zip: No Andover MA 01845
Telephone #: 508-683-1000
Company Contact: Kim Ellison
Container Size: 55 gal drums
EPA Waste No. F005
Generating Process Contaminated rags
Common Name of Waste MFG printing blankets
Rate of Generation 2-3 (Pounds / Gallons) PER quarter (Time Interval: Hour, Day, Week, Month, Year)
Volume in Storage 5 (Pounds / Gallons) IN 55 gallon drums (Container Size and Type)

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

	%
Rags	98 %
Toluene/Oils/Antioxidant	2 %
	%
	%
	%
	%
	%

Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name Combustible Flam Solids
Hazard Class Flam ID No. UN1325
Transportation Equipment Box Van
Placarding Flammable Solid

METALS (EP Toxicity Test, mg/l)

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

INORGANICS (mg/l or ppm)

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

ORGANICS (mg/l or ppm)

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

PHYSICAL DESCRIPTION

Physical State	[ ] Liquid		[ ] Semi-solid		[X] Solid		
Phases/Layering	[X] Uni-Layer		[ ] Bilayer		[ ] Multilayer		
Viscosity	[ ] High		[X] Medium		[ ] Low		
Type of Solids	[ ] Organic		[X] Inorganic		[ ] Mixed		

Total Solids (wt. %) 90 Suspended Solids (wt. %) 0
BTU/lb (DRY) % Ash Content 25 % Water (by weight) 5
Flash Point (°F) >90 Type TOC
Specific Gravity 1.0-1.3
Boiling Point, (°C) N/A Freezing Point, (°C) N/A
Vapor Pressure (mm Hg @ 24°C) N/A
pH (Avg) 7 (Range) 4 to 10
Total Alkalinity/Acidity (%) 5
Odor Solvent, Strong
Color Varies

HAZARDOUS PROPERTIES

[X] NONE			
[ ] Water Reactive	[ ] Reactive	[ ] Explosive	
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Polymerizable	
[ ] Radioactive	[ ] Pesticide Residuals	[X] 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.

DEQ051965

DATE 8/23/89 GENERATOR'S SIGNATURE: Alexander W Nagy

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US V. NSP PRODUCED BY NSP 9/93 Releasable

MSD054

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

RECYCLE / REUSE

MANIFEST Nº 016657

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

Please print or type. (Form designed for use on elite (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
Cycle Chem, Inc.
217 S. First St. Elizabeth, NJ 07206

4. Generator's Phone (201) 355-5800

A. State Manifest Document Number

B. State Generator's ID
same

C. State Transporter's ID NJDEPS5811

D. Transporter's Phone 201-442-4900

E. State Transporter's ID

F. Transporter's Phone

G. State Facility's ID

H. Facility's Phone (504) 631-3161

5. Transporter 1 Company Name
Clean Venture, Inc.

6. US EPA ID Number

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 LAD981057706

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. RQ Waste Flammable Solid,n.o.s. Flammable ~~XXXXX~~ Solid,UN1325 (D001)	X10	DM	X51000	P	C R D001
b. RQ Waste Flammable Solid,n.o.s. Flammable Solid,UN1325 (F001,F002,F003,F005)	08 X11	DM	4000 X6600	P	F001,F002 F003 R F005
c. RQ Waste Flammable Liquid,n.o.s. Flammable Liquid,UN1993 (F002,F003,F005)	XX7	DM	X3600	P	F002 F003 R F005
d. RQ Waste Flammable Liquid,n.o.s. Flammable Liquid,Un1993 (F003,F005)	X12	DM	X6000	P	F003 R F005

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
a) S,I 100% virgin paint solids
b) S,I,T 100% mixed solvent contaminated debris
c) L,I,T 100 % paint solids
d) L,I,T 100%spent paint solvent based

K. Handling Codes for Wastes Listed Above
a) T04 Recycle
b) T04 Recycle
c) T04 Recycle
d) T04 Recycle

15. Special Handling Instructions and Additional Information POT# 5327 POD# 5326 PLAT# T418mC DECAL# 43149
a) CYC-8705103
b) CYC-8800417
c) CYC-8904809
d) CYC-8901552

IF UNABLE TO DELIVER, RETURN TO GENERATOR Emergency after hours f201-442-4900

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: Todd Meyer | Signature: Todd Meyer | Month Day Year: 06 27 90

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: LEE Hassenbuhler | Signature | Month Day Year: 12 15 90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name | Signature | Month Day Year

19. Discrepancy Indication Space
11B) Account quantity were changed As per instructions of Todd Meyer. (SJ)
to reflect the above.
DEQ051966

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: DAVID SMITH | Signature | Month Day Year: 12 15 90

EPA Form 8700-22 (Rev. 9-88) WHITE – DEQ GREEN – Generator YELLOW – 1SDRF BLUE – Transporter 2 PINK – Transporter 1 GOLD – Generator

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US v. MSP PRODUCED BY MSP 9/93 Releasable

BOX 15 Waste Manifests

MSD054

2059

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

RECYCLE / REUSE

MANIFEST Nº 016656

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. N J D 0 0 2 2 0 0 0 4 6 — Manifest Doc. No. 27178
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
a Cycle Chem, Inc.
217 S. First ST. ELizabeth, NJ 07206

4. Generator's Phone (201) 355-5800

A. State Manifest Document Number
B. State Generator's ID: same
C. State Transporter's ID: NJDEPS5811
D. Transporter's Phone: 201-442-4900
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID:
H. Facility's Phone: (504) 631-3161

5. Transporter 1 Company Name: Clean Venture, Inc.
6. US EPA ID Number: N J D 9 8 2 2 8 1 0 1 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)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. RQ WAste Gasoline Mixture Flamable Liquid,UN1203 (D001)	X15	DM	X175010	P	NRM (NH) R ~~D001~~
b. Waste Petroleum Mixture Solid NON DOT/Non RCRA Waste Material	X111	DM	6550 X55010	P	NRM (K) R X725
c. RQ Waste Flammable Liquid,n.o.s. Flammable Liquid,UN1993 (D001,D007,D008)	XX14	DM	X120100	P	D001 D007 R D008
d. ~~RQ Waste Flammable Liquid,n.o.s. Flammable Liquid,UN1993 (D001,D006,D008,F002,F003,F005)~~ (TM) NO MATERIAL SENT HERE	1 B	DM	REJECT 1500	P	D006,D001 D008,F005 F002,F003

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
a) L,I 100% gas contaminated debris
b) S,T 100% oil with dirt
c) L,I,E 100% apint with metal filings
~~d) L,I,E,T 100% spent solvent waste sludge~~ (TM)

K. Handling Codes for Wastes Listed Above
a) T04 Recycle
b) T04 Recycle
c) T04 Recycle
d) T04 Recycle

15. Special Handling Instructions and Additional Information
POD# 5326 POE# 5327 PLATE# T418ML DECAL# 43149
a) CYC-8901074
b) CYC-8902320 4x55, 7x85
c) CYC-8906165
~~d) CYC-8901179~~ (TM)
DEQ051967
IF UNABLE TO DELIVER, RETURN TO GENERATOR Emergency #201-442-4900

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: Todd Meyer — Signature: Todd Meyer — Month Day Year: 10/12/90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Lee Macneill — Signature: Lee Macneill — Month Day Year: 10/12/90

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: — Signature: — Month Day Year:

FACILITY

19. Discrepancy Indication Space
11B) X725 IS A New Jersey regulatory number. (NH) 11A) Waste code D001 was deleted during NRM was inserted as per instructions stated in letter. DO Rejected(TM) Item returned per instructions stated in letter dated 10/10/90 from Mr. Dan Barmen. Date shipped 10/17/90

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Dan Barmen. — Signature: [illegible] — Month Day Year: 10/30/90

EPA Form 8700-22 (Rev. 9-85) WHITE – DEQ. GREEN – Generator. YELLOW – 1 SDRF. BLUE – Transporter 2. PINK – Transporter 1. GOLD – Generator

US v. MSD
PRODUCED BY MSD 9/93
Releasable
BOX 5 Manifests
REQUEST Hazardous Waste Manifests

MSD054

2069

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

RECYCLE / REUSE

MANIFEST Nº 016763

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

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NJD002200046 Manifest Document No. 12777 2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Cycle Chem, Inc.
217 S. First St. Elizabeth, NJ 07206
4. Generator's Phone (201) 355-5800

A. State Manifest Document Number
B. State Generator's ID same

5. Transporter 1 Company Name: Clean Venture, Inc. — 6. US EPA ID Number: NJD982282101 6
C. State Transporter's ID NJDEPS5811
D. Transporter's Phone 201-442-4900
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: LAD981051770 6
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. RQ Hazardous WAste Solid,n.o.s. ORM-E,NA9189 (F002)	XX 2	DM	X11010	P	ORM (X) F002 (X)
b. Waste Chemical Process Solid,n.o.s. Non DOT/Non RCRA WAste Material	XX 3	DM	X11500	P	NRM (X) R X910
c. RQ Waste Combustible Liquid,n.o.s. Combustible Liquid,NA1993 (D001)	XX 2	DM	X11150	P	R D001
d.					R

GENERATOR

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
a) S,T 100% spent chlorinated solvent contaminated debris
b) S vinyl acetate 10-15%,dirt/debris 85-90%
c) L,I 100% assorted virgin glues, resins and paints

K. Handling Codes for Wastes Listed Above
a) T04 Recycle
b) T04 Recycle
c) T04 Recycle

15. Special Handling Instructions and Additional Information POT# 5337 POD# 5336 PLATE# T418ML DECAL# 43149
a) CYC8802281
b) CYC8508121
c) CYC-8802019 L (1x55, 1x85)
IF UNABLE TO DELIVER, RETURN TO GENERATOR Emergency after hours # 201-442-4900

DEQ051968

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: Todd Meyer — Signature: Todd Meyer — Month Day Year: 06 12 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DEE MASSEY — Signature — Month Day Year: 06 17 90
18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY

19. Discrepancy Indication Space
11B) X910 is a NewJersey regulatory number. (X)
11A) Waste code F002 deleted, and NRM used as per instruction of Todd Meyer in QA

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Ken Trosper — Signature — Month Day Year: 06 27 90

EPA Form 8700-22 (Rev. 9-88) WHITE - DEQ GREEN - Generator YELLOW - TSDRF BLUE - Transporter 2 PINK - Transporter 1 GOLD - Generator

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

PRODUCED BY MSP 9/93 Releasable

MSD054

2059

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

RECYCLE / REUSE

MANIFEST Nº 016764

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. | N J D 0 0 2 2 2 0 0 0 4 6 | Manifest Document No. 12712

2. Page 1 of 1 | Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
Cycle Chem, Inc.
217 S. First St. Elizabeth, NJ 07206

4. Generator's Phone (201) 355-5800

A. State Manifest Document Number

B. State Generator's ID same

C. State Transporter's ID NJDEPS5811

D. Transporter's Phone 201-442-4900

5. Transporter 1 Company Name: Clean Venture, Inc. | 6. US EPA ID Number: N J D 9 8 2 2 8 1 0 1 1 6

E. State Transporter's ID

7. Transporter 2 Company Name | 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 | 10 US EPA ID Number: L A D 9 8 1 0 5 7 7 0 6

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.	I. Waste No.
a. ~~(TR) Waste Glacial Acetic Acid Corrosive Material UN2789 (D002)~~ NO MATERIAL SENT HERE	02	DF	4100 5000	P	R D002
b. Waste Oxidizer,n.o.s. Oxidizer UN1479 (D007,D001,F002)	X X	DF	X X 5 0	P	D007 D001 R F002
c. Waste Trichloroacetic Acid Corrosive Material, UN1839 (D002)	X 1 6	DF	1 0 0 1500	P	R D002
d. RQ WAste Corrosive Solid,n.o.s. Corrosive Material, UN1759 (D002)	1 1	DF	X X 1 0 0	P	R D002

J. Additional Descriptions for Materials Listed Above (TR) RECYCLE / REUSE
~~a) L,C 100% glacial acetic~~
b) L,I,T;E Dirt/debris 20-60%,paint 20-40%,zinc chromate pigments<2%,Meth-chloride <10%
c) S,C 100% trichloroacetic acid
d) S,C Benzoyl chloride 50-60%,hydrochloric acid 10-25%

K. Handling Codes for Wastes Listed Above
a) T04 Recycle
b) T04 Recycle
c) T04 Recycle
d) T04 Recycle

15. Special Handling Instructions and Additional Information POD# 5326 POT# 5326 PLATE# 748mL DECAL# 43149
~~a) CYC-8900519DFO~~ (TR)
b) CYC-8900519DFO
c) CYC-8900837DFO
d) CYC-8900058DFO (1x16)
IF UNABLE TO DELIVER, RETURN TO GENERATOR Emergency #201-442-4900

DEQ051969

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.
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Printed/Typed Name	Signature	Month Day Year
Todd Meyer	Todd Meyer	10 5 12 7 90

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
Lee Mancuso	Lee Mancuso	10 5 12 7 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

FACILITY

19. Discrepancy Indication Space
11a) Manifest changed on quantity and waste codes. 11a,b,c,d) Added Meyer. 11a,b,c,d) inserted per your instructions. 11a,b,c,d) Added Meyer. to reflect above. 11a,b,c,d) Initialed and dated by generator. Marianne Rea in Baton Rouge. Todd Meyer.

20. 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
[illegible]	[illegible]	10 31 90

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

US v. MSP PRODUCED BY MSP 9/93 Releasable

REQUEST Waste characterization

MSD054

2056

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

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

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

MCDS Document # 5240 89-6165

NOV 30 1989

MSP CODE: CYC/CYC/89061165

Generator Name: Cycle Chem, Inc
Facility Address: 217 South First St.
City, State, Zip: Elizabeth, NJ 07206
Technical Contact: Scott Bury
Title: Disposal Coordinator
Telephone NO. (201) 355-5800 EXT:
Facility EPA ID #: NJD002200046

Bill to: Same
Address:
City, State, Zip:
Telephone #:
Company Contact: Scott Bury
Container Size: 55 gallon
EPA Waste No. D001, D007, D008
Generating Process: Unused product
Common Name of Waste: paint sludge, metal filings
Rate of Generation: 20 (drums) drums PER Quarter (time intervals)
Volume in Storage: — (drums) (drums) IN — (containers box and liners)

Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name RQ Waste Flammable Liquid, nos
Hazard Class Flammable Liquid ID No. UN1993
Transportation Equipment —
Placarding —

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Paint	92-98 %
metal filings	2-8 %
	%
	%
	%
	%
	%

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	<5.0	Silver (Ag)	<5.0
Barium (Ba)	<100	Copper (Cu)	N/S
Cadmium (Cd)	<1.0	Nickel (Ni)	↓
Chromium (Cr)	78.0*	Zinc (Zn)	↓
Lead (Pb)	52.7*		
Mercury (Hg)	<0.2		
Selenium (Se)	<1.0		

INORGANICS (mg/l or ppm)

Total CN	N/S	Iodine	N/S
Free CN	↓	Asbestos	↓
Sulfide			
Chloride			
Bisulfite			
Sulfite			
Sulfate			
Phosphate			
Fluorine			
Bromine			
Chlorine	↓		

ORGANICS (mg/l or ppm)

Endrin	N/S	Organohalide	N/S
Methoxychlor	↓	Mercaptans	↓
Toxaphene			
2,4-D			
2,4,5-T			
Phenolic(s)			
PCBs			
Dioxin	↓		
TOC	400,000		

PHYSICAL DESCRIPTION

Physical State	[ ] Liquid	[X] Semi-solid	[ ] Solid	
Phases/Layering	[X] Uni-Layer	[ ] Bilayer	[ ] Multilayer	
Viscosity	[X] High	[ ] Medium	[ ] Low	
Type of Solids	[X] Organic	[ ] Inorganic	[ ] Mixed	

Total Solids (wt. %) 90 Suspended Solids (wt %) —
BTU/lb 7K % Ash Content 70 % Water (by weight) —
Flash Point (°F) 95 Type CC
Specific Gravity 0.91
Boiling Point (°C) — Freezing Point (°C) —
Vapor Pressure (mm Hg @ 24°C) <.63
pH (Avg) 7 (Range) 6 to 8
Total Alkalinity/Acidity (%) —
Odor —
Color —

HAZARDOUS PROPERTIES

[ ] NONE		
[ ] Water Reactive	[ ] Reactive	[ ] Explosive
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Polymerizable
[ ] Radioactive	[ ] Pesticide Residuals	[X] Ignitable
[ ] Corrosive	[ ] Toxic Vapor	[ ] Pathogen
[ ] Biological	[ ] Etiological	
[ ] Other		

DEQ051970

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 11/27/89 GENERATOR'S SIGNATURE: Howard Zimmerman

MSP FORM 1046 (REV. FEB 88)

US V. MSP PRODUCED BY MSP 9/93 Releasable REQUEST # ____ Box 5 Unless otherwise noted, white header sheets

MSD054

2057

...TERIALS CHARACTERIZATION DATA SHEET
JAN 2 4 1990 7210
CYC/CYC/84 0000 1
USA CODE:

RECERTIFICATION OF MATERIAL CHARACTERIZATION DATA SHEET

MSP Approval Code

Date printed: 12/04/89 Rep.ID: MJJ

CYC /CYC /89000577 /DFO

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: CYCLE CHEM
Telephone: (201) 355-5800 x.0000
Facility Address: 217 SOUTH FIRST STREET
USEPA ID: NJD002200046
ELIZABETH, NJ 07206-0000
Name of Waste: TRICHLOROACETIC ACID
Generating Process:
Technical Contact: MR. SCOTT BURY
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:

DEQ051971

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) 5 gal poly

Anticipated Volume: ____ Gals. ____ Cubic Yds. 10 Other dr

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: W Scott Bury
Signature: W Scott Bury
Title: Disp. Coor.
Date: 12/26/89

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

US V. MSP Releasable
PRODUCED BY MSP 9/93
REQUEST
Waiting for address - Waste water
BOX
MSD054
2058

RECERTIFICATION OF MATERIAL CHARACTERIZATION DATA SHEET

MSP Approval Code: CYC /CYC /890005B/ /DFO

Date Printed: 12/04/89 Rep. ID: MJJ

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: CYCLE CHEM
Telephone: (201) 355-5800 x.0000
Facility Address: 217 SOUTH FIRST STREET
USEPA ID: NJD002200046
ELIZABETH, NJ 07206-0000
Name of Waste: BENZOYL CHLORIDE
Generating Process:
Technical Contact: MR. SCOTT BURY
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:

DEQ051972

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) 5 gal poly

Anticipated Volume: _____ Gals. _____ Cubic Yds. 10 Other bx

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: W Scott Bury
Signature: W Scott Bury
Title: Disp. Coor.
Date: 12/26/89

MSP Form 1040 - R (October 1987)

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

US v. MSP Releasable
PRODUCED BY MSP 9/93
REQUEST

MSD054

2059

MATERIALS CHARACTERIZATION — DIRECT FEED ONLY

MCDS Document #

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

MSP CODE: 8900058

C4C/C4C/8900058/DFO

JAN 20 1989

Generator Name: cycle chem, INC
Facility Address: 217 South First St
City, State, Zip: Elizabeth, NJ 07206
Technical Contact: Scott Bury
Title: Disposal Coordinator
Telephone NO. (201) 355-5800 EXT: —
Facility EPA ID #: NJD002200046

Bill To: SAME
Company Contact: SAME
Container Size: ND 20 gal poly
EPA Waste No. D002
Generating Process: OLD product
Common Name of Waste: Benzyl Chloride
Rate of Generation: 5 (Quan) drums (Units) PER 1 time (Time Interval)
Volume In Storage: 0 (Quan) 0 (Units) IN: C (Container Size and Type)
Is Waste DOT Hazardous: [X] YES [ ] NO
Proper DOT Shipping Name: Waste Corrosive Solid, NOS
Hazard Class: Corr Mat'l ID No.: UN1759
Transportation Equipment: —
Placarding: Corrosive

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%) W/W

Benzyl Chloride	50-60 %
Formic Acid	10-25 %
Hydrochloric Acid	10-25 %
Hydrocarbons	15-30 %
	%
	%
	%

METALS (EP Toxicity Test, mg/l)

NS = None suspected

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

INORGANICS (mg/l or ppm)

Total CN	0	Iodine	0
Free CN	0	Asbestos	0
Sulfide	0		
Chloride	10%		
Bisulfite	0		
Sulfite			
Sulfate			
Phosphate			
Flourine			
Bromine			
Chlorine			

ORGANICS (mg/l or ppm)

Endrin	0	Organohalide	0
Methoxychlor		Mercaptans	0
Toxaphene			
2,4-S			
2,4,5-T			
Phenolics)			
PCBs			
Dioxin			
TOC	300K		

PHYSICAL DESCRIPTION

Physical State	[ ] Liquid	[ ] Semi-solid	[X] Solid		
Phases/Layering	[X] Uni-Layer	[ ] Bilayer	[ ] Multilayer		
Viscosity	[X] High	[ ] Medium	[ ] Low		
Type of Solids	[ ] Organic	[ ] Inorganic	[X] Mixed		

Total Solids (wt. %): 100 Suspended Solids (wt. %): 100
BTU/lb: <3K % Ash Content: 50-60 % Water (by weight): <5
Flash Point (°F): >140°F Type: open
Specific Gravity: 1.1 NS
Boiling Point, (°C): — Freezing Point, (°C): —
Vapor Pressure (mm Hg @ 24°C):
pH (Avg): 1 (Range): 0 to 2
Total Alkalinity/Acidity (%):
Odor: pungent
Color: white

HAZARDOUS PROPERTIES

[ ] Water Reactive	[ ] Reactive	[ ] NONE
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Explosive
[ ] Radioactive	[ ] Pesticide Residuals	[ ] Polymriable
[X] Corrotive	[ ] Toxic Vapor	[ ] Ignitable
[ ] Biological	[ ] Etiological	[ ] Pathogen
[ ] Other		

DEQ051973

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: 1-19-88 GENERATOR'S SIGNATURE: W Scott Bury

MSP SIGNATURE (REQUIRED): 1-19-88

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MSD054

2060

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RECERTIFICATION OF MATERIAL CHARACTERIZATION DATA SHEET

MSP Approval Code: CYC /CYC /B900519/ /DFO

Date printed: 12/20/89 Rep.ID: MJJ

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: CYCLE CHEM

Telephone: (201) 355-5800 x.0000

Facility Address: 217 SOUTH FIRST STREET

USEPA ID: NJD002200016

ELIZABETH, NJ 07206-0000

Name of Waste: OXIDIZER DEBRIS

Generating Process:

Technical Contact: MR. SCOTT BURY

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:

DEQ051974

OK/ddb

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) 30 gal poly

Anticipated Volume: _____ Gals. _____ Cubic Yds. 10 Other dr

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: W Scott Bury

Signature: W Scott Bury

Title: Disp. Coor.

Date: 1/5/90

MSP Form 1040-R (November 89)

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

Box 5 Waste Analysis Plan MSDS

MSD054

201

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MATERIALS CHARACTERIZATION DATA SHEET

MCDS Document # 8900519

SALES (504) 765-3310
PLANT (504) 631-3626

JAN 20 1989

cyc / cyc / 8900519 / DFF
MSP CODE:

COPY DIRECT FEED ONLY

Generator Name: cycle chem, inc.
Facility Address: 217 South First St
City, State, Zip: Elizabeth, NJ 07206
Technical Contact: Scott Burg
Title: Disposal Coordinator
Telephone NO. (201) 355-5800 EXT: —
Facility EPA ID #: NJD002200046

Bill To: SAME
Company Contact: SAME
Contanier Size: 30 Gallon
EPA Waste No. D007, D001, F002
Generating Process: cleaning of spray booth
Common Name of Waste: OXIDIZER DEBRIS
Rate of Generation: 10 (Quan) drums (Units) PER quarter (Time Interval)
Volume in Storage: 10 (Quan) drums (Units) IN 30 gal poly (Container Size and Type)
Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name: WASTE OXIDIZER, N.O.S.
Hazard Class: OXIDIZER ID No. UN 1479
Transportation Equipment:
Placarding: OXIDIZER

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

PAPER, FIBERS, DEBRIS	20-60 %
Enamel based paints	20-40 %
methylene chloride	<10 %
zinc chromate pigments	<2 %
	%
	%
	%

METALS (EP Toxicity Test, mg/l)

NS = None suspected

Arsenic (As)	NS	Silver (Ag)	NS
Barium (Ba)		Copper (Cu)	
Cadmium (Cd)		Nickel (Ni)	
Chromium (cr)	5-35	Zinc (Zn)	<50
Lead (Pb)	NS		
Mercury (Hg)			
Selenium (Se)			

INORGANICS (mg/l or ppm)

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

ORGANICS (mg/l or ppm)

Endrin	NS	Organohalide	NS
Methoxychlor		Mercaptans	NS
Toxaphene			
2, 4-5			
2,4,5-T			
Phenolic(s)			
PCBs			
Dioxin			
TOC	100K		

PHYSICAL DESCRIPTION

Physical State	[ ] Liquid	[ ] Semi-solid	[X] Solid
Phases/Layering	[X] Uni-Layer	[ ] Bilayer	[ ] Multilayer
Viscosity	[X] High	[ ] Medium	[ ] Low
Type of Solids	[ ] Organic	[ ] Inorganic	[X] Mixed

Total Solids (wt. %) 100 Suspended Solids (wt. %) 100
BTU/lb BK % Ash Content 60 % Water (by weight) <5
Flash Point (°F) >200 Type open
Specific Gravity 1.2
Boiling Point (°C) — Freezing Point (°C) —
Vapor Pressure (mm Hg @ 24°C)
pH (Avg) 7 (Range) 5 to 9
Total Alkalinity/Acidity (%)
Odor paint
Color grey

HAZARDOUS PROPERTIES

[ ] NONE			
[ ] Water Reactive	[ ] Reactive	[ ] Explosive	
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Polymriable	
[ ] Radioactive	[ ] Pesticide Residuals	[ ] Ignitable	
[ ] Corrotive	[ ] Toxic Vapor	[ ] Pathogen	
[ ] Biological	[ ] Etiological		
[ ] Other OXIDIZER CONSTITUENT			

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 1-19-89 GENERATOR'S SIGNATURE: W Scott Burg

MSP FORM 1849 (REV. JUNE/87)

Sgal drums pdlg

DE0051975

MSD054

2062

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US V. MSP Releasable PRODUCED BY MSP 9/93 REQUEST ... BOX ... INSTRUCTIONS ...

MSD054 2063

FEB MAR 6 8 1990

RECERTIFICATION OF MATERIAL CHARACTERIZATION DATA SHEET

MSP Approval Code: CYC /CYC /B9002320/ /

Date printed: 4/02/90 Rep.ID: ERQ

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: CYCLE CHEM

Telephone: (201) 355-5800 x.0000

Facility Address: 217 SOUTH FIRST STREET

USEPA ID: NJD002200046

ELIZABETH, NJ 07206-0000

Name of Waste: OIL WITH DIRT

Generating Process: _____

Technical Contact: MR. HOWARD ZIMMERMAN

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:

DEQ051976

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 17-H

Anticipated Volume: 10 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: Howard Zimmerman Signature: Howard Zimmerman

Title: Disposal Coordinator Date: 4-16-90

MSP Form 1040-R (November 89)

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

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

MCDS Document # 8902320

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

MSP CODE: _____

MAY 01 1989

Generator Name: cycle chem inc
Facility Address: 217 South First St
City, State, Zip: Elizabeth NJ 07206
Technical Contact: Howard Zimmerman
Title: Disposal Coordinator
Telephone NO. (201) 355-5900 EXT:
Facility EPA ID #: NJD002200046

Bill To: Same
Company Contact: Scott Bury
Container Size: 17H
EPA Waste No. NONE
Generating Process: Spill cleanup
Common Name of Waste: oil w/ dirt
Rate of Generation: 10 - 12 (Quant) (Units) PER 4 year (Time Interval)
Volume in Storage: 11 (Quant) (Units) IN 11 (Container Size and Type)

Is Waste DOT Hazardous [ ] YES [X] NO
Proper DOT Shipping Name: Waste Petroleum Distillate, liquid
Hazard Class: — ID No.: —
Transportation Equipment: —
Placarding: —

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

OIL	20-40 %
WATER	10-15 %
DIRT + DEBRIS	50-70 %

METALS (EP Toxicity Test, mg/l)

NS = None suspected

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

INORGANICS (mg/l or ppm)

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

ORGANICS (mg/l or ppm)

Endrin	NS	Organohalide	NS
Methoxychlor		Mercaptans	NS
Toxaphene			
2, 4-5			
2,4,5-T			
Phenol(ics)			
PCBs			
Dioxin			
TOC	500K		

PHYSICAL DESCRIPTION

Physical State	[X] Liquid	[X] Semi-solid	[ ] Solid
Phases/Layering	[ ] Uni-Layer	[X] Bilayer	[ ] Multilayer
Viscosity	[ ] High	[X] Medium	[ ] Low
Type of Solids	[X] Organic	[ ] Inorganic	[ ] Mixed

Total Solids (wt. %): 50-70 Suspended Solids (wt. %): 50-70
BTU/lb: 10K % Ash Content: 50 % Water (by weight): <10
Flash Point (°F): >200 Type: open
Specific Gravity: .9
Boiling Point, (°C): — Freezing Point, (°C): —
Vapor Pressure (mm Hg @ 24°C): —
pH (Avg): 7 (Range): 6 to 8
Total Alkalinity/Acidity (%): —
Odor: oil
Color: BROWN

HAZARDOUS PROPERTIES

[ ] Water Reactive	[ ] Reactive	[X] NONE
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Explosive
[ ] Radioactive	[ ] Pesticide Residuals	[ ] Polymriable
[ ] Corrotive	[ ] Toxic Vapor	[ ] Ignitable
[ ] Biological	[ ] Etiological	[ ] Pathogen
[ ] Other		

DEQ051977

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 4-16-90 GENERATOR'S SIGNATURE: Howard Zimmerman

MSP FORM 1040 REV. JUNE 87

US V. MSP PRODUCED BY MSP 9/93 Releasable

MSD054

2064

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

MCDS Document # 8902320

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

MAY 01 1989

CYCKYC/8902320
MSP CODE:

Generator Name: cycle chem inc
Facility Address: 217 South First St
City, State, Zip: Elizabeth NJ 07206
Technical Contact: Scott Bury
Title: Disposal Coordinator
Telephone NO. (201) 355-5800 EXT:
Facility EPA ID #: NJD002200046

Bill To: SAME
Company Contact: Scott Bury
Container Size: 17H
EPA Waste No. NONE
Generating Process: spill cleanup
Common Name of Waste: oil w/ dirt
Rate of Generation: 10 (Quan) - (Units) PER 1 year (Time Interval)
Volume in Storage: 11 (Quan) / (Units) IN (Container Size and Type)

Is Waste DOT Hazardous [ ] YES [X] NO
Proper DOT Shipping Name: waste petroleum Mixture/Emulsion
Hazard Class — ID No. —
Transportation Equipment —
Placarding —

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

OIL	20-40 %
WATER	10-15 %
DIRT + DEBRIS	50-70 %
	%
	%
	%
	%
	%

METALS (EP Toxicity Test, mg/l)

NS = NONE suspected

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

INORGANICS (mg/l or ppm)

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

ORGANICS (mg/l or ppm)

Endrin	NS	Organohalide	NS
Methoxychlor		Mercaptans	NS
Toxaphene			
2,4-5			
2,4,5-T			
Phenol(ics)			
PCBs			
Dioxin			
TOC	5000		

PHYSICAL DESCRIPTION

Physical State	[X] Liquid	[X] Semi-solid	[ ] Solid
Phases/Layering	[ ] Uni-Layer	[X] Bilayer	[ ] Multilayer
Viscosity	[ ] High	[X] Medium	[ ] Low
Type of Solids	[X] Organic	[ ] Inorganic	[ ] Mixed

Total Solids (wt. %) 50-70 Suspended Solids (wt. %) 50-70
BTU/lb 10K % Ash Content 50 % Water (by weight) <10
Flash Point (°F) >200 Type open
Specific Gravity .9
Boiling Point, (°C) — Freezing Point, (°C) —
Vapor Pressure (mm Hg @ 24°C)
pH (Avg) 7 (Range) 6 to 8
Total Alkalinity/Acidity (%)
Odor oil
Color BROWN

HAZARDOUS PROPERTIES

[X] NONE			
[ ] Water Reactive	[ ] Reactive	[ ] Explosive	
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Polymriable	
[ ] Radioactive	[ ] Pesticide Residuals	[ ] Ignitable	
[ ] Corrotive	[ ] Toxic Vapor	[ ] Pathogen	
[ ] Biological	[ ] Etiological		
[ ] Other			

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES: DEQ051978

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 4/26/89 GENERATOR'S SIGNATURE: W Scott Bury

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US v. MSP
PRODUCED BY MSP 9/93
Releasable
REQUEST #
DOCUMENTS: 5 Waste Characterization Sheets

MSD054

2065

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MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

SALES (504) 465-3310

MCDS Document # 8802271

MAR 25 '88

MSP CODE: CYC|CYC|8802271

Generator Name: Cycle Chem, Inc.
Facility Address: 217 South First St.
City, State, Zip: Elizabeth, N.J. 07206
Technical Contact: Scott Bury
Title: Disposal Coordinator
Telephone NO. (201) 355-5800 EXT:
Facility EPA ID #: NJD002200046

Bill To: Cycle Chem, Inc.
Company Contact: Richard Taylor
Container Size: 55 gallon
EPA Waste No.: F002
Generating Process: Spill of solvents
Common Name of Waste: chlorinated solvent debris
Rate of Generation: 10 (Quan) drums (Units) PER quarter (Time Intervals)
Volume in Storage: 20 (Quan) drums (Units) IN 55 gal. 17H (Container Size and Type)
Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name: RQ HAZARDOUS Waste Solid, n.o.s.
Hazard Class: ORM-E ID No.: NA 9189
Transportation Equipment:
Placarding: N/R

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Methylene Chloride, 1-1-1	%
Trichloroethane, Trichloroethylene,	%
Perchloroethylene, Freon	5-20 %
Dirt, Speedi-dri, Bits,	%
Clothing	80-95 %
	%
	%

METALS (EP Toxicity Test, mg/l) NS - Non-Suspected

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

INORGANICS (mg/l or ppm)

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

ORGANICS (mg/l or ppm)

Endrin	NS	Organohalide	NS
Methoxychlor		Mercaptans	NS
Toxaphene			
2,4-5			
2,4,5-T			
Phenolics)			
PCBs			
Dioxin			
TOC	50-200K		

PHYSICAL DESCRIPTION

Physical State	[ ] Liquid	[ ] Semi-solid	[X] Solid	
Phases/Layering	[X] Uni-Layer	[ ] Bilayer	[ ] Multilayer	
Viscosity	[X] High	[ ] Medium	[ ] Low	
Type of Solids	[X] Organic	[ ] Inorganic	[ ] Mixed	

Total Solids (wt. %): 100 Suspended Solids (wt. %):
BTU/lb 6K % Ash Content <5 % Water (by weight) <5
Flash Point (°F): >200 Type: closed
Specific Gravity: UNK
Boiling Point, (°C): — Freezing Point, (°C): —
Vapor Pressure (mm Hg @ 24°C): <1 mm Hg
pH (Avg) 7 (Range) 6 to 8
Total Alkalinity/Acidity (%):
Odor: Solvent
Color: BROWN

HAZARDOUS PROPERTIES

[ ] Water Reactive	[ ] Reactive	[ ] NONE	
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Explosive	
[ ] Radioactive	[ ] Pesticide Residuals	[ ] Polymriable	
[ ] Corrotive	[ ] Toxic Vapor	[ ] Ignitable	
[ ] Biological	[ ] Etiological	[ ] Pathogen	
[X] Other: IRRITANT			

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

DEQ051979

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 3-21-88 GENERATOR'S SIGNATURE:

U.S. V. MSP PRODUCED BY MSP 9/93 Releasable
MSD054
2068

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US v. MSP Produced by MSP 9/93 Releasable Request

ENTERED FEB 26 1990

RECERTIFICATION OF MATERIAL CHARACTERIZATION DATA SHEET

MSP Approval Code: CYC /CYC /88022717/ /

Date printed: 2/16/90 Rep.ID: ERQ

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: CYCLE CHEM
Telephone: (201) 355-5800 x.0000
Facility Address: 217 SOUTH FIRST STREET
USEPA ID: NJD002200046
ELIZABETH, NJ 07206-0000
Name of Waste: CHLORINATED SOLVENT DEBRIS
Generating Process:
Technical Contact: MR. SCOTT BURY
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:

DEQ051980

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) Steel / 55 gal

Anticipated Volume: 10 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: Howard Zimmerman
Signature: Howard Zimmerman
Title: Disposal Coordinator
Date: 2-21-90

MSP Form 1040-R (November 89)

MSD054 2067

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US V. NSP Releasable
PRODUCED BY NSP 9/93
REQUEST # 5
BOX # 5
MSD054

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

SALES (504) 465-3310

MCDS Document # 880227-1

MAR 25 1988

MSP CODE: _____

Generator Name: Cycle Chem, Inc.
Facility Address: 217 South First St.
City, State, Zip: Elizabeth, N.J. 07206
Technical Contact: Scott Bury
Title: Disposal Coordinator
Telephone NO. (201) 355-5800 EXT: _____
Facility EPA ID #: NJD002200046

Bill To: Cycle Chem, Inc.
Company Contact: Richard Taylor
Container Size: 55 gallon
EPA Waste No.: F002
Generating Process: Spill of solvent
Common Name of Waste: chlorinated solvent mix
Rate of Generation: 10 (Quan) drums (Units) PER quarter (Time Interval)
Volume in Storage: 20 (Quan) drums (Units) IN 55 gal. 17H (Container Size and Type)
Is Waste DOT Hazardous | X | YES | | NO
Proper DOT Shipping Name: RQ HAZARDOUS Waste Solid
Hazard Class: ORM-E ID No.: NA 9189
Transportation Equipment: _____
Placarding: N/R

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Methylene Chloride, 1-1-1 Trichloroethane, Trichloroethylene, Perchloroethylene, FREON	5-20 %
DRY Speedi-dri, BAGS, Clothing	80-95 %
	%
	%

METALS (EP Toxicity Test, mg/l) NS - NON-Suspected

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

INORGANICS (mg/l or ppm)

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

ORGANICS (mg/l or ppm)

Endrin	NS	Organohalide	NS
Methoxychlor		Mercaptans	NS
Toxaphene			
2,4-5			
2,4,5-T			
Phenolics)			
PCBs			
Dioxin			
TOC	50-200K		

PHYSICAL DESCRIPTION

Physical State	| | Liquid		| | Semi-solid	| X | Solid
Phases/Layering	| X | Uni-Layer		| | Bilayer	| | Multilayer
Viscosity	| X | High		| | Medium	| | Low
Type of Solids	| X | Organic		| | Inorganic	| | Mixed

Total Solids (wt. %): 100 Suspended Solids (wt. %): _____
BTU/lb 6K % Ash Content <5 % Water (by weight) <5
Flash Point (°F) 2200 Type: closed
Specific Gravity: UNK
Boiling Point, (°C) _____ Freezing Point, (°C) _____
Vapor Pressure (mm Hg @ 24°C) 2.1 mm Hg
pH (Avg) 7 (Range) 6 to 8
Total Alkalinity/Acidity (%): _____
Odor: Solvents
Color: BROWN

HAZARDOUS PROPERTIES

| | Water Reactive	| | Reactive	| | NONE
| | Shock Sensitive	| | Pyrophoric	| | Explosive
| | Radioactive	| | Pesticide Residuals	| | Polymriable
| | Corrosive	| | Toxic Vapor	| | Ignitable
| | Biological	| | Etiological	| | Pathogen
| X | Other: IRRITANT		

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES: DEQ051981

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 3-21-88 GENERATOR'S SIGNATURE: _____

MSD054
2098

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

SALES (504) 465-3310

MSP CODE: cyc/cyc-8802271

MCDS Document #

8802271 (MSP 25 '88) (A2)

Generator Name: Cycle Chem, Inc.
Facility Address: 217 South First St.
City, State, Zip: Elizabeth, N.J. 07206
Technical Contact: Scott Bury
Title: Disposal Coordinator
Telephone NO. (201) 355-5800 EXT:
Facility EPA ID #: NJD002200046

Bill To: Cycle Chem, Inc.
Company Contact: Richard Taylor
Container Size: 55 gallon
EPA Waste No. F002
Generating Process: Spill of Solvent
Common Name of Waste: Chlorinated Solvent mix
Rate of Generation: 10 drums (Quantity) PER: Quarter (Time Interval)
Volume in Storage: 20 drums (Quantity) IN: 55 gal. 17H (Container Size and Type)
Is Waste DOT Hazardous: [X] YES [ ] NO
Proper DOT Shipping Name: RQ Hazardous Waste, Liquid, n.o.s.
Hazard Class: ORM-E ID No.: NA 9187
Transportation Equipment:
Placarding: N/R

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Methylene Chloride 1-1-1	%
Trichloroethane Trichloroethylene	%
Perchloroethylene, (FREON)	5-20 %
Not specified, PCB's,	%
Chlorine	<0.05 %
	%
	%

METALS (EP Toxicity Test, mg/l) NS - Not Suspected

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

INORGANICS (mg/l or ppm)

Total Cn	NS	Iodine	NS
Free Cn		Asbestos	NS
Sulfide			
Chloride			
Fluoride			
Sulfate			
Sulfite			
Phosphate			
Nitrate			
Ammonia			
Chlorine			

ORGANICS (mg/l or ppm)

Endrin	NS	Organohalide	NS
Methoxychlor		Mercaptans	NS
Toxaphene			
2,4,5			
2,4,5 T			
Phenolics			
PCBs			
Dioxin			
TOC	30,000 K		

PHYSICAL DESCRIPTION

Physical State	[ ] Liquid	[ ] Semi-solid	[X] Solid	
Phases/Layering	[X] Uni-Layer	[ ] Bilayer	[ ] Multilayer	
Viscosity	[X] High	[ ] Medium	[ ] Low	
Type of Solids	[X] Organic	[ ] Inorganic	[ ] Mixed	

Total Solids (wt. %): 100 Suspended Solids (wt. %):
BTU/lb: 6K % Ash Content: <5 % Water (by weight): <5
Flash Point (F): 2000 Type: closed
Specific Gravity: UNK
Boiling Point (°C): — Freezing Point (°C): —
Vapor Pressure (mm Hg @ 24°C): 2.1 mm Hg
pH (Avg): 7 (Range): 6 to 8
Total Alkalinity/Acidity (%):
Odor: Solvent
Color: Brown

HAZARDOUS PROPERTIES

[ ] Water Reactive	[ ] Reactive	[ ] Explosive	[ ] NONE
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Polymerizable	
[ ] Radioactive	[ ] Pesticide Residuals	[ ] Ignitable	
[ ] Corrosive	[ ] Toxic Vapor	[ ] Pathogen	
[ ] Biological	[ ] Etiological		
[X] Other: Toxicant			

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES: DEQ051982

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 material tested are representative of all the materials subject to the contract.

DATE: 3-21-88 GENERATOR'S SIGNATURE: [signature]

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US V. NSP PRODUCED BY NSP 9/93 Releasable REQUEST # 5 Unlisted hazardous waste chemicals

MSD054

2069

ORIGINAL

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

SALES (504) 465-3310

MCDS Document # 6802271

MSP CODE: cyc/cyc-8802271

Generator Name: Cycle Chem, Inc.
Facility Address: 217 South First St.
City, State, Zip: Elizabeth, N.J. 07206
Technical Contact: Scott Bury
Title: Disposal Coordinator
Telephone NO. (201) 355-5800 EXT:
Facility EPA ID #: NJD002200046

Bill To: Cycle Chem, Inc.
Company Contact: Richard Taylor
Container Size: 55 gallon
EPA Waste No.: F002
Generating Process: Spill of solvent
Common Name of Waste: Chlorinated Solvent Drums
Rate of Generation: 10 (Qty) drums (Unit) PER quarter (Time Interval)
Volume in Storage: 20 (Qty) drums (Unit) IN 55 gal. 17H (Container Size and Type)
Is Waste DOT Hazardous: [X] YES [ ] NO
Proper DOT Shipping Name: RQ Hazardous Waste Solid, n.o.s.
Hazard Class: ORM-E ID No.: NA 9189
Transportation Equipment:
Placarding: N/R

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Methylene Chloride, 1-1-1	%
Trichloroethane, Trichlorotrifluoroethane, Perchloroethylene (Combined)	5-20 %
Dirt, Speedi-dri, Rags, Clothing	80-95 %
	%
	%
	%

METALS (EP Toxicity Test, mg/l) NS - Not Suspected

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

INORGANICS (mg/l or ppm)

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

ORGANICS (mg/l or ppm)

Endrin	NS	Organohalide	NS
Methoxychlor		Mercaptans	NS
Toxaphene			
2,4-D			
2,4,5-T			
Phenolics			
PCBs			
Dioxin			
TOC	50-200K		

PHYSICAL DESCRIPTION

Physical State	[ ] Liquid	[ ] Semi-solid	[X] Solid	
Phases/Layering	[X] Uni-Layer	[ ] Bilayer	[ ] Multilayer	
Viscosity	[X] High	[ ] Medium	[ ] Low	
Type of Solids	[X] Organic	[ ] Inorganic	[ ] Mixed	

Total Solids (wt. %): 100 Suspended Solids (wt. %):
BTU/lb 6K % Ash Content <5 % Water (by weight) <5
Flash Point (F): >200 Type: closed
Specific Gravity: UNK
Boiling Point, (C): Freezing Point, (C):
Vapor Pressure (mm Hg @ 20°C): <1 mm Hg
pH (Avg): 7 (Range): 6 to 8
Total Alkalinity/Acidity (%):
Odor: Solvent
Color: BROWN

HAZARDOUS PROPERTIES

[ ] Water Reactive	[ ] Reactive	[ ] NONE	[ ] Explosive
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Polymerizable	
[ ] Radioactive	[ ] Pesticide Residuals	[ ] Ignitable	
[ ] Corrosive	[ ] Toxic Vapor	[ ] Pathogen	
[ ] Biological	[ ] Etiological		
[X] Other: TRACE			

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES: DEQ051983

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 3-21-88 GENERATOR'S SIGNATURE:

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MSD054

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ENTERED FEB 26 1990

RECERTIFICATION OF MATERIAL CHARACTERIZATION DATA SHEET

Date printed: 2/16/90 Rep.ID: ERQ

MSP Approval Code: CYC /CYC /88020197 /

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

YP

A. GENERAL INFORMATION

Generator Name: CYCLE CHEM
Telephone: (201) 355-5800 x.0000
Facility Address: 217 SOUTH FIRST STREET
USEPA ID: NJD002200046
ELIZABETH, NJ 07206-0000
Name of Waste: GLUES, ADHESIVES, PAINTS ETC.
Generating Process:
Technical Contact: MR. SCOTT BURY
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:

DEQ051984

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) _____

Anticipated Volume: 10 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: Howard Zimmerman
Signature: Howard Zimmerman
Title: Disposal Coordinator
Date: 2-21-90

MSP Form 1040-R (November 89)

US v. MSP Releasable
PRODUCED BY MSP 9/93
REQUEST
Box 5 - Letterhead with Waste Manifest
MSD054
2071

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MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

SALES (504) 465-3310

MCDS Document # 8802019

MSP CODE: _____

MAR 17 1988

Generator Name: Cycle Chem, Inc.
Facility Address: 217 South First St.
City, State, Zip: Elizabeth, N.J. 07206
Technical Contact: Scott Bury
Title: Disposal Coordinator
Telephone NO. (201) 355-5800 EXT: _____
Facility EPA ID #: NJD002200046

Bill To: Cycle Chem, Inc.
Company Contact: Richard Taylor
Container Size: 55 gallon
EPA Waste No.: D001
Generating Process: Retained Samples
Common Name of Waste: glues, adhesives, paints etc
Rate of Generation: 10 (Quan) drums (Units) PER month (Time Interval)
Volume in Storage: 20 (Quan) drums (Units) IN 55 gallon 17H (Container Size and Type)
Is Waste DOT Hazardous | X | YES | | NO
Proper DOT Shipping Name: WASTE COMBUSTIBLE LIQUID, NOS
Hazard Class: Combustible No.: NA 1993
Transportation Equipment: Liquid
Placarding: A/R

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

1-5 gallon containers of glues, resins, adhesives, paints, lacquers, etc.	100 %
	%
	%
	%
	%
	%

METALS (EP Toxicity Test, mg/l)

NS = Non-Suspected

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

INORGANICS (mg/l or ppm)

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

ORGANICS (mg/l or ppm)

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

PHYSICAL DESCRIPTION

Physical State	X Liquid		Semi-solid	X Solid
Phases/Layering	X Upl-Layer		Bilayer	Multilayer
Viscosity	X High		Medium	Low
Type of Solids	X Organic		Inorganic	Mixed

Total Solids (wt. %): 50-60 Suspended Solids (wt. %): < 10
BTU/lb 10-12K % Ash Content: < 5 % Water (by weight): < 2
Flash Point (°F): 10-139 Type: closed
Specific Gravity: .9
Boiling Point, (°C): — Freezing Point, (°C): —
Vapor Pressure (mm Hg @ 24°C): < .1 mm Hg
pH (Avg): 7 (Range): 6 to 8
Total Alkalinity/Acidity (%): —
Odor: PAINT / SOLVENT
Color: VARIES

HAZARDOUS PROPERTIES

			NONE
Water Reactive		Reactive	Explosive
Shock Sensitive		Pyrophoric	Polymrizable
Radioactive		Pesticide Residuals	X Ignitable
Corrotive		Toxic Vapor	Pathogen
Biological		Etiological	
Other			

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES: DEQ051985

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 anached 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 3-14-88 _____

US V. MSP
PRODUCED BY MSP 9/93
Releasable
BOX 5 Liquid waste
MSD054
2012

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MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

SALES (504) 465-3310

MCDS Document # 8802019

MSP CODE: cyc/cyc-8802019

MAR 17 1988

Generator Name: Cycle Chem, Inc.
Facility Address: 217 South First St.
City, State, Zip: Elizabeth, N.J. 07206
Technical Contact: Scott Bury
Title: Disposal Coordinator
Telephone NO. (201) 355-5800 EXT:
Facility EPA ID #: NJD002200046

Bill To: Cycle Chem, Inc.
Company Contact: Richard Taylor
Container Size: 55 gallon
EPA Waste No.: D001
Generating Process: Returned Samples
Common Name of Waste: glues, adhesives, paints etc
Rate of Generation: 10 (Quan) drums (Units) PER month (Time Interval)
Volume in Storage: 20 (Quan) drums (Units) IN 55 gallon lined (Container Size and Type)
Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name: Waste Combustible Liquid, NOS
Hazard Class: Combustible No.: NA 1993
Transportation Equipment:
Placarding: N/R

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

1-5 gallon containers of glues, resins, adhesives, paints, lacquers, etc.	100 %
	%
	%
	%
	%
	%

METALS (EP Toxicity Test, mg/l)

NS = Non-Suspected

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

INORGANICS (mg/l or ppm)

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

ORGANICS (mg/l or ppm)

Endrin	0	Organohalide	0
Methoxychlor		Mercaptans	0
Toxaphene			
2,4-5			
2,4,5-T			
Phenolics)			
PCBs			
Dioxin			
TOC	10,000		

PHYSICAL DESCRIPTION

Physical State	[X] Liquid	[ ] Semi-solid	[X] Solid
Phases/Layering	[X] Uni-Layer	[ ] Bilayer	[ ] Multilayer
Viscosity	[X] High	[ ] Medium	[ ] Low
Type of Solids	[X] Organic	[ ] Inorganic	[ ] Mixed

Total Solids (wt. %): 50-60 Suspended Solids (wt. %): <10
BTU/lb 10-12K % Ash Content: <5 % Water (by weight): <2
Flash Point (F): 101-139 Type: closed
Specific Gravity: .9
Boiling Point, (°C): — Freezing Point, (°C): —
Vapor Pressure (mm Hg @ 24°C): <.1 mm Hg
pH (Avg): 7 (Range): 6 to 8
Total Alkalinity/Acidity (%):
Odor: PAINT / SOLVENT
Color: VARIES

HAZARDOUS PROPERTIES

[ ] Water Reactive	[ ] Reactive	[ ] Explosive	[ ] NONE
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Polymviable	
[ ] Radioactive	[ ] Pesticide Residuals	[X] Ignitable	
[ ] Corrotive	[ ] Toxic Vapor	[ ] Pathogen	
[ ] Biological	[ ] Etiological		
[ ] Other			

REQUIRED PERSONNEL PROTECTIV EQUIPMENT AND PROCEDURES: DEQ051986

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 3-14-88 GENERATOR'S SIGNATURE: [signature]

US V. MSP PRODUCED BY MSP 9/93 Releasable
BOX 5 Liquid waste drums Waste Chemicals
MSD054
2013

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MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

SALES (504) 465-3310

MCDS Document # 8802019

MSP CODE: cyc/cyc-8802019

MAR 17 1988

Generator Name: Cycle Chem, Inc.
Facility Address: 217 South First St.
City, State, Zip: Elizabeth, N.J. 07206
Technical Contact: Scott Bury
Title: Disposal Coordinator
Telephone NO. (201) 355-5800 EXT:
Facility EPA ID #: NJD002200046

Bill To: Cycle Chem, Inc.
Company Contact: Richard Taylor
Container Size: 55 gallon
EPA Waste No.: D001
Generating Process: Retrieved Samples
Common Name of Waste: glues, adhesives, paints etc
Rate of Generation: 10 (Quan) drums (Basis) PER month (Time Intervals)
Volume in Storage: 20 (Quan) drums (Basis) IN 55 gallon (Container Type and Size)
Is Waste DOT Hazardous | X | YES | | NO
Proper DOT Shipping Name: Waste Combustible Liquid, nos
Hazard Class: Combustible No.: NA 1993
Transportation Equipment:
Placarding: N/R

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

1-5 gallon containers of glues, resins, adhesives, paints, lacquers, etc.	100 %
	%
	%
	%
	%
	%

METALS (EP Toxicity Test, mg/l) NS = Non-Suspected

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

INORGANICS (mg/l or ppm)

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

ORGANICS (mg/l or ppm)

Endrin	0	Organohalide	0
Methoxychlor		Mercaptans	0
Toxaphene			
2, 4-5			
2,4,5-T			
Phenolics			
PCBs			
Dioxin			
TOC	<10		

PHYSICAL DESCRIPTION

Physical State		X Liquid	X Solid
Phases/Layering	X Uni-Layer	Bilayer	Multilayer
Viscosity	X High	Medium	Low
Type of Solids	X Organic	Inorganic	Mixed

Total Solids (wt. %): 50-60 Suspended Solids (wt. %): <10
BTU/lb 10-12K % Ash Content: <5 % Water (by weight): <2
Flash Point (F): 101-139 Type: closed
Specific Gravity: .9
Boiling Point (C): — Freezing Point (C): —
Vapor Pressure (mm Hg @ 24°C): <1 mm Hg
pH (Avg): 7 (Range): 6 to 8
Total Alkalinity/Acidity (%):
Odor: PAINT / SOLVENT
Color: VARIES

HAZARDOUS PROPERTIES

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

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES: DEQ051987

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 3-14-88 GENERATOR'S SIGNATURE (1) [signature]

BOX 5 Waste characterization sheet for incinerator
U.S. V. MSP
PRODUCED BY MSP 9/93
Releasable
REQUEST #
MSD054
2074

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RECERTIFICATION OF MATERIAL CHARACTERIZATION DATA SHEET

MSP Approval Code: CYC /CYC /88081217 /

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: CYCLE CHEM
Telephone: (201) 355-5800 x.0000
Facility Address: 217 SOUTH FIRST STREET
USEPA ID: NJD002200046
ELIZABETH, NJ 07206-0000
Name of Waste: VINYL ACETATE DEBRIS
Generating Process:
Technical Contact: MR. SCOTT BURY
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:

DEQ051988

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) 17H

Anticipated Volume: _____ Gals. _____ Cubic Yds. 20 Other 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 recertified waste profile sheet attached hereto, and the information supplied above, are complete, true and correct.

Name: W. Scott Bury
Signature: W. Scott Bury
Title: Disp. Coor.
Date: 9/25/89

MSP Form 1040 - R (October 1987)

US v. MSP
PRODUCED BY MSP 9/93
Releasable
REQUEST # 2
Box 5 Waste Analysis Plan
MSDS
MSD054
2075

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MATERIALS CHARACTERIZATION DATA SHEET

AICUS Document # 8806121

SALES (201) 455-3310

OCT 18 1988

MSP CODE: cyc/cyc-8806121

Generator Name: Cycle Chem, Inc.
Facility Address: 217 South First St.
City, State, Zip: Elizabeth, N.J. 07206
Technical Contact: Scott Bury
Title: Disposal Coordinator
Telephone NO. (201) 355-5800 EXT:
Facility EPA ID #: NJD002200046

Bill To: Cycle Chem, Inc.
Company Contact: Gary Handley
Container Size: 17H
EPA Waste No.: NONE
Generating Process: Spill.
Common Name of Waste: VINYL ACETATE debris
Rate of Generation: 5 (Quan) drums (Unit) PER year (Time Interval)
Volume in Storage: 0 (Quan) 0 (Unit) IN 0 (Container Size and Type)
Is Waste DOT Hazardous? | | YES |X| NO
Proper DOT Shipping Name: Waste Chemical process solid, NOS
Hazard Class: X ID No.: NA 9189
Transportation Equipment:
Placarding:

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

VINYL Acetate	10-15 %
Trade-dirt	85-90 %

METALS (EP Toxicity Test, mg/l) NS = NONE suspected

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

INORGANICS (mg/l or ppm)

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

ORGANICS (mg/l or ppm)

Endrin	NS	Organohalide	NS
Methoxychlor		Mercaptans	NS
Toxaphene			
2,4-D			
2,4,5-T			
Phenolics			
PCB's			
Dioxin			
TOC	100-1500		

PHYSICAL DESCRIPTION

Physical State: | | Liquid | | | Semi-solid |X| Solid
Phases/Layering: |X| Uni-Layer | | Bilayer | | Multilayer
Viscosity: | | High |X| Medium | | Low
Type of Solids: |X| Organic | | Inorganic | | Mixed
Total Solids (wt. %) 100 Suspended Solids (wt. %)
BTU/lb <2K % Ash Content 10-40 % Water (by weight) 45
Flash Point (F) 72°F Type closed
Specific Gravity 1.6
Boiling Point (C) Freezing Point (C)
Vapor Pressure (mm Hg @ 24°C)
pH (Avg) 7 (Range) 4 to 9
Total Alkalinity/Acidity (%)
Odor Acetate
Color Grey

HAZARDOUS PROPERTIES

|X| NONE

	Water Reactive		Reactive		Explosive
	Shock Sensitive		Pyrophoric		Polymerizable
	Radioactive		Pesticide Residuals		Ignitable
	Corrosive		Toxic Vapor		Pathogen
	Biological		Etiological		
	Other: A.				

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES: DEQ051989

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 10-17-88 GENERATOR'S SIGNATURE: W. Scott Bury cycle chem

Waste characterization data sheet incl.

MSD054

2078

NOV 17 1989

RECERTIFICATION OF MATERIAL CHARACTERIZATION DATA SHEET

MSP Approval Code: CYC /CYC /88094137 /DFO

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: CYCLE CHEM
Telephone: (201) 355-5800 x.0000
Facility Address: 217 SOUTH FIRST STREET
USEPA ID: NJD002200046
ELIZABETH, NJ 07206-0000
Name of Waste: GLACIAL ACETIC ACID
Generating Process:
Technical Contact: MR. SCOTT BURY
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:

DEQ051990

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) 5gal pail

Anticipated Volume: _____ Gals. _____ Cubic Yds. 20 Other pails

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: W Scott Bury
Signature: W Scott Bury
Title: Prod. Chem
Date: 11/16/89

MSP Form 1040 [illegible]

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

US v. MSP
PRODUCED BY MSP 9/93
REQUEST Relevant Waste Trailer Invoices
Box 5

MSD054

207

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RECERTIFICATION OF MATERIAL CHARACTERIZATION DATA SHEET

MSP Approval Code: CYC /CYC /88099131/ /DFG

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: CYCLE CHEM
Telephone: (201) 355-5800 x.0000
Facility Address: 217 SOUTH FIRST STREET
USEPA ID: NJD002200046
ELIZABETH, NJ 07206-0000
Name of Waste: GLACIAL ACETIC ACID
Generating Process:
Technical Contact: MR. SCOTT BURY
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:

DEQ051991

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) 5 gal pail

Anticipated Volume: _____ Gals. _____ Cubic Yds. 20 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: W Scott Bury
Signature: W Scott Bury
Title: Disp. Coord
Date: 11/8/89

MSP Form 1040 - B (October 1987)

US V. MSP
PRODUCED BY MSP 9/93
Releasable
REQUEST
MSD054
2078

MATERIALS CHARACTERIZATION DATA SHEET

MCDS Document # 880413 0000062

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

JAN 03 1989

MSP CODE: CYC880413 - CYC

DIRECT FEED ONLY

Generator Name: Cycle Chem, Inc.
Facility Address: 217 South First St
City, State, Zip: Elizabeth, NJ 07206
Technical Contact: Scott Burg
Title: Disposal Coordinator
Telephone NO. (201) 355-5800 EXT: —
Facility EPA ID #: NJD002200046

Bill To: SAME
Company Contact: SAME
Container Size: 5gal poly: 4/5(1)gal containers used
EPA Waste No. D002
Generating Process: UNUSED PRODUCT
Common Name of Waste: GLACIAL Acetic Acid
Rate of Generation: 5 (Quan) drums (Units) PER year (Time Intervals)
Volume in Storage: 3 (Quan) drums (Units) IN 30 gal fiber (Container Size and Type)

Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name: Waste Glacial Acetic Acid
Hazard Class: Corrosive ID No.: UN 2789
Transportation Equipment: Motor
Placarding: Corrosive.

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Glacial Acetic Acid	40-60 %
Vermiculite	40-60 %
	%
	%
	%
	%
	%

METALS (EP Toxicity Test, mg/l)

NS = None suspected

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

INORGANICS (mg/l or ppm)

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

ORGANICS (mg/l or ppm)

Endrin	NS	Organohalide	NS
Methorychlor		Mercaptans	NS
Toxaphene			
2, 4-5			
2,4,5-T			
Phenolics)			
PCBs			
Dioxin			
TOC	400-600K		

PHYSICAL DESCRIPTION

Physical State	[X] Liquid	[ ] Semi-solid	[ ] Solid
Phases/Layering	[X] Uni-Layer	[ ] Bilayer	[ ] Multilayer
Viscosity	[ ] High	[X] Medium	[ ] Low
Type of Solids	[X] Organic	[ ] Inorganic	[ ] Mixed

Total Solids (wt. %) <5 Suspended Solids (wt. %) <5
BTU/lb <3K % Ash Content 40-60 % Water (by weight) 10-20
Flash Point (°F) >140 Type open
Specific Gravity 1.0
Boiling Point, (°C) — Freezing Point, (°C) —
Vapor Pressure - (mm Hg @ 24°C)
pH (Avg) 1.2 (Range) 1 to 4
Total Alkalinity/Acidity (%)
Odor Vinegar
Color clear

HAZARDOUS PROPERTIES

[ ] Water Reactive	[ ] Reactive	[ ] NONE	
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Explosive	
[ ] Radioactive	[ ] Pesticide Residuals	[ ] Polymriable	
[X] Corrotive	[ ] Toxic Vapor	[ ] Ignitable	
[ ] Biological	[ ] Etiological	[ ] Pathogen	
[ ] Other			

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

1 gal. per 5 gal. poly drum

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 11-21-88 GENERATOR'S SIGNATURE: W. Scott Burg

MSP FORM 1840 (REV. JUNE 87) 12 21 88

DEQ051992

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US v. MSP Releasable
PRODUCED BY MSP 9/93
REQUEST # 93-0111
BOX 5 Unfiled Hazardous Waste Materials

MSD054

2091

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

RECYCLE / REUSE ✓

MANIFEST 011111

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. TX0105151315318 ✓ Manifest Document No. 011111 ✓
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
TREATMENT ONE ✓
9001 AIRPORT BLVD., SUITE 100 ✓
HOUSTON, TX 77061
4. Generator's Phone (713) 944-9404 ✓

A. State Manifest Document Number: 011111
B. State Generator's ID: 91003
C. State Transporter's ID: 10835
D. Transporter's Phone: 936 537-9221 ✓
E. State Transporter's ID:
F. Transporter's Phone:
G. State Facility's ID: N/A
H. Facility's Phone: (504) 631-3161

5. Transporter 1 Company Name: SET ENVIRONMENTAL, INC. ✓
6. US EPA ID Number: LAD981951213 ✓
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: LAD981057706 ✓

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE COMBUSTIBLE LIQUID, N.O.S. COMBUSTIBLE LIQUID; NA1993	015	DM	02035	L	F005 R ✓
b. WASTE FLAMMABLE LIQUID, N.O.S. FLAMMABLE LIQUID; UN1993.	013	DM	01705	L	F001, F002, F003 ✓ D001 R ✓ F004 F005 ✓
c. WASTE FLAMMABLE LIQUID, N.O.S. FLAMMABLE LIQUID; UN1993.	004	DM	00220	G	F005 ✓ R D001 ✓
d. HAZARDOUS WASTE SOLID, N.O.S. DRM-E; NA9189	018	DM	01910	TP	F001, F002 ✓ F003 ✓ R F004, F005 ✓

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
A. PAINT SLUDGE TRO/TRO/9000099 / 952070
B. PAINT SLUDGE & SOLIDS TRO/TRO/9000291 / 952070 ✓
C. PAINT SLUDGE & SOLIDS TRO/TRO/9000291 / 952070 ✓
D. SOLVENT CONTAMINATED DEBRIS TRO/TRO/9000152 ✓ 977990

K. Handling Codes for Wastes Listed Above: DEQ051993

15. Special Handling Instructions and Additional Information
EMERGENCY PHONE #: 713-645-3417

IF UNABLE TO DELIVER, RETURN TO GENERATOR: REQUIRES CERTIFICATE OF DISPOSAL

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	Signature	Month Day Year
KIM HARTSON ✓	Kim Hartson ✓	01 62 18 90 ✓

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
DAVID SCHNEIDER ✓	✓	01 62 18 90

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

FACILITY

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	Signature	Month Day Year
DAN DRAINER		01 62 18 90

EPA Form 8700-22 (Rev. 9-88) WHITE – DEQ GREEN – Generator YELLOW – TODDE BLUE – Transporter 2 PINK – Transporter 1 GOLD – Generator

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US V. NSP PRODUCED BY NSP 9/93 Releasable

REQUEST Waste Manifest

MSD054

2000 F

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

RECYCLE / REUSE ✓

MANIFEST 010418

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. TXD015151315 — Manifest Document No. 010418 ✓
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
TREATMENT ONE ✓
9001 AIRPORT BLVD, SUITE 601
HOUSTON, TX 77061 ✓
4. Generator's Phone (713) 944-9464 ✓

A. State Manifest Document Number 010418
B. State Generator's ID 91003
C. State Transporter's ID LA0235
D. Transporter's Phone 708-537-9221 ✓
E. State Transporter's ID
F. Transporter's Phone
G. State Facility's ID N/A
H. Facility's Phone (504) 631-3161 ✓

5. Transporter 1 Company Name: SET ENVIRONMENTAL, INC. ✓ — 6. US EPA ID Number: ILD981019572136 ✓
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: LAD981057706 ✓

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	I. Waste No.
a. WASTE ORGANIC PEROXIDE, SOLID, N.O.S. ORGANIC PEROXIDE; NA9187	0011	DF	001005	G	D001 ✓ R D003 ✓
b.					R
c.					R
d.					R

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
A. ~~EPA Poly~~ IM LABORATORY WASTE; LAB PACK CONFIGURATION
SEE ATTACHED INVENTORY # 379, SET/TRO/9002462/H
TWC 978400

K. Handling Codes for Wastes Listed Above
DEQ051994

15. Special Handling Instructions and Additional Information
EMERGENCY PHONE #: 713-645-3417

IF UNABLE TO DELIVER, RETURN TO GENERATOR — REQUIRES CERTIFICATE OF DISPOSAL.

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.

GENERATOR — Printed/Typed Name: KIM MATSON ✓ — Signature: Kim Matson ✓ — Month Day Year: 10/16/91

TRANSPORTER
17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DAVID SCHWINER ✓ — Signature ✓ — Month Day Year: 10/21/91
18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Month Day Year

FACILITY
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: DAN BRASHER — Signature — Month Day Year: 10/22/91

EPA Form 8700-22 (Rev. 9-88) WHITE - DEQ GREEN - Generator YELLOW - TSDF BLUE - Transporter 2 PINK - Transporter 1 GOLD - Generator

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US V. NSP — PRODUCED BY NSP 9/93 — Releasable

REQUEST Hazardous Waste Manifests

MSD054

2081

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SET# 10822-630-09

MATERIALS CHARACTERIZATION DATA SHEET

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

MAY 07 1990 For MSP Use Only

9002462

Approval Code SET/TRO/9002462-LP

A. Generator Information

Generator Name: Treatment One/Div. of SET Env., Inc.
Site Address: 5743 Cheswood St.
City: Houston State: TX Zip Code: 77087
Generator Contact: Jim Miller
Title: Tech. Services Manager
Telephone No.: (713) 944-9464
Facility EPA I.D. No.: TXD 055 135 388

B. Customer Information

Company Name /BROKER: SET Environmental, Inc.
Contact: Rebecca Etnire
Address: 450 Sumac Rd.
Wheeling, IL 60090
Telephone No.: (708) 537-9221
For Customer Use

C. Regulatory Information

☒ RCRA Regulated ☐ Land Ban ☐ Non-Regulated EPA Waste Code(s): D001, D003

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
See Lab Pack Inventory		

Common Name of Waste: Lab waste

E. General Characteristics

Color: See Lab Pack Inventory
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 %) ( )
BTU's per lb (list actual value) ____
Water (Wt %) ☐ <1 ☐ 5-10 ☐ 1-5 ☐ if > 10 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 ____
Viscosity (for bulk liquids only) list actual in centipoise ____ cp
Total Suspended Solids (Wt %-for bulk liquids only) ☐ 5-20 ☐ if > 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 actual
☐ 140°-200°F

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

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

Organics (ppm)
Endrin ____
Lindane ____
Methoxychlor ____
Toxaphene ____
2,4-D ____
2,4,5-TP (Silvex) ____

If material contains the following compounds, indicate actual ppm:
PCB ____
Cyanides ____
Sulfides ____
Dioxin ____

US V. MSP PRODUCED BY MSP 9/93 Releasable
REQUEST Waste Analysis
MSD054
2082
DEQ051665

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H. Notes, Additional Information or Special Handling Instructions

Generating Process: Research and development.

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 (circle one)

Proper Shipping Name See Lab Pack Inventory. DOT I.D. No. UN/NA

Hazard Class RQ

Anticipated Volume Drums Gal Yds Lbs ☐ Bulk ☐ Roll

Container Size Container Type

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 Material Characterization Data Sheet.

1. [signature] 2. Jim Miller

Generator's Signature Name (Type or Print)

3. 5-3-90 4. Technical Services Manager

Date Title

DEQ051996

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. 10/89

U.S. v. MSP Releasable
PRODUCED BY: MSP 9/93
REQUEST # [illegible]
BOX # [illegible]
MSD054
2083

[redacted]
450 Sumac Road
Wheeling, Illinois 60090 (708) 537-9221

CONTAINER NO.: 311
AUTH.NO.: LP
TREATMENT CODE: 501 (SCA)

LAB PACK INVENTORY

ENERATOR: OWENS CORNING
ISPOSAL SITE: HSP GLOBAL ES (T-1 STORAGE)
ESIGNATION: A-OX/A-IA/B/BCN/COA/C-OX/C-S
FB/FBS/FSX/WRA/WRF
ONTAINER SIZE: 5/10/14/16/30/55
ONTAINER TYPE: poly/fiber/metal
\CKAGING MEDIUM: vermiculite/clay based/corn cob
ONTAINS: NO CALIFORNIA LIST WASTES
NO F001-F005 RESTRICTED SOLVENTS
NO Y/N 1ST. 2ND THIRD RESTRICTED

DATE PACKAGED: 4/17/90
MANIFEST NO.:
DOT SHIPPING DESCRIPTION: WASTE ORGANIC PEROXIDE, SOLID, N.O.S.
DOT HAZARD CLASS: ORGANIC PEROXIDE
DOT NUMBER: UN/NA NA 9187
DOT LABEL(S): — FS — FL — OX — CR — PB — DWW ✓ OP — ORM-

ITEM NO.	QTY.	CHEMICAL NAME	LIQUID (L) SOLID (S) OR GAS (G)	DOT HAZARD CLASS	EPA NO.	RQ
W 1798	1 lb	ACRYLIC RESIN / AROMATIC ACYL PEROXIDE (FORMER UNKNOWN)	S	ORG. PER.	D001 D003	100

COPY DIST.: WHITE-disposal site / GREEN-SET / YELLOW-with Manifest / PINK-Packing List / GOLD-Generator

INITIALS OF PACKER: BB

DEQ051997

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US V. NSP PRODUCED BY NSP 9/93 Releasable

MSD054

2084

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MATERIALS CHARACTERIZATION DATA SHEET

ARINE SHALE PROCESSORS, INC.
0 James Drive West, Suite 120
. Rose, LA 70087
)4 465-3310

SET# 10596-630-11

9000099

JAN 08 1990

For MSP Use Only
Approval Code TRD/TRD/90000099

A. General Information

Company Name: Treatment One Division of SET Environmental, Inc.
Street: 5743 Cheswood St.
City: Houston State: TX Zip Code: 77087
Generator Contact: Jim Miller
Title: Technical Services Manager
Telephone No.: (713) 944-9464
State EPA I.D. No.: TXD 055 135 388

B. Customer Information

Company Name: Treatment One Division of SET Environmental, Inc.
Contact: Jim Miller
Address: 9001 Airport Blvd., Suite 608
Houston, TX 77061
Telephone No.: (713) 944-9464
For Customer Use:

Regulatory Information

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

Chemical Composition

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

	MIN	MAX
Paint sludge	96	99.8
Toluene	.1	2
Water	.1	2

Common name of waste: Paint sludge

General Characteristics

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

RCRA Specific Characteristics

Is the waste

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

Physical/Chemical Properties

pH (list actual Wt %): 8.41
BTU's per lb (if actual value): 9683
Water (Wt %): ☐ <1 ☐ 1-5 ☐ 5-10 ☐ if > 10 list actual: 0.65
Specific Gravity: ☐ <0.8 ☐ 0.8-1.0 ☐ 1.0-1.2 ☐ 1.2-1.4 ☐ 1.4-1.7 ☐ >1.7 list actual: 1.117
Viscosity (for bulk liquids only) list actual in centipoise: ____ cp
Total Suspended Solids (Wt % for bulk liquids only): ☐ 5-20 ☐ if > 20 list actual: ____
pH: ☐ 2-6 ☐ 6-10 ☐ 10-12.5 ☐ if <2 or >12.5 list actual: 6.7

Flash Point (closed cup): ☐ <100°F ☐ 100°-140°F ☐ 140°-200°F ☐ >200°F ☒ 190 °F actual
Sulfur (Wt %): ☒ <5 ☐ if > 5 list actual value: ____
Halogens (Wt %): ☐ Iodine ☒ ☐ Bromine ☒ ☐ Chlorine ☒ ☐ Fluorine ☒ actual Wt %
<1: ☐ ☐ ☐ ☐
1-5: ☐ ☐ ☐ ☐
5-10: ☐ ☐ ☐ ☐
If >10 list actual Wt %: ____

Metals: EP Toxicity Test (MG/L)
Arsenic (As): < 0.01
Barium (Ba): 0.865
Cadmium (Cd): 0.008
Chromium (Cr): 0.066
Lead (Pb): 0.153
Mercury (Hg): < 0.0006
Selenium (Se): < 0.01
Silver (Ag): < 0.002
Copper (Cu): N/S*
Nickel (Ni): N/S*
Zinc (Zn): N/S*

Organics (ppm)
Endrin: N/S*
Lindane: 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*

N/S* = None Suspected

DEC05 1990

U.S. v. MSP
PRODUCED BY MSP 9/93
REQUEST
Box
Unfortunately, this is the best image available
MSD054
2085

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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 information, data and comments

Generating process: Spent paint sludge from clean out of paint booths. Toluene used to clean

J. Shipping Information

DOT Hazardous Material (Y) N (circle one)

Proper Shipping Name: Waste combustible liquid, n.o.s. DOT I.D. No. UN/NA NA1993

Hazard Class: Combustible liquid RQ 1000 lbs.

Anticipated Volume: 165 x 55 (Drums) Gal Yds Lbs ☐ Bulk ☐ Roll

Container Size: 55 gallons Container Type: 17E

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 abili determine, that no deliberate or willful omission of composition or properties exist, and that all known or suspe hazards have been disclosed. I certify that the materials tested are representative of all material described by Material Characterization Data Sheet.

1. x [signature] Generator's Signature

2. x Jim Miller Name (Type or Print)

3. x 1-5-90 Date

4. x Technical Services Mg. Title

Recertification Requirements

This Materials Characterization Data Sheet must be recertified (i.e. updated) twelve months from the date signe thereafter recertified on an annual basis. In addition, if the characteristics of the material change or if the gene process changes, a new MCDS must be submitted for approval prior to shipment. DE0051999

US V. NSP Releasable
PRODUCED BY NSP 9/93
REQUEST
BOX
MSD054
2080

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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

SET# 10596-630-11

For MSP Use Only

Approval Code TRD/TRD/90000099

9000099

JAN 08 1990

A. General Information

Company Name: Treatment One Division of SET Environmental, Inc.
Address: 5743 Cheswood St.
City: Houston State: TX Zip Code: 77087
Generator Contact: Jim Miller
Title: Technical Services Manager
Telephone No.: (713) 944-9464
Facility EPA I.D. No.: TXD 055 135 388

B. Customer Information

Company Name: Treatment One Division of SET Environmental, Inc.
Contact: Jim Miller
Address: 9001 Airport Blvd., Suite 608
Houston, TX 77061
Telephone No.: (713) 944-9464
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
Paint sludge	96	99.8
Toluene	.1	2
Water	.1	2

Common name of waste: Paint sludge

E. General Characteristics

Color: Red

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 %): 8.41

BTU's per lb (list actual value): 10,851

Water (Wt %): ☐ <1 ☐ 5-10 ☐ 1-5 ☐ if > 10 — list actual: 0.65

Specific Gravity: ☐ <0.8 ☐ 1.2-1.4 ☐ 0.8-1.0 ☐ 1.4-1.7 ☐ 1.0-1.2 ☐ >1.7 — list actual: 1.117

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

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

pH: ☐ 2-6 ☐ 6-10 ☐ 10-12.5 ☐ if < 2 or > 12.5 — list actual: 6.7

Flash Point (closed cup): ☐ < 100°F ☐ > 200°F ☒ 190 °F actual ☐ 100°-140°F ☐ 140°-200°F

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

Halogens (Wt %) <1 / 1-5 / 5-10 / if >10 list actual Wt %:
☐ Iodine ☒ / ☐ / ☐ / _____
☐ Bromine ☒ / ☐ / ☐ / _____
☐ Chlorine ☒ / ☐ / ☐ / _____
☐ Fluorine TBD actual Wt % / _____

Metals: EP Toxicity Test (MG/L)

Arsenic (As)	< 0.01	Selenium (Se)	< 0.01
Barium (Ba)	0.865	Silver (Ag)	< 0.002
Cadmium (Cd)	0.008	Copper (Cu)	N/S*
Chromium (Cr)	0.066	Nickel (Ni)	N/S*
Lead (Pb)	0.153	Zinc (Zn)	N/S*
Mercury (Hg)	< 0.0005		

Organics (ppm)

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

N/S* = Not Surveyed

DE0052000

US V. MSP Releasable
PRODUCED BY MSP 9/93
REQUEST of Waste Water Matter
Box 5
MSD054
MSD054
2087

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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 sup information, data and comments

Generating process: Spent paint sludge from clean out of paint booths. Toluene used to clean pip

J. Shipping Information

DOT Hazardous Material (Y) N (circle one)

Proper Shipping Name: Waste combustible liquid, n.o.s. DOT I.D. No. UN/NA NA1993

Hazard Class: Combustible liquid RQ 1000 lbs.

Anticipated Volume: 165 x 55 (Drums) Gal Yds Lbs ☐ Bulk ☐ Roll

Container Size: 55 gallons Container Type: 17E

Per: X 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 Material Characterization Data Sheet.

1. X Jim Miller — Generator's Signature

2. X Jim Miller — Name (Type or Print)

3. X 1-5-90 — Date

4. X Technical Services Mgr — Title

Recertification Requirements

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

DE0052001

US V. NSP Releasable
PRODUCED BY NSP 9/93
DOC. REQUEST #

MSD054

2088

MATERIALS CHARACTERIZATION DATA SHEET

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

SET# 10596-630-11
For MSP Use Only
Approval Code TRD/TRD/9000099
9000099
JAN 08 1990

A: General Information

Company Name: Treatment One Division of SET Environmental, Inc
Address: 5743 Cheswood St.
City: Houston State: TX Zip Code: 77087
Generator Contact: Jim Miller
Title: Technical Services Manager
Telephone No. (713) 944-9464
Facility EPA I.D. No. TXD 055 135 388

B: Customer Information

Company Name: Treatment One Division of SET Environmental, Inc.
Contact: Jim Miller
Address: 9001 Airport Blvd., Suite 608
Houston, TX 77061
Telephone No. (713) 944-9464
For Customer Use:

C: Regulatory Information

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

D: Chemical Composition

PIO TRADE NAMES – Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%	MIN	MAX
Paint sludge	96	99.8
Toluene	.1	2
Water	.1	2

Common name of waste: Paint sludge

E: General Characteristics

Color: Red
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 %): 8.41
BTU's per lb (list actual value): 9051
Water (Wt %): ☐ <1 ☐ 5-10 ☐ 1-5 ☐ if > 10 list actual: 0.65
Specific Gravity: ☐ <0.8 ☐ 1.2-1.4 ☐ 0.8-1.0 ☐ 1.4-1.7 ☐ 1.0-1.2 ☐ >1.7 list actual: 1.117
Viscosity (for bulk liquids only) list actual in centipoise: ____ cp
Total Suspended Solids (Wt % for bulk liquids only): ☐ 5-20 ☐ if > 20 list actual: ____
pH: ☐ 2-6 ☐ 6-10 ☐ 10-12.5 ☐ if <2 or >12.5 list actual: 6.7

Flash Point (closed cup):
☐ < 100°F ☐ > 200°F
☐ 100°-140°F ☒ 190 °F actual
☐ 140°-200°F

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

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)	< 0.01	Selenium (Se)	< 0.01
Barium (Ba)	0.865	Silver (Ag)	< 0.002
Cadmium (Cd)	0.008	Copper (Cu)	N/S*
Chromium (Cr)	0.066	Nickel (Ni)	N/S*
Lead (Pb)	0.153	Zinc (Zn)	N/S*
Mercury (Hg)	< 0.0005		

Organics (ppm)

Endrin	N/S*
Lindane	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*

N/S* = Item Suspected

DEQ052002

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US V. MSP
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Releasable
REQUEST
BOX
UNITED STATES

MSD054

2089

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Releasable
REQUEST
DOJ

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 supp information, data and comments

Generating process: Spent paint sludge from clean out of paint booths. Toluene used to clean pipi

J. Shipping Information

DOT Hazardous Material (Y) N (circle one)

Proper Shipping Name: Waste combustible liquid, n.o.s. DOT I.D. No. UN/NA NA1993

Hazard Class: Combustible liquid RQ 1000 lbs.

Anticipated Volume: 165 x 55 (Drums) Gal Yds Lbs ☐ Bulk ☐ Roll

Container Size: 55 gallons Container Type: 17E

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 or determine, that no deliberate or willful omission of composition or properties exist, and that all kno hazards have been disclosed. I certify that the materials tested are representative of all mater Materials Characterization Data Sheet.

1. X [signature] Generator's Signature

2. X Jim [illegible] Name (Type or Pr

3. X 1-5-90 Date

4. X Title

Recertification Requirements

This Materials Characterization Data Sheet must be recertified (i.e. updated thereafter recertified on an annual basis. In addition, if the characteristics of process changes, a new MCDS must be submitted for approval prior to shipmer

DE0052003

MSD054

2090

TENCO LABORATORIES DIVN. OF THX, INC.

1150 Junction Avenue - Schererville, Indiana 46375
1-219-322-2560 ● 1-800-428-3311

DEQ052004

REPORT TO:

George Siambanes
SET Environmental Inc
450 Sumac Road
Wheeling, IL 60090

Date: 1/4/90
Recd: 12/28/89
WO #: 22-723

Laboratory Smp ID No.:	AA12431						
DESCRIPTION: ——> Unless otherwise noted; results in parts per million - ppm] PARAMETERS: ↓	Treatment One Paint Sludge 10596-630-11						maximum concentratic (metals only
	AS RECEIVED	TOTAL	REACTIVE		TOTAL	EP TOXICITY	
FLASHPOINT-(140°F)	190°F			SILVER		<0.002	5.0 ppm
Percent Acidity				ARSENIC		<0.01	5.0 ppm
Percent Alkalinity				BARIUM		0.865	100.0 ppm
pH (2-12.5**)	6.7			CADMIUM		0.008	1.0 ppm
Percent Total Solids	41.29			CHROMIUM***		0.066	5.0 ppm
SULFIDE				MERCURY		<0.0005	.2 ppm
CYANIDE				LEAD		0.153	5.0 ppm
PHENOL				SELENIUM		<0.01	1.0 ppm
% Ash	8.41						
BTU/lb	9658						
% Chlorine	0.31						
Specific Gravity	1.117						
% Sulfur	2.39						
% Water	0.65						
				*** Total			

** Allowable Range

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MSD054

1602

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 TRO/TRO/9000158

9000158 JAN 12 1990

A. General Information

Company Name TREATMENT ONE
Address 5743 CHESWOOD
City HOUSTON State Tx Zip Code 77081
Generator Contact STEVE PAVLOVICH
Title GENERAL MANAGER
Telephone No. (713) 944-9469
Facility EPA I.D. No. TXD 055135583

B. Customer Information

Company Name TREATMENT ONE
Contact STEVE PAVLOVICH
Address 9001 AIRPORT BLVD., SUITE 607
HOUSTON, Tx 77061
Telephone No. (713) 944-9469
For Customer Use

C. Regulatory Information

☑ RCRA Regulated ☑ Land Ban ☐ Non-regulated EPA Waste Code(s) F001, F002, F003, F004, F005

D. Chemical Composition

TRADE NAMES – Ranges must not exceed 20%. Total in maximum column must be greater than or equal to 100%	MIN	MAX
DEBRIS- MAY INCLUDE ANY OF THE FOLLOWING, OIL DRY, TYVEKS, PAPER, PLASTIC, FILTERS, WOOD, ETC.	80	100
SPENT SOLVENTS (F001 THRU F005 SOLVENTS)	0	20

Common name of waste: SOLVENT CONTAMINATED DEBRIS

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 %): 94
BTU's per lb (list actual value): 2879 list actual
Water (Wt %): ☑ <1 ☐ 5-10 ☐ 1-5 if > 10 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
Viscosity (for bulk liquids only) list actual in centipoise: cp
Total Suspended Solids (Wt %-for bulk liquids only): ☐ 5-20 ☐ if > 20 list actual
pH: ☐ 2-4 ☑ 5-10 ☐ 10-12.5 ☐ if < 2 or > 12.5 list actual

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

Halogens (Wt %): <1 / 1-5 / 5-10 / if >10 list actual Wt %

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

Metals EP Toxicity Test (MG/L)

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

Organics (ppm)

Endrin	N/S	PCB	N/S
Lindane	N/S	Cyanides	N/S
Methoxychlor	N/S	Sulfides	N/S
Toxaphene	N/S	Dioxin	N/S
2,4-D	N/S		
2,4,5-TP (Silvex)	N/S		

If material contains the following compounds, indicate actual ppm

DEQ052005

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US V. MSP
PRODUCED BY MSP 9/93
REQUEST
BOX
MSD054
2092

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US V. MSP Releasable PRODUCED BY MSP 9/92 REQUEST

H. Notes, Additional Information or Special Handling Instructions

WEAR APPROPRIATE EYE, SKIN & RESPIRATORY EQUIPMENT

I. Required Protective Equipment and Procedures

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

Generating process: CLEAN UP OF SPENT SOLVENT SPILLS.

J. Shipping Information

DOT Hazardous Material (Y) N (circle one)

Proper Shipping Name HAZARDOUS WASTE, SOLID, N.O.S. DOT I.D. No. UN(NA) 9189

Hazard Class ORM-E IQ Poor Good N/A

Anticipated Volume 20-30 Drums Gal Yds Lbs Bulk Roll

Container Size 55 GAL Container Type MTL/H

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. Steve Pavlevich — Generator's Signature

2. Steve Pavlevich — Name (Type or Print)

3. 1-9-90 — Date

4. General Manager — 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.

DEQ052006

MSD054

209

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LABS
Laboratory & Analytical Business Services

RT. 4 Box 167A | Church Point, LA 70525 | (318) 684-3150

58

JANUARY 8, 1990

COMPANY: TREATMENT ONE
WASTE STREAM: SOLVENT CONTAMINATED DEBRIS
LAB #: 11226

ANALYSIS BEGIN: 1/8/90 @ 11:15 AM
COMPLETE: 1/8/90 @ 5:30 PM

PARAMETER	RESULTS	UNITS
ASH %	73.92	PERCENT
SULFUR %	0.18	PERCENT
CHLORINE %	1.1	PERCENT
FLASHPOINT	106	°F FARENHEIT
HEAT OF COMBUSTION	2879	BTU/LB
SOLIDS %	88.55	PERCENT
SPECIFIC GRAVITY	2.34	UNITS
PH	6.74	6.0-9.0 UNITS

ATTEST: Carolyn Thomas

DEQ052007

US V. NSP Releasable
PRODUCED BY NSP 9/93
REQUEST
Box 5 Hazardous Waste Trailer
MSD054
MSD054
2094

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MSD054

MATERIALS CHARACTERIZATION DATA SHEET SET# 10634-630-11

ARINE SHALE PROCESSORS INC.
0 James Drive West, Suite 120
. Rose, LA 70087
04 465-3310

For MSP Use Only
Approval Code TRD/TRD/9000291

JAN 19 1990 9000291

A. General Information

Company Name: Treatment One/Division of SET Environmental, Inc.
Street: 5743 Cheswood Street
Houston State TX Zip Code 77087
Generator Contact: Jim Miller
Technical Services Manager
Telephone No.: (713) 944-9464
Facility EPA I.D. No.: TXD 055 135 388

B. Customer Information

Company Name: Treatment One/Division of SET Environmental, Inc.
Contact: Jim Miller
Address: 9001 Airport Blvd., Suite 608
Houston, TX 77061
Telephone No.: (713) 944-9464
For Customer Use:

C. Regulatory Information

RCRA Regulated ☒ Land Ban ☐ Non-Regulated EPA Waste Code(s): F001-F005, D001, D004-D008, D010, D011

D. Chemical Composition

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

	MIN	MAX
Paint sludge and solids	80	99
F001-F005 Solvents	1	20

Common name of waste: Paint Sludge and Solids

The EPA waste codes listed apply will be indicated on the manifest for each individual load.

E. General Characteristics

Color: Varies
Odor: ☐ None ☒ Mild ☐ Strong
Physical State: 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

Solids (list actual Wt %): 0 - 10
BTU's per lb (actual value): > 5000
Water (Wt %): ☐ <1 ☐ 1-5 ☐ 5-10 ☐ if > 10 — list actual: 0 - 20
Specific Gravity: ☐ <0.8 ☐ 0.8-1.0 ☐ 1.0-1.2 ☐ 1.2-1.4 ☐ 1.4-1.7 ☐ >1.7 — list actual: .8 - 2
Viscosity (for bulk liquids only) list actual in centipoise: ____ cp
Total Suspended Solids (Wt % for bulk liquids only): ☐ 5-20 ☐ if > 20 — list actual: ____
pH: ☐ 2-6 ☐ 6-10 ☐ 10-12.5 ☐ if < 2 or > 12.5 — list actual: 4 - 10

Flash Point (closed cup): ☐ < 100°F ☐ 100°-140°F ☐ 140°-200°F ☐ > 200°F ☒ < 70-140°F actual
Sulfur (Wt %): ☒ < 5 ☐ If > 5 list actual value: ____
Individual loads may be +/- & will be indicated on the manifest.

Halogens (Wt %): ☐ Iodine ☐ Bromine ☐ Chlorine ☐ Fluorine — <1 ☒ ☒ ☐ ☐; 1-5 ☐ ☐ ☐ ☐; 5-10 ☐ ☐ ☐ ☐; if > 10 list actual Wt %: ____ ____ 0 - 10 ____ actual Wt %

Totals 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) N/S*
Selenium (Se) 1.0
Silver (Ag) 5.0
Copper (Cu) N/S*
Nickel (Ni) N/S*
Zinc (Zn) N/S*

Organics (ppm):
Endrin N/S*
Lindane 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*

DE0052008

2095

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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 information, data and comments

Generating process: Paint Sludges and Solids from painting operations.

J. Shipping Information

DOT Hazardous Material (Y) N Shipping information will vary and will be (circle one) indicated on the Manifest.

Proper Shipping Name DOT I.D. No. UN/NA

Hazard Class RQ

Anticipated Volume 88 (Drums) Gal Yds Lbs Bulk Roll

Container Size 55 E Container Type E

Per One time (X) Week Month Year Other

Certification

I hereby certify that the above attached description is complete and accurate to the best of my knowledge and abili determine, that no deliberate or willful omission of composition or properties exist, and that all known or suspe hazards have been disclosed. I certify that the materials tested are representative of all material described by Materials Characterization Data Sheet.

1. X [signature] 2. X Jim Miller

Generator's Signature Name (Type or Print)

3. X 1-18-90 4. X Tech. Services Mgr

Date Title

Recertification Requirements

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

DEQ052009

U.S. V. NSP Releasable
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MCDS

MSD054

2098

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MSP MATERIALS CHARACTERIZATION DATA SHEET SETA 10634-630-11

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

JAN 19 1990 90110291

For MSP Use Only
Approval Code TRD/TRD/9000291

A. General Information

Company Name: Treatment One/Division of SET Environmental, Inc.
Address: 5743 Cheswood Street
City: Houston State: TX Zip Code: 77087
Generator Contact: Jim Miller
Title: Technical Services Manager
Telephone No.: (713) 944-9464
Facility EPA I.D. No.: TXD 055 135 388

B. Customer Information

Company Name: Treatment One/Division of SET Environmental, Inc.
Contact: Jim Miller
Address: 9001 Airport Blvd., Suite 608
Houston, TX 77061
Telephone No.: (713) 944-9464
For Customer Use:

C. Regulatory Information

☒ RCRA Regulated ☒ Land Ban ☐ Non-Regulated EPA Waste Code(s): F001-F005, D001, D004-D008, D010, D011

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 sludge and solids	80	99
F001-F005 Solvents	1	20

Common name of waste: Paint Sludge and Solids

The EPA waste codes that apply will be indicated on the manifest for each individual load.

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 %): 0 - 10
BTU's per lb (list actual value): > 5000
Water (Wt %): ☐ < 1 ☐ 5-10 ☐ 1-5 ☐ if > 10 list actual: 0 - 20
Specific Gravity: ☐ < 0.8 ☐ 1.2-1.4 ☐ 0.8-1.0 ☐ 1.4-1.7 ☐ 1.0-1.2 ☐ > 1.7 list actual: .8 - 2
Viscosity (for bulk liquids only) list actual in centipoise: ____ cp
Total Suspended Solids (Wt % for bulk liquids only): ☐ 2-5 ☐ 5-20 ☐ if > 20 list actual: ____
pH: ☐ 2-6 ☐ 6-10 ☐ 10-12.5 ☐ if < 2 or > 12.5 list actual: 4 - 10

Flash Point (closed cup): ☐ < 100°F ☐ > 200°F ☒ 70-140°F actual
☐ 100°-140°F ☐ 140°-200°F
Sulfur (Wt %): ☒ < 5 ☐ if > 5 list actual value: ____
Individual loads may be ± 10% and will be indicated on the manifest.

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

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) N/S*
Selenium (Se) 1.0
Silver (Ag) 5.0
Copper (Cu) N/S*
Nickel (Ni) N/S*
Zinc (Zn) N/S*

Organics (ppm):
Endrin N/S*
Lindane 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*

DEQ052010

US V. MSP PRODUCED BY MSP 9/93 Releasable
REQUEST BY: Unknown
DOJ
MSD054
2091

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MATERIALS CHARACTERIZATION DATA SHEET SETA 10634-630-11

:INE SHALE PROCESSORS, INC.
James Drive West, Suite 120
ose, LA 70087
465-3310

For MSP Use Only
Approval Code TRD/TRO/9000291

N 19 1990 90n0291

A. General Information

any Name Treatment One/Division of SET Environmental, Inc.
s 5743 Cheswood Street
Houston State TX Zip Code 77007
ator Contact Jim Miller
Technical Services Manager
one No. (713) 944-9464
r EPA I.D. No. TXD 055 135 388

B. Customer Information

Company Name Treatment One/Division of SET Environmental, Inc.
Contact Jim Miller
Address 9001 Airport Blvd., Suite 608
Houston, TX 77061
Telephone No. (713) 944-9464
For Customer Use

Regulatory Information

UA Regulated ☒ Land Ban ☐ Non-Regulated EPA Waste Code(s) F001-F005, D001, D004-D008, D010, D011

Chemical Composition

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

	MIN	MAX
Paint sludge and solids	80	99
F001-F005 Solvents	1	20

mmon name of waste: Paint Sludge and Solids

General Characteristics

n Varies
n ☐ None ☒ Mild ☐ Strong
quid ☒ Sludge ☒ Solid ☐ Powder
ue ☐ 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)

Physical/Chemical Properties

Flash (enter actual Wt %): 0 - 10
BTU's per lb (enter actual value): > 5000
Water (Wt %): ☐ <1 ☐ 5-10 ☐ 1-5 ☐ if > 10 — list actual 0 - 20
Specific Gravity: ☐ <0.8 ☐ 1.2-1.4 ☐ 0.8-1.0 ☐ 1.4-1.7 ☐ 1.0-1.2 ☐ >1.7 — list actual .8 - 2
Viscosity (for bulk liquids only) list actual in centipoise: ____ cp
Total Suspended Solids (Wt % for bulk liquids only): ☐ 5-20 ☐ if > 20 — list actual: ____
pH: ☐ 2-6 ☐ 6-10 ☐ 10-12.5 ☐ if < 2 or > 12.5 — list actual 4 - 10

Flash Point (closed cup): ☐ < 100°F ☐ 100°-140°F ☐ 140°-200°F ☐ > 200°F ☒ < 70-140°F actual
Sulfur (Wt %): ☒ < 5 ☐ if > 5 list actual value ____
Individual loads may be approx and will be indicated on the manifest.

Halogens (Wt %): ☐ Iodine ☐ Bromine ☐ Chlorine ☐ Fluorine

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

Metals EP Toxicity Test (MG/L):

Arsenic (As)	5.0	Selenium (Se)	1.0
Barium (Ba)	100.0	Silver (Ag)	5.0
Cadmium (Cd)	1.0	Copper (Cu)	N/S*
Chromium (Cr)	5.0	Nickel (Ni)	N/S*
Lead (Pb)	5.0	Zinc (Zn)	N/S*
Mercury (Hg)	N/S*		

Organics (ppm):

Endrin	N/S*	If material contains the following compounds, indicate actual ppm	
Lindane	N/S*	PCB	N/S*
Methoxychlor	N/S*	Cyanides	N/S*
Toxaphene	N/S*	Sulfides	N/S*
2,4-D	N/S*	Dioxin	N/S*
2,4,5-TP (Silvex)	N/S*		

DE8052011

The EPA waste code(s) listed apply will be indicated on the manifest for each individual load.

MSD054

2098

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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 hazardo information, data and comments

Generating process: Paint Sludges and Solids from painting operations.

J. Shipping Information

DOT Hazardous Material (Y) N — Shipping information will vary and will be (circle one) indicated on the Manifest.

Proper Shipping Name — DOT I.D. No. — UN/NA

Hazard Class — RQ

Anticipated Volume: 88 (Drums) Gal Yds Lbs Bulk Roll

Container Size: 55 E — Container Type: E

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 ob determine, that no deliberate or willful omission of composition or properties exist, and that all known or susp hazards have been disclosed. I certify that the materials tested are representative of all material described i Materials Characterization Data Sheet.

1. X [signature] — Generator's Signature

2. X Jim Miller — Name (Type or Print)

3. X 1-18-90 — Date

4. X Tech. Services Mg. — Title

DEC052012

Recertification Requirements

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

US v. NSP Releasable
PRODUCED BY NSP 9/93
REQUEST #
BOX
MSD054
2099

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MATERIALS CHARACTERIZATION DATA SHEET SET#10634-630-11

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

For MSP Use Only
Approval Code TRD/TRO/9000291

JAN 19 1990 90110291

A. General Information

Company Name: Treatment One/Division of SET Environmental, Inc.
Address: 5743 Cheswood Street
City: Houston State: TX Zip Code: 77087
Generator Contact: Jim Miller
Title: Technical Services Manager
Telephone No. (713) 944-9464
Facility EPA I.D. No.: TXD 055 135 388

B. Customer Information

Company Name: Treatment One/Division of SET Environmental, Inc.
Contact: Jim Miller
Address: 9001 Airport Blvd., Suite 608
Houston, TX 77061
Telephone No. (713) 944-9464
For Customer Use:

C. Regulatory Information

☐ RCRA Regulated ☒ Land Ban ☐ Non-Regulated EPA Waste Code(s): F001-F005, D001, D004-D008, D010, D011

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 sludge and solids	80	99
F001-F005 Solvents	1	20

Common name of waste: Paint Sludge and Solids

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 %): 0 - 10
Water (Wt %): ☐ <1 ☐ 1-5 ☐ 5-10 ☐ if > 10 list actual 0 - 20
Specific Gravity: ☐ <0.8 ☐ 0.8-1.0 ☐ 1.0-1.2 ☐ 1.2-1.4 ☐ 1.4-1.7 ☐ >1.7 list actual .8 - 2
BTU's per lb (list actual value): >5000
Viscosity (for bulk liquids only) list actual in centipoise: _____ cp
Total Suspended Solids (Wt % for bulk liquids only): ☐ 5-20 ☐ if > 20 list actual: _____
pH: ☐ 7-8 ☐ 6-10 ☐ 10-12.5 ☐ if <2 or >12.5 list actual 4 - 10

Flash Point (closed cup): ☐ < 100°F ☐ 100°-140°F ☐ 140°-200°F ☐ > 200°F ☒ 70-140°F actual
Sulfur (Wt %): ☒ <5 ☐ If > 5 list actual value _____
Halogens (Wt %): ☐ Iodine ☒ <1 ☐ 1-5 ☐ 5-10; ☐ Bromine ☒ <1 ☐ 1-5 ☐ 5-10; ☐ Chlorine ☐ <1 ☐ 1-5 ☐ 5-10; ☐ Fluorine ☐ <1 ☐ 1-5 ☒ 5-10 actual Wt %: 0 - 10

Individual loads may be ETOX and will be indicated on the manifest.

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) N/S*
Selenium (Se) 1.0
Silver (Ag) 5.0
Copper (Cu) N/S*
Nickel (Ni) N/S*
Zinc (Zn) N/S*

Organics (ppm):
Endrin N/S*
Lindane 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*

The EPA waste codes that apply will be indicated on the manifest for each individual load.

DEQ052013

US V. MSP PRODUCED BY MSP 9/93 REQUEST Redeemable
Box 5 Unfilmed documents
MSD054
2100

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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 information, data and comments

Generating process: Paint Sludges and Solids from painting operations.

J. Shipping Information

DOT Hazardous Material (Y) N — Shipping information will vary and will be (circle one) indicated on the Manifest.

Proper Shipping Name — DOT I.D. No. — UN/NA

Hazard Class — RQ

Anticipated Volume: 88 (Drums) — Gal — Yds — Lbs — ☐ Bulk — ☐ Roll

Container Size: 55 E — Container Type: E

(#) Per Y — ☐ 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 determine, that no deliberate or willful omission of composition or properties exist, and that all known or suspect hazards have been disclosed. I certify that the materials tested are representative of all material described by t Materials Characterization Data Sheet.

1. x [signature] — Generator's Signature

2. x Jim Miller — Name (Type or Print)

3. x 1-18-90 — Date

4. x Tech. Services Mgr — Title

Recertification Requirements

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

DEQ052014

US V. NSP PRODUCED BY NSP 9/93 Releasable
REQUEST
BOX
MSD054

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MATERIALS CHARACTERIZATION DATA SHEET SETA/0634-630-11

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

For MSP Use Only
Approval Code TRD/TRO/9000291

JAN 19 1990 9000291

A. General Information

Company Name	Treatment One/Division of SET Environmental, Inc.
Address	5743 Cheswood Street
City	Houston State TX Zip Code 77087
Generator Contact	Jim Miller
Title	Technical Services Manager
Telephone No. (713)	944-9464
Facility EPA I.D. No.	TXD 055 135 388

B. Customer Information

Company Name	Treatment One/Division of SET Environmental, Inc.
Contact	Jim Miller
Address	9001 Airport Blvd., Suite 608
	Houston, TX 77061
Telephone No. (713)	944-9464
For Customer Use	

C. Regulatory Information

☒ RCRA Regulated ☒ Land Ban ☐ Non-Regulated EPA Waste Code(s) F001-F005, D001, D004-D008, D010, D011

D. Chemical Composition

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

	MIN	MAX
Paint sludge and solids	80	99
F001-F005 Solvents	1	20

Common name of waste: Paint Sludge and Solids

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 %): 0 - 10

BTU's per lb (list actual value): >5000

Water (Wt %): ☐ < 1 ☐ 5-10 ☐ 1-5 ☐ if > 10 — list actual 0 - 20

Specific Gravity: ☐ < 0.8 ☐ 1.2-1.4 ☐ 0.8-1.0 ☐ 1.4-1.7 ☐ 1.0-1.2 ☐ > 1.7 — list actual .8 - 2

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

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

pH: ☐ 2-6 ☐ 6-10 ☐ 10-12.5 ☐ if < 2 or > 12.5 — list actual 4 - 10

Flash Point (closed cup): ☐ < 100°F ☐ > 200°F ☒ 70-140°F actual

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

Individual loads may be approx and will be indicated on the manifest.

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

If > 10 list actual Wt %: _____ 0 - 10

Metals EP Toxicity Test (MG/L):

Arsenic (As)	5.0	Selenium (Se)	1.0
Barium (Ba)	100.0	Silver (Ag)	5.0
Cadmium (Cd)	1.0	Copper (Cu)	N/S*
Chromium (Cr)	5.0	Nickel (Ni)	N/S*
Lead (Pb)	5.0	Zinc (Zn)	N/S*
Mercury (Hg)	N/S*		

Organics (ppm):

Endrin	N/S*
Lindane	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*

The EPA waste codes that apply will be indicated on the manifest for each individual load.

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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

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 suppor information, data and comments

Generating process: Paint Sludges and Solids from painting operations.

J. Shipping Information

DOT Hazardous Material (Y) N

Proper Shipping Name: Shipping information will vary and will be indicated on the Manifest. (circle one)

DOT I.D. No. UN/NA

Hazard Class RQ

Anticipated Volume: 88 (Drums) Gal Yds Lbs ☐ Bulk ☐ Roll

Container Size: 55 E Container Type: E

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 [signature] — Generator's Signature

2. X Jim Miller — Name (Type or Print)

3. X 1-15-90 — Date

4. X Tech. Services Mgr. — 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.

DEQ052016

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REQUEST #
BOX
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