MATERIALS CHARACTERIZATION DATA SHEET

MCDS Document # S73151 JL

~~72773 SEP 2387~~

MSP CODE: _____

ZDM CODE: BM-RLR-64

Generator Name Bayliner Marine Corp.
Facility Address 4545 Interstate Way
King Man, AZ. 86401
City, State, Zip _____
Technical Contact Bud Ferrell
Title Safety & Compliance Officer
Telephone NO. (602) 757-3172 EXT: —
Facility EPA ID # AZD 980892558

Bill To: ZERO DISPOSAL MARKETING
Company Contact: DICK ROSE
Container Size: 55 GALLON
EPA Waste No. UN-2831
Generating Process Clean Boat Parts in Manufacture
Common Name of Waste Methylene Chloride
Rate of Generation 1 (Quan) DRUM (Units) PER MONTH (Time Interval)
Volume in Storage 2 (Quan) DRUMS (Units) IN 55 GAL. (Container Size and Type)
Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name Methylene Chloride
Hazard Class ORM-A ID No. F-001
Transportation Equipment VAN
Placarding DANGEROUS (mixed loads)

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Methylene Chloride	94%-99%	%
Resins Polyester (Telcont)	1% to 5%	%
Oil & Grease Solids	0% to 5000	PPM
Fiber Glass Pieces (Small)	0% to 5000	PPM
		%
		%
		%

METALS (EP Toxicity Test, mg/1)

Arsenic (As)	Ø	Silver (Ag)	Ø
Barium (Ba)	Ø	Copper (Cu)	Ø
Cadmium (Cd)	Ø	Nickel (Ni)	Ø
Chromium (cr)	Ø	Zinc (Zn)	Ø
d (Pb)	Ø		
rcury (Hg)	Ø		
Selenium (Se)	Ø		

INORGANICS (mg/1 or ppm)

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

ORGANICS (mg/1 or ppm)

Endr in	Ø	Organohalide	Ø
Methoxychlor	Ø	Mercaptans	Ø
Toxaphene	Ø		
2, 4-5	Ø		
2,4,5-T	Ø		
Phenolics)	Ø		
PCBs	Ø		
D oxin	Ø		
	Ø		

PHYSICAL DESCRIPTION

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

Total Solids (wt. %) under 1% Suspended Solids (wt. %) UNKNOWN
BTU/lb 700-750 Ash Content unknown % Water (by weight) under 1%
Flash Point (°F) NONE Type — NONE
Specific Gravity 1.335
Boiling Point, (°C) 40° Freezing Point, (°F) -36.1°F
Vapor Pressure (mm Hg @ 24°C) UNKNOWN
pH (Avg) Neutral (Range) 6.9 to 7.1
Total Alkalinity/Acidity (%) MAX. Acidity 0.001
Odor ether-like
Color Colorless

HAZARDOUS PROPERTIES

[ ] Water Reactive	[ ] Reactive	[ ] NONE
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Explosive
[ ] Radioactive	[ ] Pesticide Residuals	[ ] Polymriable
[ ] Corrotive	[X] Toxic Vapor	[ ] Ignitable
[ ] Biological	[ ] Etiological	[ ] Pathogen

[X] Other IRRITANT

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES: Were full protective Clothing and Self-Contained Breathing Apparatus

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 8-9-87 GENERATOR'S SIGNATURE: Bruce Ezell

MSP FORM 1848 (REV. JUNE'87)

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FOR CHEMICAL EMERGENCY - CALL 1-800-424-[illegible] U.S.A.
-202-483-7616 OUTSIDE THE CONTINENTAL U.S. AND IN WAS[illegible]N, D.C.)

MERGENCY RESPONSE INFORMATION

CHLOROTHENE* VG SOLVENT
(METHYL CHLOROFORM INHIBITED)

DOT

ORM-A
UN2831

)MPOSITION: 1,1,1-TRICHLOROETHANE MIN. 94.5%

HYSICAL ROPERTIES:

FORM: LIQUID, COLORLESS
SPECIFIC GRAVITY 1.320 @ 25/25°C
SOLUBILITY IN WATER: DOES NOT MIX
FREEZING POINT: -36.1°F
BOILING POINT: 165°F
FLASH POINT: NONE

FLAMMABLE LIMITS: 7.5-12.5% @ 25°C
VAPOR HAZARD: WHEN HEATED TO DECOMPOSITION, EMITS HIGHLY TOXIC FUMES.
REACTS WITH: STRONG ALKALIS

HAZARDS

NVIRONMENT: ANIMAL: AVOID INGESTION. AVOID EXPOSURE.
FISH: TOXIC. PREVENT ENTRY INTO NATURAL WATERS. WILL CAUSE FISH KILL.

XPOSURE:
EYES: SLIGHT IRRITATION.
SKIN: SLIGHT IRRITATION.
INHALATION: DROWSINESS. UNCONSCIOUSNESS.
INGESTION: LOW TOXICITY.

IN CASE OF ACCIDENT

SPILL or LEAK

VAPOR HARMFUL. KEEP UPWIND. ISOLATE AREA AND DENY ENTRY. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING VAPORS. USE WATER SPRAY TO REDUCE VAPOR. VAPOR/AIR MIXTURE MAY BE FLAMMABLE. NO SMOKING, FLARES, OR OPEN FLAMES. SHUT OFF IGNITION AND LEAK IF WITHOUT RISK. USE NONCOMBUSTIBLE ABSORBENT MATERIAL/SAND AND SHOVEL INTO SUITABLE CONTAINERS. DIKE LARGER SPILLS AND RECOVER. PREVENT ENTRY INTO SEWERS AND/OR NATURAL WATERS.
CLOTHING: WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS.
DISPOSAL: CONTACT MANUFACTURER AND AUTHORITIES.

FIRE

VAPOR HARMFUL.
WILL BURN BUT DOES NOT IGNITE EASILY. VAPOR/AIR MIXTURE MAY BE FLAMMABLE. WHEN HEATED TO DECOMPOSITION, EMITS HIGHLY TOXIC FUMES. COOL CONTAINERS EXPOSED TO HEAT/FIRE WITH WATER TO PREVENT BURSTING.
SMALL FIRES: USE DRY CHEMICAL OR CO_2.
LARGE FIRES: USE WATER SPRAY, FOG, OR FOAM. DIKE LIQUID RUN-OFF. PREVENT ENTRY INTO SEWERS AND/OR NATURAL WATERS.
CLOTHING: WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS.

FIRST AID

EYES: IRRIGATION IMMEDIATELY WITH WATER FOR 5 MINUTES IS GOOD SAFETY PRACTICE.
SKIN: WASH OFF IN FLOWING WATER OR SHOWER.
CLOTHING: REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE.
INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. IF NOT BREATHING, GIVE MOUTH-TO-MOUTH RESUSCITATION. IF BREATHING DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN.

*Trademark of The Dow Chemical Company.

The information contained herein is hereby presented as a complimentary act, in good faith, and is, to the best of The Dow Chemical Company's knowledge and belief, accurate and reliable as of the date printed, but may well be incomplete. No representation, guarantee or warranty is made as to its accuracy, reliability or completeness and, as Governmental regulations and use conditions may change, it is the user's responsibility to determine the current appropriateness and suitability for specific end uses prior to use.

R-12-14-81

DOW CHEMICAL U.S.A.

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[illegible]-7020-01

MATERIAL SAFETY DATA SHEET

Ashland Chemical Co
DIVISION OF ASHLAND OIL
P O BOX 2219, COLUMBUS, OHIO 43216 • (614) 889-[illegible]
24-HOUR EMERGENCY TELEPHONE (606) 324-1133

101060 METHYLENE CHLORIDE INDUST GRD E PAGE: 1

THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (THE HAZARD COMMUNICATION STANDARD)

****

PRODUCT NAME: METHYLENE CHLORIDE INDUST GRD
CAS NUMBER: 75 09 2

BAYLINER MARINE CORP.
P.O. BOX 24467
SEATTLE, WASHINGTON 98124

05 50 070 0872810-
DATA SHEET NO: 0003736-004
LATEST REVISION DATE: 04/85-85092
PRODUCT: 3500000
INVOICE: 525367
INVOICE DATE: 08/16/85
TO: BAYLINER MARINE CORP.
103 CAMP RD.
VIVIAN, LA 71082

ATTN: PLANT MGR./SAFETY DIR.

SECTION I-PRODUCT IDENTIFICATION

GENERAL OR GENERIC ID: CHLORINATED HYDROCARBON
HAZARD CLASSIFICATION: (14) ORM-A

SECTION II-HAZARDOUS COMPONENTS

INGREDIENT	PERCENT	PEL	TLV	
METHYLENE CHLORIDE	100	500	100 PPM	(1)

(1): NIOSH RECOMMENDS A LIMIT OF 75 PPM - 8 HOUR TIME WEIGHTED AVERAGE.

SECTION III-PHYSICAL DATA

PROPERTY		REFINEMENT	MEASUREMENT	
INITIAL BOILING POINT	FOR PRODUCT		102.00 - 104.70	DEG F
			(39.38 - 40.38	DEG C)
VAPOR PRESSURE	FOR PRODUCT		@ 760.00	MMHG
			340.00	MMHG
VAPOR DENSITY	AIR = 1		@ 68.00	DEG F
			(20.00	DEG C)
SPECIFIC GRAVITY			2.9	
			1.318 - 1.322	
			@ 77.00	DEG F
PERCENT VOLATILES			(25.00	DEG C)
EVAPORATION RATE	(ETHYL ETHER = 1)		100.00%	
			1.80	

SECTION IV-FIRE AND EXPLOSION DATA

FLASH POINT NOT APPLICABLE

EXPLOSIVE LIMIT NOT APPLICABLE

EXTINGUISHING MEDIA: WATER FOG OR CARBON DIOXIDE OR DRY CHEMICAL

HAZARDOUS DECOMPOSITION PRODUCTS: MAY FORM TOXIC MATERIALS:, CARBON DIOXIDE AND CARBON MONOXIDE, HYDROGEN CHLORIDE, PHOSGENE

SPECIAL FIREFIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE WHEN FIGHTING FIRES.

UNUSUAL FIRE & EXPLOSION HAZARDS: NOT APPLICABLE

NFPA CODES: HEALTH- 2 FLAMMABILITY- 0 REACTIVITY- 1

SECTION V-HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL	500	PPM
THRESHOLD LIMIT VALUE	100	PPM
SEE SECTION II		

EFFECTS OF OVEREXPOSURE: FOR PRODUCT

EYES - CAN CAUSE IRRITATION.
SKIN - CAN CAUSE IRRITATION.
BREATHING - EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY IRRITATION, DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, POSSIBLE UNCONSCIOUSNESS, AND EVEN ASPHYXIATION.
INGESTION - CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, AND DIARRHEA.

FIRST AID:

IN CASE OF SKIN: THOROUGHLY WASH EXPOSED AREA WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. LAUNDER CONTAMINATED CLOTHING BEFORE RE-USE.

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CONTINUED ON PAGE: 2

,2-7020-01

Ashland Chemical
DIVISION OF ASHLA
P O BOX 2219, COLUMBUS, OH [illegible] -1133

Ashland

,ERIAL SAFETY DATA SHEET

24-HOUR EMERGENCY TELEPHONE (60[illegible]

DEFINITIONS

'IS DEFINITION PAGE IS INTENDED FOR USE WITH MATERIAL SAFETY DATA SHEETS SUPPLIED THE ASHLAND CHEMICAL COMPANY. QUESTIONS CONCERNING THESE SHEETS SHOULD BE /ECTED TO THE ENVIRONMENTAL AND OCCUPATIONAL SAFETY DEPARTMENT.

SECTION I
PRODUCT IDENTIFICATION

PRODUCT CLASS: GENERAL OR GENERIC IDENTIFICATION.

HAZARDOUS CLASSIFICATION: PRODUCT MEETS DOT CRITERIA FOR HAZARDS LISTED.

SECTION II
HAZARDOUS COMPONENTS

A HAZARDOUS INGREDIENT IS ONE WHICH MEETS ONE OR MORE OF THE FOLLOWING CRITERIA:

1. IT IS LISTED IN THE ANNUAL REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES, OR IT IS KNOWN TO BE TOXIC WITHIN THE PARAMETERS OF THAT REGISTRY.

AND/OR

2. IT HAS A OSHA ESTABLISHED, 8-HOUR TIME-WEIGHTED AVERAGE PERMISSABLE EXPOSURE LIMIT (PEL) OR ACCEPTABLE CEILING (C), OR AN AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS' (ACGIH) THRESHOLD LIMIT VALUE, AND BY NATURE OF THE PRODUCT OR ITS KNOWN USE, IT IS LIKELY TO BECOME AIRBORNE.

AND/OR

3. IT CONTRIBUTES TO ONE OR MORE OF THE FOLLOWING HAZARDS OF THE PRODUCT:

   A. FLASHPOINT BELLOW 200 DEG F (CC), OR SUBJECT TO SPONTANEOUS HEATING OR DECOMPOSITION.

   B. CAUSES SKIN BURNS. (DOT)

   C. STRONG OXIDIZING AGENT. (DOT)

   D. SUBJECT TO HAZARDOUS POLYMERIZATION.

EACH INGREDIENT MEETING ONE OR MORE OF THE ABOVE CRITERIA IS LISTED IN SECTION II IF PRESENT AT A LEVEL AT LEAST GREATER THAN ONE PERCENT. INGREDIENTS WHICH ARE CLAIMED TO BE CARCINOGENS, TERATOGENS, MUTAGENS, OR CAUSATIVE AGENTS OF OTHER REPRODUCTIVE DISORDERS ARE LISTED IF KNOWN OR BELIEVED TO BE PRESENT, PROVIDED THAT THE DATA SUPPORTING SUCH CLAIMS IS CONSIDERED VALID.

EACH HAZARDOUS INGREDIENT IS LISTED BY CHEMICAL, GENERIC, OR PROPRIETARY NAME. ITS LEVEL IN THE PRODUCT IS EXPRESSED AS 1% OR LESS, 1-10%, 10-30%, 30-60%, OR GREATER THAN 60%, OR BY OTHER MEANS.

SECTION III
PHYSICAL DATA

INITIAL BOILING POINT: IF LIQUID AT 68 DEG F.

VAPOR PRESSURE: IF LIQUID AT 68 DEG F OR WHICH SUBLIMES.

VAPOR DENSITY: FOR VOLATILE PORTION OF PRODUCT.

SPECIFIC GRAVITY: IF SPECIFIC GRAVITY OF PRODUCT IS NOT KNOWN, INDICATED AS <1, =1, OR >1.

PERCENT VOLATILES: PERCENTAGE OF MATERIAL WITH INITIAL BOILING POINT BELOW 425 DEG F.

EVAPORATION RATE: INDICATED AS FASTER OR SLOWER THAN ETHYL ETHER, UNLESS STATED.

SECTION IV
FIRE AND EXPLOSION HAZARDS

FLASH POINT: CLOSED CUP.

LOWER EXPLOSION LIMIT: INDICATED FOR COMPONENT WITH LOWEST VALUE.

HAZARDOUS DECOMPOSITION PRODUCTS: KNOWN HAZARDOUS PRODUCTS RESULTING FROM HEATING, BURNING, ETC., OR REACTED RAW MATERIALS WHICH MAY ARISE THROUGH HEATING, BURNING, ETC.

SPECIAL FIREFIGHTING PROCEDURES: INDICATES EQUIPMENT TO PROTECT FIREMEN FROM TOXIC PRODUCTS OF COMBUSTION OR IF WATER IS NOT TO BE USED.

UNUSUAL FIRE AND EXPLOSION HAZARDS: HAZARDS NOT COVERED BY OTHER SECTIONS OF THIS REPORT ARE SHOWN HERE.

SECTION V
HEALTH HAZARD DATA

RECIPIENTS OF THIS DATA SHEET SHOULD CONSULT THE OSHA SAFETY AND HEALTH STANDARDS (29 CFR 1910), PARTICULARLY SUBPART G - OCCUPATIONAL HEALTH AND ENVIRONMENTAL CONTROL, AND SUBPART I - PERSONAL PROTECTIVE EQUIPMENT, FOR GENERAL GUIDANCE ON CONTROL OF POTENTIAL OCCUPATIONAL HEALTH HAZARDS.

PERMISSIBLE EXPOSURE LEVEL: OSHA ESTABLISHED PEL--IF NONE AVAILABLE, ADOPTED VALUE.

EFFECTS OF OVEREXPOSURE: GIVEN IN GENERAL TERMS, LOCAL AND SYSTEMIC EFFECTS TO THE EYES, SKIN, IF MATERIAL IS INHALED, UNLESS NOT APPLICABLE DUE TO PHYSICAL FORM OF PRODUCT.

SECTION VI
REACTIVITY DATA

HAZARDOUS POLYMERIZATION: CONDITIONS TO AVOID HAZARDOUS POLYMERIZATION RESULTING IN A LARGE RELEASE OF ENERGY.

STABILITY: CONDITIONS TO AVOID IF UNSTABLE UNDER NORMAL CIRCUMSTANCES.

INCOMPATIBILITY: MATERIALS TO AVOID.

SECTION VII
SPILL OR LEAK PROCEDURES

REASONABLE PRECAUTIONS TO BE TAKEN AND THE METHODS OF CLEAN-UP TO BE USED IN THE EVENT OF SPILLAGE OF THE PRODUCT. CONSULT FEDERAL, STATE AND LOCAL REGULATIONS FOR ACCEPTED PROCEDURES AND ANY REPORTING OR NOTIFICATION REQUIREMENTS.

SECTION VIII
PROTECTIVE EQUIPMENT TO BE USED

THIS SECTION INDICATES PROTECTIVE EQIUPMENT TO BE USED WHEN HANDLING THE PRODUCT.

SECTION IX
SPECIAL PRECAUTIONS OR OTHER COMMENTS

THIS SECTION IS TO COVER ANY RELEVANT POINTS NOT PREVIOUSLY MENTIONED.

ADDITIONAL COMMENTS

\SHLAND WISHES TO INFORM YOU THAT SERIOUS ACCIDENTS HAVE RESULTED FROM THE MISUSE)F "EMPTIED" CONTAINERS (DRUMS, 1 AND 5 GALLON PAILS, ETC.). REFER TO SECTIONS IV AND IX.

WE RECOMMEND THAT CONTAINERS BE EITHER PROFESSIONALLY RECONDITIONED FOR REUSE BY CERTIFIED FIRMS OR PROPERLY DISPOSED OF BY CERTIFIED FIRMS TO HELP REDUCE THE POSSIBILITY OF AN ACCIDENT. DISPOSAL OF CONTAINERS SHOULD BE IN ACCORDANCE WITH APPLICABLE LAWS AND REGULATIONS. "EMPTY" DRUMS SHOULD NOT BE GIVEN TO INDIVIDUALS.

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SECTION V-HEALTH HAZARD DATA (CONTINUED)

IF IN EYES: FLUSH WITH LARGE AMOUNTS OF WATER, LIFTING UPPER AND LOWER LIDS OCCASIONALLY, GET MEDICAL ATTENTION.

IF SWALLOWED: DO NOT INDUCE VOMITING. CALL PHYSICIAN OR TRANSPORT TO AN EMERGENCY FACILITY.

IF BREATHED: IF AFFECTED, REMOVE INDIVIDUAL TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF BREATHING HAS STOPPED GIVE ARTIFICIAL RESPIRATION. KEEP PERSON WARM, QUIET AND GET MEDICAL ATTENTION. DO NOT GIVE STIMULANTS. EPINEPHRINE OR EPHEDRINE MAY ADVERSELY AFFECT THE HEART WITH FATAL RESULTS.

SECTION VI-REACTIVITY DATA

HAZARDOUS POLYMERIZATION: CANNOT OCCUR

STABILITY: STABLE

INCOMPATIBILITY: AVOID CONTACT WITH:, ALUMINUM

SECTION VII-SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

SMALL SPILL: ABSORB LIQUID ON PAPER, VERMICULITE, FLOOR ABSORBENT, OR OTHER ABSORBENT MATERIAL AND TRANSFER TO HOOD.

LARGE SPILL: PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP HAS BEEN COMPLETED. STOP SPILL AT SOURCE, DIKE AREA OF SPILL TO PREVENT SPREADING, PUMP LIQUID TO SALVAGE TANK. REMAINING LIQUID MAY BE TAKEN UP ON SAND, CLAY, EARTH, FLOOR ABSORBENT, OR OTHER ABSORBENT MATERIAL AND SHOVELED INTO CONTAINERS.

WASTE DISPOSAL METHOD:

SMALL SPILL: ALLOW VOLATILE PORTION TO EVAPORATE IN HOOD. ALLOW SUFFICIENT TIME FOR VAPORS TO COMPLETELY CLEAR HOOD DUCT WORK. DISPOSE OF REMAINING MATERIAL IN ACCORDANCE WITH APPLICABLE REGULATIONS.

LARGE SPILL: DESTROY BY LIQUID INCINERATION WITH OFF-GAS SCRUBBER. CONTAMINATED ABSORBENT MAY BE DEPOSITED IN A LANDFILL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION VIII-PROTECTIVE EQUIPMENT TO BE USED

RESPIRATORY PROTECTION: IF TLV OF THE PRODUCT OR ANY COMPONENT IS EXCEEDED, A NIOSH/MSHA JOINTLY APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS UNDER SPECIFIED CONDITIONS. (SEE YOUR SAFETY EQUIPMENT SUPPLIER). ENGINEERING OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.

VENTILATION: PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

PROTECTIVE GLOVES: WEAR RESISTANT GLOVES SUCH AS:, POLYVINYL ALCOHOL

EYE PROTECTION: CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS ARE ADVISED; HOWEVER, OSHA REGULATIONS ALSO PERMIT OTHER TYPE SAFETY GLASSES. (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER)

OTHER PROTECTIVE EQUIPMENT: TO PREVENT REPEATED OR PROLONGED SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.

SECTION IX-SPECIAL PRECAUTIONS OR OTHER COMMENTS

OVEREXPOSURE TO COMPONENT CAN RAISE THE LEVEL OF CARBON MONOXIDE IN THE BLOOD CAUSING CARDIOVASCULAR STRESS.

CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUES (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THE DATA SHEET MUST BE OBSERVED.

OVEREXPOSURE TO MATERIAL HAS APPARENTLY BEEN FOUND TO CAUSE THE FOLLOWING EFFECTS IN LABORATORY ANIMALS:, LIVER ABNORMALITIES, LUNG DAMAGE

THE INFORMATION ACCUMULATED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE WHETHER ORIGINATING WITH ASHLAND OR NOT. RECIPIENTS ARE ADVISED TO CONFIRM IN ADVANCE OF NEED THAT THE INFORMATION IS CURRENT, APPLICABLE, AND SUITABLE TO THEIR CIRCUMSTANCES.

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ENVIRONMENTALLY SAFE

October 6, 1987

Mr. Dick Rose
Zero Disposal Marketing
7310 East 22nd Street
Suite 160
Tucson, Arizona 85710

RE: Waste Data Sheet Questions

Dear Mr. Rose:

Thank you for your interest in Marine Shale Processors, Inc. We are currently reviewing a waste data sheet that lacks certain data necessary for approval.

WASTE STREAM: Methylene Chloride

DATA NECESSARY: Correct (interchange) EPA Waste# and DOT ID#.

A short cover letter or an amended data sheet with current original date and generator signature will be sufficient. Please have the generator reference MSP Document Number 872773 on the top of the revised data sheet. It is imperative that this document number is referenced. If you have any questions, feel free to contact me at anytime.

872751 corrected

Sincerely,

Jeffrey P. Litch

JPL/bf

MARINE SHALE PROCESSORS, INC. CORPORATE HEADQUARTERS
10 JAMES DRIVE WEST • SUITE 120 • SAINT ROSE, LA. 70087 A Suburb of New Orleans
TELEPHONE (504) 465-3300
TELEFAX (504) 465-3344

RECERTIFICATION OF MATERIAL CHARACTERIZATION DATA SHEET

MSP Approval Code

ZDM /BM /8703151/ /

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: Zero Disposal Marketing, Inc.
7310 E. 22nd Street, Suite 160
Tucson, AZ 85710
Attention: Technical Review

A. GENERAL INFORMATION

Generator Name: BAYLINER MARINE CORP. Telephone: (602) 757-3173 x.0000

Facility Address: 1545 Interstate Way USEPA ID: AZD980892558

Kingman, AZ 86401-0000

Name of Waste: METHYLENE CHLORIDE Generating Process: _____

Technical Contact: ~~Mike~~ ~~Schoeff~~ Doug Shaner Title: ~~Plt Mgr~~ MAINTENANCE MANAGER

B. CHANGES OR ADDITIONS SINCE LAST MCDS PREPARATION

Have you obtained any laboratory analysis of this waste? *(If yes, attach results)*	☐ yes	☑ no
Have you changed the raw materials used in the waste generating process?	☐ yes	☑ no
3. Have you changed the waste generating process itself?	☐ yes	☑ no
4. Are you aware of any facts or circumstances which have, or reasonably could have, altered the physical or hazardous characteristics, or chemical composition of the waste?	☐ yes	☑ no
5. Are you aware of any human health effects of exposure to the waste not previously described?	☐ yes	☑ no

6. If you answered "yes" to questions 2, 3, 4, or 5, please provide details below:

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

SHIPPING INFORMATION

Method of Shipment: ☐ Bulk Liquid ☐ Bulk Solid ☑ Drum (type/size) 55 GAL STEEL OPEN HEAD

Anticipated Volume: 12 Gals. 55 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 recertified waste profile sheet attached hereto, and the information supplied above, are complete, true and correct.

DOUG SHANER

Name: DOUG SHANER Signature: Doug Shaner

Title: MAINTENANCE MANAGER Date: 3-9-89 3-9-89

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ZERO DISPOSAL MARKETING, Inc.

October 24, 1989

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

Attention: Mike Jaubert

Dear Mike:

Regarding Bayliner Marine (Kingman, AZ) waste stream ZDM/BMC-873151..Waste Methylene Chloride (F001-R); a updated analysis indicated a chemical composition containing substantially less Methylene Chloride (and azeotropic other chlorinated solvents) than previously reported on the MCDS submitted 10/13/87.

A representative sample of chlorinated resin was taken immediately after generation and rushed for analysis to determine the maximum parameter of chlorinated chemicals present. It can now be reported that this maximum content is 20%, further, that percentage drops rapidly with storage and, after 90 days, is under 10%. Since Bayliner is a conditionally exempt S.Q.G., the resin waste being shipped out after a typical 240 days is likely to be nearly free of chlorinated chemical. We are, therefore, revising chemical composition to 0% to 20% and, as a consequence, ncreasing Resins (as a component) to 80% to >99%. All else remains unchanged. I have enclosed a request from Don Barnhill, Safety Director of Bayliner's parent corporation authorizing this revision, as well as the MSP pricing reduction we anticipate it will generate. There are, incidently, three 55 gallon drums of this material on-site, nearing 220 days; your assistance in expediting this matter will be greatly appreciated.

Thank you, once again, for your consistent cooperation and support. I will be looking forward to hearing from you soon.

Sincerely,

ZERO DISPOSAL MARKETING, INC.

Richard L. Rose
Vice President

RLR:r

7310 E. 22nd St. • Suite 160 • Tucson, Arizona 85710 • (602) 885-7061 • Fax: (602) 885-1633

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NOV 08 1989

US MARINE
A Brunswick Company

October 19, 1989

Dick Rose
Zero Disposal Marketing, Inc.
7310 E. 22nd Street, Suite 160
Tucson, AZ 85710

Dear Mr. Rose,

Due to the reduced level of chlorinated solvents (methylene chloride) in the recent lab analysis from the waste stream generated at our Kingman, Arizona facility, please consider this request for a price reduction on the three drums of hazardous waste.

If I can be of further assistance, please call (206)435-5571.

Thank you,

Don

Don Barnhill
Safety Director

cc: Bob Teague
Mike Schoeff

MSD007

MATERIALS CHARACTERIZATION DATA SHEET

MCDS Document # 873151.00.11.07

NOV 03 1989

MSP CODE: ZDM/AMC-873151

ZDH CODE: BM-RLR-64

Generator Name Bayliner Marine Corp.
Facility Address 1515 Interstate Way

City, State, Zip Kingman, AZ 86401
Technical Contact Bud Ezzell Doug Shaver
Title Safety & Compliance Officer
Telephone NO. (602) 757-3172 EXT:
Facility EPA ID # AZD 980892550

Bill To: ZERO DISPOSAL MARKETING
Company Contact: Dick Rose
Container Size: 55 gallon
EPA Waste No. F-001
Generating Process Clean Boat parts on manufacture
Common Name of Waste Methylene Chloride
Rate of Generation 1 (Quan) drum (Unit) per month
Volume in Storage 2 (Quan) drums (Unit) IN 55 gal drums (Container Size and Type)
Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name Waste Methylene Chloride
Hazard Class ORM-A ID No. UN-2831
Transportation Equipment VAN
Placarding Dangerous (Mixed Loads)

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Methylene Chloride	94%-99%	%
Resins Polyester(Jelcoat)	1%-5%	%
Oil & Grease Solids	0%-5000 ppm	%
Fiberglass Pieces(small)	0%-5000 ppm	%
		%
		%
		%

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 (Fb)	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
Methoxychlor	0	Mercaptans	0
Toxaphene	0		
2, 4-5	0		
2,4,5-T	0		
Phenolics)	0		
PCBs	0		
Dioxin	0		
TOC	0		

PHYSICAL DESCRIPTION

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

Total Solids (wt. %) Under 1% Suspended Solids (wt. %) Under 1%
BTU/lb 700-750 % Ash Content Unknown % Water (by weight)
Flash Point (°F) None Type None
Specific Gravity 1.335
Boiling Point, (°C) 40° Freezing Point, (°F) -36.1° F
Vapor Pressure (mm Hg @ 24°C) Unknown
pH (Avg) Neutral (Range) 6.9 to 7.1
Total Alkalinity/Acidity (%) Max. Acidity 0.001
Odor Ether Like
Color Colorless

HAZARDOUS PROPERTIES

[ ] Water Reactive	[ ] Reactive	[ ] NONE	
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Explosive	
[ ] Radioactive	[ ] Pesticide Residuals	[ ] Polymrizable	
[ ] Corrotive	[X] Toxic Vapor	[ ] Ignitable	
[ ] Biological	[ ] Etiological	[ ] Pathogen	

[X] Other Irritant

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES: Wear full protective clothing and self-contained breathing apparatus

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 October 13, 1987 GENERATOR'S SIGNATURE: Bruce Ezzell

MSP FORM 1060 (REV. 10/87)

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NOV 08 1989

American Analytical Laboratories

LABORATORY ANALYSIS REPORT

ode: ZERO
ERO DISPOSAL
TTN.: DICK ROSE
310 E. 22ND ST. #160
UCSON, AZ 85710-

SAMPLE INFORMATION
Sample..: 001947-01
Clnt Smp:
Descript: FIBERGLASS RESIN
Location: BAYLINER, KINGMAN AZ
Samp D/T: 09/18/89
Sampler.: M. SCHOEFF
Trans By: D. ROSE
Recvd By: L. STALLARD
Date Rcv: 09/25/89
Date Rpt: 10/09/89

Analysis	MDL	Results
VOC'S VOLATILE HALOG. ORG./HAZ WASTE		
1,1,1-TRICHLOROETHANE		
1,1,2-TRICHLOROETHANE		
1,1,2-TRICHLOROETHYLENE (TCE)		
1,1,2-TRICHLOROTRIFLUOROMETHAN		
1,1-DICHLORETHANE		
1,1-DICHLOROETHYLENE		
1,2-DICHLOROBENZENE		
1,2-DICHLOROETHANE		
1,3-DICHLOROBENZENE		
1,3-DICHLOROPROPANE		
1,4-DICHLOROBENZENE		
2-CHLOROETHYLVINYL ETHER		
BROMOCHLOROMETHANE		
BROMOMETHANE		
C-1,2-DICHLOROETHYLENE		
C-1,3-DICHLOROLPROPENE		
CARBONTETRACHLORIDE		

mments:
ll units are MG/L unless otherwise specified.
means analyte not detected.
is the Method Detection Limit.

Analyst(s)

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American Analytical Laboratories

LABORATORY ANALYSIS REPORT

Code: ZERO
ZERO DISPOSAL
ATTN.: DICK ROSE
7310 E. 22ND ST. #160
TUCSON, AZ 85710-

SAMPLE INFORMATION
Sample..: 001947-01
Clnt Smp:
Descript: FIBERGLASS RESIN
Location: BAYLINER, KINGMAN AZ
Samp D/T: 09/18/89
Sampler.: M. SCHOEFF
Trans By: D. ROSE
Recvd By: L. STALLARD
Date Rcv: 09/25/89
Date Rpt: 10/09/89

Analysis	MDL	Results
CHLOROBENZENE		
CHLOROETHANE		
CHLOROFORM		
CHLOROMETHANE		
DIBROMOCHLORMETHANE		
DIBROMOETHANE		
METHYLENE CHLORIDE		20%
T-1,2-DICHLOROETHYLENE		
T-1,3-DICHLOROPROPENE		
TETRACHLOROETHYLENE (PERC)		
TRICHLOROFLUOROMETHANE		
VINYL CHLORIDE		
%/SURROGATE STANDARD RECOVERY		

omments:
All units are MG/L unless otherwise specified.
means analyte not detected.
is the Method Detection Limit.

Analyst(s)

3441 East Milber St. Tucson, AZ 85714

Phoenix 602-866-3110

Tucson 602-889-5787

MAR 08 1990

RECERTIFICATION OF MATERIAL CHARACTERIZATION DATA SHEET

MSP Approval Code: ZDM /BM /8703151/ /

e printed: 2/20/90 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: BAYLINER MARINE CORP. Telephone: (602) 757-3173 x.0000

Facility Address: 4545 Interstate Hwy USEPA ID: AZD980892558

Kingman, AZ 86401-0000

Name of Waste: METHYLENE CHLORIDE Generating Process: _____

Technical Contact: Mike Schoeff Title: Plt Mgr

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 Steel Openhead

Anticipated Volume: _____ Gals. 110 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 C.D.S. attached hereto, and the information supplied above, are complete, true and correct.

Name: DONALD N. BACHTELL Signature: Donald N. Bachtell

Title: Safety Dir Date: 5 MAR 90

P Form 1040-B (November 89)

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MATERIALS CHARACTERIZATION DATA SHEET

7301 E. 22nd Street, Suite 4C
Tucson, AZ 85710
(602) 885-7061

For MSP Use Only
Approval Code ZDM/BM/8703151

A. General Information

Company Name Bayliner Marine Corp.
Address 4545 Interstate Way
City Kingman State AZ Zip Code 86401
Generator Contact Mike Schoeff
Title Plant Manager
Telephone No. (602) 757-3173
Facility EPA I.D. No. AZD 980/892/558

B. Customer Information

Company Name Zero Disposal Marketing, Inc.
Contact Dick Rose
Address 7301 E. 22nd St, Suite 4C
Tucson, AZ 85710
Telephone No. (602) 885-7061
For Customer Use FAX (602) 885-1633

C. Regulatory Information

☒ RCRA Regulated ☒ 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
Resins (Jelcoat) Polyester	90%	99%
Methylene Chloride	01%	10%
Oil/Grease Solids	00%	01%
Small Fiberglass Pieces	00%	01%

Common Name of Waste: Boat Parts Cleaner

E. General Characteristics

Color Clear to watery white

Odor: ☐ None ☒ Mild ☐ Strong

☒ Liquid ☐ Sludge ☐ Solid ☐ Powder

Phase: ☒ Single Layer ☐ Double Layer ☐ Multi-Layer

F. Specific Characteristics

Is the waste:

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

G. Physical/Chemical Properties

Ash (list actual Wt %): <2.0

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): 12,000

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 Neutral

Flash Point (closed cup): ☐ < 100°F ☐ > 200°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	☒	☐	☐	None suspected
☐ Bromine	☒	☐	☐	" " " "
☐ Chlorine	☒	☐	☐	" " " "
☐ Fluorine	<1 actual	☐	☐	" " " "

Metals EP Toxicity Test (MG/L)

Arsenic (As)	None	Selenium (Se)	None
Barium (Ba)	None	Silver (Ag)	None
Cadmium (Cd)	None	Copper (Cu)	None
Chromium (Cr)	None	Nickel (Ni)	None
Lead (Pb)	None	Zinc (Zn)	None
Mercury (Hg)	None		

Organics (ppm)

Endrin	None	If material contains the following compounds, indicate actual ppm:	
Lindane	None		
Methoxychlor	None	PCB	None
Toxaphene	None	Cyanides	None
2,4-D	None	Sulfides	None
2,4,5 TP (Silvex)	None	Dioxin	None

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

RECYCLE / REUSE

MANIFEST Nº 907703

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

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. C O 1 1 5 0 0 9 0 0 4 0 0 0 1 2 9 — 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
Drug Enforcement Administration
721 19th Street
Denver, CO 80202

4. Generator's Phone (303) 844-3951

5. Transporter 1 Company Name: Denver & Rio Grande Railroad
6. US EPA ID Number: C O D 0 0 6 9 1 5 3 5 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: L A D 9 8 1 0 5 7 7 0 6

A. State Manifest Document Number: LA 907703
B. State Generator's ID:
C. State Transporter's ID:
D. Transporter's Phone: (303) 629-5533
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.	I. Waste No.
a. Salicylic Acid, Non-Regulated	0 0 1	D F	0.2 5	P	Non Regulated R
b. Methylamine (Aqueous Solution), Flammable Liquid, UN1235	0 0 1	D F	1	G	D001 R
c. Acetic Anhydride, Corrosive Material, UN1715	0 0 1	D F	0.5	G	D002 R
d. Butyl Alcohol, Flammable Liquid, NA1120	0 0 1	D F	0.2 5	G	U031 R

J. Additional Descriptions for Materials Listed Above — RECYCLE/REUSE
ETE/DRG/XX 8902832 LPI
Downtown

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	Signature	Month Day Ye.
Larry R. Smith		10 15 13 0 18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Ye.
Kenneth A Armbrust	Kenneth A Armbrust	15-BY-18

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Ye.

19. Discrepancy Indication Space

FACILITY

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

Printed/Typed Name	Signature	Month Day Ye.
Dick J. Creppell		10 19 8

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

RECYCLE / REUSE

MANIFEST Nº 907702

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

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. C O 1 1 1 5 0 0 9 0 0 4 0 0 0 1 2 8 — 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
Drug Enforcement Administration
721 19th Street
Denver, CO 80202

4. Generator's Phone (303) 844-3951

A. State Manifest Document Number 907702

B. State Generator's ID

5. Transporter 1 Company Name: Denver & Rio Grande Railroad — 6. US EPA ID Number: C O D 0 0 6 9 1 5 3 5 9

C. State Transporter's ID

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

D. Transporter's Phone (303) 629-5533

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

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.	I. Waste No.
a. Phenylacetic Acid, Corrosivex Acid NOS, UN1759	0 0 1	D F	2	P	R D002
b. Sodium Thiosulfate, Non-Regulated	0 0 1	D F	5	P	Non-R Regulated
c. Sodium Cyanide (Solid), Poßison B, UN1689	0 0 1	D F	2	P	R P106
d. Sodium Hydroxide, Corrosive Material, UN1823	0 0 1	D F	2	P	R D002

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
ETE/DRG/8902832 LP-5
Downtown

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: Larry R. Smith — Signature — Month Day Year: 0 6 0 8 8 9

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Kenneth R Armbrust — Signature — Month Day Year: 06 21 89

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: Dick J. Crosswell — Signature — Month Day Year

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MSD007

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

RECYCLE / REUSE

MANIFEST Nº 907622

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

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CA1115101910141 Manifest Document No. 001272

2. Page 1 of 1

Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Drug Enforcement Administration
721 19th Street
Denver, CO 80202

4. Generator's Phone (303) 844-3951

5. Transporter 1 Company Name
Denver & Rio Grande Railroad

6. US EPA ID Number
COD006915359

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: 90762

B. State Generator's ID:

C. State Transporter's ID:

D. Transporter's Phone: (303) 629-5533

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. Methanol, Flammable Liquid, UN1230	001	DF	0025	G	R D001
b. Potassium Chromate, Poisonous Solid, UN2811	001	DF	0025	P	R D007
c. Magnesium Powder, Flammable Solid, UN1418	001	DF	0025	P	R D001
d. Potassium Cyanide (Solid), Poison B, UN1680	001	DF	0002	P	R P098

J. Additional Descriptions for Materials Listed Above: RECYCLE/REUSE
DEA/DRG/8902832-FLO
Downtown

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	Signature	Month	Day	Year
Larry R. Smith		10	13	1018

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Kenneth M Bombrest	Kenneth M Bombrest	10	18	89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

FACILITY

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

Printed/Typed Name	Signature	Month	Day	Year
Dicky D. Cundiff	Dicky D. Cundiff	10	10	1918

EPA Form 8700-22 (Rev. 9-88) WHITE - RED, GREEN - Generator, YELLOW - [illegible]

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MSD007

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 4307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST Nº 907621

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

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. C I O 1 1 1 5 1 0 1 0 1 9 8 0 0 1 4 1 0	Manifest Document No. 907621	2. Page 1 of 1	Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address
Drug Enforcement Administration
721 19th Street
Denver, CO 80202

4. Generator's Phone (303) 844-3951

5. Transporter 1 Company Name
Denver & Rio Grande Railroad

6. US EPA ID Number C O D 0 0 6 9 1 5 3 5 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 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. Hydrochloric Acid, Corrosive Material, UN1789	0 0 2	D F	0.7 5	G	D002
b. Sulfuric Acid, Corrosive Liquid, UN1830	0 0 1	D F	0.5 0	G	D002
c. Sodium Acetate, Corrosive Solid, UN1759	0 0 1	D F	1 6	P	D002
d. Hydriotic Acid, Corrosive Liquid, UN1787	0 0 1	D F	1 0 2 5	G	D002

12. Material Descriptions for Materials Listed Above — RECYCLE / REUSE

SN: 75RG/8902832

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.

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Printed/Typed Name	Signature	Month	Day	Year
Larry R. Smith		0 5	3 0	8 9

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Kenneth A Armbrust	Kenneth A Armbrust	0 5	3 1	8 9

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

FACILITY

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

Printed/Typed Name	Signature	Month	Day	Year
Dirke T. Crenshaw				

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

RECYCLE / REUSE

MANIFEST Nº 907156

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. C O 1 1 5 0 0 9 0 0 4 0 0 0 1 3 0 — 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
Drug Enforcement Administration
721 19th Street
Denver, CO 80202

A. State Manifest Document Number 907156

4. Generator's Phone (303) 844-3951

B. State Generator's ID

5. Transporter 1 Company Name
Denver & Rio Grande Railroad

6. US EPA ID Number C O D 0 0 6 9 1 5 3 5 1 9

C. State Transporter's ID

D. Transporter's Phone (303) 629-5533

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. Phenoxy Pesticide Liquid, NOS, UN2766	0 0 1	D F	1 0 2 5	P	D001
b. Phenyl Acetic Acid, Corrosive Material, UN1759	0 0 7	D F	1 3 8 5	P	D002
c.					
d.					

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
EIE/DRG/8902832 4(u)-Doconfed
Dister-120 Shel

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.

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Printed/Typed Name	Signature	Month Day Year
Larry R. SMith		10 15 13 10 18 19

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
KENNETH A BARNHURST		15 BK 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

19. Discrepancy Indication Space

FACILITY

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

Printed/Typed Name	Signature	Month Day Year
Dicky J. Carroll		06 09 89

EPA Form 8700-22 (Rev. 9-88) WHITE - DESIGNATED FACILITY; YELLOW - GENERATOR; BLUE - TRANSPORTER; GOLD - GENERATOR

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DATA SHEETS

8902832
MCDS Document #

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

MAY 24 1989

SALES (504) 465-3310

MSP CODE: _____

Generator Name: Drug Enforcement Administration
Facility Address: 721 19th Street
City, State, Zip: Denver, CO 80202
Technical Contact: _____
Title: Special Agent
Telephone No.: (303) 844-3951 EXT. _____
Facility EPA ID #: CO1150090040

Bill To: E.T. Technologies, Inc.
Company Contact: Jim Sinclair
Container Size: 20 & 5 Gallon Lab Packs
EPA Waste No.: See Lab Pack Inventory Sheets
Generating Process: Drug Production
Common Name of Waste: _____
Rate of Generation: _____ PER _____
Volume in Storage: _____ IN _____
Is Waste DOT Hazardous: [ ] YES [ ] NO
Proper DOT Shipping Name: See Lab Pack Inventory Shee
Hazard Class: _____ ID No: _____
Transportation Equipment: Van/Rail
Placarding: _____

CHEMICAL COMPOSITION (No Trade Name)

Totals must add up to 100%

See Attached Lab Pack Inventory Sheets _____ %
_____ %
_____ %
_____ %
_____ %
_____ %
_____ %

METALS (EP Toxicity Test, mg/l)

Arsenic (As)		Silver (Ag)	
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		Iodine	
Free CN		Asbestos	
Sulfide			
Chloride			
Fluoride			
Sulfite			
Sulfate			
Phosphate			
Fluorine			
Bromine			
Chlorine			

ORGANICS (mg/l or ppm)

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

PHYSICAL DESCRIPTION

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

Total Solids (wt. %) _____ Suspended Solids (wt. %) _____
BTU/lb _____ % Ash Content _____ % Water (by weight) _____
Flash Point (°F) _____ Type _____
Specific Gravity _____
Boiling Point (°C) _____ Freezing Point (°C) _____
Vapor Pressure (mm Hg @ 24°C) _____
pH (As is) _____ (Range) _____ to _____
Total Alkalinity/Acidity (as) _____
Odor _____
Color _____

HAZARDOUS PROPERTIES

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

[ ] Other _____

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

_____
_____
_____
_____
_____
_____

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

CERTIFICATION: I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE 5/10/89 GENERATOR'S SIGNATURE: _____

MSP SIGNATURE (IF REQUIRED)

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Date
U.S. MANIFESTS
MSD007

M-1

GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Downtown Denver GENERATOR EPA ID: CO1150090040

AE PACK CONTAINER NO: DDL-001 PAGE 1 OF 27

DOT DESCRIPTION: Hydrochloric Acid UN/NA NO: UN1789
(Circle One)

CONTAINER SIZE: 5 Gallon CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Hydrochloric Acid	1	¼ Gal.	Corrosive Material	UN1789	D002
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						

I AM AN AUTHORIZED EMPLOYEE OF E.T. TECHNOLOGIES, INC.
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Jim Sinclair
SIGNATURE

2. May 18, 1989
DATE

3. Jim Sinclair
NAME (Type or Print)

4. Project Supervisor
TITLE

MSD

GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Downtown Denver GENERATOR EPA ID: CO1150090040

LAB PACK CONTAINER NO: DDL-002 PAGE 2 OF 27

DOT DESCRIPTION: Hydrochloric Acid UN/NA NO: UN1789

CONTAINER SIZE: 5 Gallon (30 Gal. or less) CONTAINER TYPE: Poly (Circle One) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Hydrochloric Acid	1	1/3 Gal.	Corrosive Material	UN1789	D002
02						
03						
04						
05						
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16						

I AM AN AUTHORIZED EMPLOYEE OF E.T. TECHNOLOGIES, INC. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [signature] SIGNATURE

2. May 18, 1989 DATE

3. Jim Sinclair NAME (Type of Print)

4. Project Supervisor TITLE

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MSD007

MSP

GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Downtown Denver GENERATOR EPA ID: CO1150090040

AP PACK CONTAINER NO: DDL-003 PAGE 3 OF 27

DOT DESCRIPTION: Sulfuric Acid UN/NA NO: UN1830
(Circle One)

CONTAINER SIZE: 5 Gallon CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Sulfuric Acid	1	½ Gal.	Corrosive Liquid	UN1830	D002
02						
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1. Jim Sinclair
SIGNATURE

2. May 18, 1989
DATE

3. Jim Sinclair
NAME (Type or Print)

4. Project Supervisor
TITLE

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MSP

GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Downtown Denver GENERATOR EPA ID: CO1150090040

AE PACK CONTAINER NO: DDL-004 PAGE 4 OF 27

DOT DESCRIPTION: Corrosive Solid NOS UN/NA NO: UN1759 (Circle One)

CONTAINER SIZE: 5 Gallon (30 Gal. or less) CONTAINER TYPE: Poly (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Sodium Acetate	1	6 Lbs.	Corrosive Solid	UN1759	D002
02						
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04						
05						
06						
07						
08						
09						
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16						

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1. Jim Sinclair
SIGNATURE

2. May 18, 1989
DATE

3. Jim Sinclair
NAME (Type or Print)

4. Project Supervisor
TITLE

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MSD007

MSF

GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Downtown Denver GENERATOR EPA ID: CO1150090040

AE PACK CONTAINER NO: DDL-005 PAGE 5 OF 27

DOT DESCRIPTION: Lead Acetate UN/NA NO: UN1616
(Circle One)

CONTAINER SIZE: 5 Gallon CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Lead Acetate	1	8 Lbs.	Poisonous Solid	UN1616	U144
02						
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I AM AN AUTHORIZED EMPLOYEE OF E.T. TECHNOLOGIES, INC.
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1. Jim Sinclair
SIGNATURE

2. May 18, 1989
DATE

3. Jim Sinclair
NAME (Type or Print)

4. Project Supervisor
TITLE

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MIF

GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Downtown Denver GENERATOR EPA ID: CO1150090040

LAB PACK CONTAINER NO: DDL-006 PAGE 6 OF 27

DOT DESCRIPTION: Hydriotic Acid, Solution UN/NA NO: UN1787
(Circle One)

CONTAINER SIZE: 5 Gallon CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Hydriotic Acid	1	¼ Gal.	Corrosive Liquid	UN1787	D002
02						
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04						
05						
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16						

I AM AN AUTHORIZED EMPLOYEE OF E.T. TECHNOLOGIES, INC.
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1. Jim Sinclair
SIGNATURE

2. May 18, 1989
DATE

3. Jim Sinclair
NAME (Type or Print)

4. Project Supervisor
TITLE

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MSD007

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GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Downtown Denver GENERATOR EPA ID: CO1150090040

AP PACK CONTAINER NO: DDL-007 PAGE 7 OF 27

DOT DESCRIPTION: Methanol UN/NA NO: UN1230 (Circle One)

CONTAINER SIZE: 5 Gallon (30 Gal. or less) CONTAINER TYPE: Poly (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Methanol	1	3 Pints	Flammable Liquid, Poison	UN1230	D001
02						
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06						
07						
08						
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16						

I AM AN AUTHORIZED EMPLOYEE OF E.T. TECHNOLOGIES, INC.
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Jim Sinclair
SIGNATURE

2. May 18, 1989
DATE

3. Jim Sinclair
NAME (Type or Print)

4. Project Supervisor
TITLE

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GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Downtown Denver GENERATOR EPA ID: CO1150090040

AF PACK CONTAINER NO: DDL-008 PAGE 8 OF 27

DOT DESCRIPTION: Poisonous Solid NOS UN/NA NO: UN2811
(Circle One)

CONTAINER SIZE: 5 Gallon CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Potassium Chromate	1	¼ lb.	Poisonous Solid	UN2811	D002
02						
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16						

I AM AN AUTHORIZED EMPLOYEE OF E.T. TECHNOLOGIES, INC.
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. _____ 2. May 18, 1989
SIGNATURE DATE

3. Jim Sinclair 4. Project Supervisor
NAME (Type or Print) TITLE

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MF

GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Downtown Denver GENERATOR EPA ID: CO1150090040

AP PACK CONTAINER NO: DDL-009 PAGE 9 OF 27

DOT DESCRIPTION: Magnesium Powder UN/NA NO: UN1418
(Circle One)

CONTAINER SIZE: 5 Gallon CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Magnesium Powder	1	¼ Lb.	Flammable Solid	UN1418	D001
02						
03						
04						
05						
06						
07						
08						
09						
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14						
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16						

I AM AN AUTHORIZED EMPLOYEE OF E.T. TECHNOLOGIES, INC.
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [signature] 2. May 18, 1989
SIGNATURE DATE

3. Jim Sinclair 4. Project Supervisor
NAME (Type or Print) TITLE

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MSD007

MSP

GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Downtown Denver GENERATOR EPA ID: CO1150090040

AE PACK CONTAINER NO: DDL-010 PAGE 10 OF 27

DOT DESCRIPTION: Sodium Fluoride, Solid UN/NA NO: UN1690 (Circle One)

CONTAINER SIZE: 5 Gallon (30 Gal. or less) CONTAINER TYPE: Poly (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Sodium Fluoride	1	6 Lbs.	ORM-B	UN1690	P058
02						
03						
04						
05						
06						
07						
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I AM AN AUTHORIZED EMPLOYEE OF E.T. TECHNOLOGIES, INC.
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. _____ SIGNATURE

2. May 18, 1989 DATE

3. Jim Sinclair NAME (Type of Print)

4. Project Supervisor TITLE

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MSD007

MSDS

GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Downtown Denver GENERATOR EPA ID: CO1150090040

LAB PACK CONTAINER NO: DDL-011 PAGE 11 OF 27

DOT DESCRIPTION: Potassium Cyanide, Solid UN/NA NO: UN1680
(Circle One)

CONTAINER SIZE: 5 Gallon (30 Gal. or less) CONTAINER TYPE: Poly (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Potassium Cyanide	1	2 Lbs.	Poison B	UN1680	P098
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1. _____ SIGNATURE

2. May 18, 1989 DATE

3. Jim Sinclair NAME (Type or Print)

4. Project Supervisor TITLE

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MSD007

MEF

GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Downtown Denver GENERATOR EPA ID: CO1150090040

LAB PACK CONTAINER NO: DDL- 012 PAGE 12 OF 27

DOT DESCRIPTION: Corrosive Solid, NOS UN/NA NO: UN1759
(Circle One)

CONTAINER SIZE: 5 Gallon CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Phenylacetic Acid	1	2 Lbs.	Corrosive Material	UN1759	D001
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1. Jim Sinclair
SIGNATURE

2. May 18, 1989
DATE

3. Jim Sinclair
NAME (Type of Print)

4. Project Supervisor
TITLE

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MSP

GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Downtown Denver GENERATOR EPA ID: CO1150090040

AP PACK CONTAINER NO: DDL- 013 PAGE 13 OF 27

DOT DESCRIPTION: Non-regulated UN/NA NO: Non-Regulated

CONTAINER SIZE: 5 Gallon (Circle One) CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Sodium Thiosulfate	1	5 Lbs.	Non-Regulated	Non-Regulated	
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1. Jim Sinclair
SIGNATURE

2. May 18, 1989
DATE

3. Jim Sinclair
NAME (Type or Print)

4. Project Supervisor
TITLE

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MSD007

MSDS

GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Downtown Denver GENERATOR EPA ID: CO1150090040

LAB PACK CONTAINER NO: DDL-014 PAGE 14 OF 27

DOT DESCRIPTION: Sodium Cyanide, Solid UN/NA NO: UN1689

CONTAINER SIZE: 5 Gallon (30 Gal. or less) CONTAINER TYPE: Poly (Fiber or Poly) (Circle One)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Sodium Cyanide	1	2 Lbs.	Poison B	UN1689	P106
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1. [signature] SIGNATURE

2. May 18, 1989 DATE

3. Jim Sinclair NAME (Type or Print)

4. Project Supervisor TITLE

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MSD007

MEP

GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Downtown Denver GENERATOR EPA ID: CO1150090040

AE PACK CONTAINER NO: DDL-015 PAGE 15 OF 27

DOT DESCRIPTION: Sodium Hydroxide, Solid UN/NA NO: UN1823
(Circle One)

CONTAINER SIZE: 5 Gallon CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Sodium Hydroxide	1	2 Lbs.	Corrosive Material	UN1823	D002
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1. Jim Sinclair
SIGNATURE

2. May 18, 1989
DATE

3. Jim Sinclair
NAME (Type or Print)

4. Project Supervisor
TITLE

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MSP

GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Downtown Denver GENERATOR EPA ID: CO1150090040

AE PACK CONTAINER NO: DDL-016 PAGE 16 OF 27

DOT DESCRIPTION: Non-Regulated UN/NA NO: Non-Regulated
(Circle One)

CONTAINER SIZE: 5 Gallon CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Salicylic Acid	1	¼ Lb.	Non-Regulated		
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1. _____ 2. May 18, 1989
SIGNATURE DATE

3. Jim Sinclair 4. Project Supervisor
NAME (Type or Print) TITLE

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MSF

GENERATOR NAME: Drug Enforcement Administration DATE: May 16, 1989

GENERATOR LOCATION: Downtown Denver GENERATOR EPA ID: CO1150090040

LAB PACK CONTAINER NO: DDL-017 PAGE 17 OF 27

DOT DESCRIPTION: Methylamine, Aqueous Solution UN/NA NO: UN1235
(Circle One)

CONTAINER SIZE: 5 Gallon (30 Gal. or less) CONTAINER TYPE: Poly (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Methylamine	1	1 Gal.	Flammable Liquid	UN1235	D001
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1. _____ SIGNATURE

2. May 18, 1989 DATE

3. Jim Sinclair NAME (Type or Print)

4. Project Supervisor TITLE

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MSP

GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Downtown Denver GENERATOR EPA ID: CO1150090040

LAB PACK CONTAINER NO: DDL-018 PAGE 18 OF 27

DOT DESCRIPTION: Acetic Anhydride UN/NA NO: UN1715
(Circle One)

CONTAINER SIZE: 5 Gallon (30 Gal. or less) CONTAINER TYPE: Poly (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Acetic Anhydride	1	½ Gal.	Corrosive Material	UN1715	D002
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1. Jeff Sinclair
SIGNATURE

2. May 18, 1989
DATE

3. Jim Sinclair
NAME (Type or Print)

4. Project Supervisor
TITLE

MSP

GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Downtown Denver GENERATOR EPA ID: CO1150090040

LAB PACK CONTAINER NO: DDL-019 PAGE 19 OF 27

DOT DESCRIPTION: Butyl Alcohol UN/NA NO: NA1120
(Circle One)

CONTAINER SIZE: 5 Gallon CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Butanol (Butyl Alcohol)	1	2 Pints	Flammable Liquid	NA1120	U031
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1. Jim Sinclair
SIGNATURE

2. May 18, 1989
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3. Jim Sinclair
NAME (Type or Print)

4. Project Supervisor
TITLE

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MSP

GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Downtown Denver GENERATOR EPA ID: CO1150090040

AS PACK CONTAINER NO: DDL-020 PAGE 20 OF 27

DOT DESCRIPTION: Phenoxy Pesticide Liquid NOS UN/NA NO: UN2766
(Circle One)

CONTAINER SIZE: 5 Gallon CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Phenylarsene Oxide	1	1 Pint	Flammable Liquid	UN2766	D001
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1. [signature] 2. May 18, 1989
SIGNATURE DATE

3. Jim Sinclair 4. Project Supervisor
NAME (Type or Print) TITLE

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GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Englewood, Colorado GENERATOR EPA ID: CO1150090040

LAB PACK CONTAINER NO: ST-001 PAGE 21 OF 27

DOT DESCRIPTION: Corrosive Solid NOS UN/NA NO: UN1759
(Circle One)

CONTAINER SIZE: 20 Gallon CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Phenylacetic Acid	1	25 Kg.	Corrosive Material	UN1759	D002
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1. [signature] SIGNATURE 2. May 18, 1989 DATE

3. Jim Sinclair NAME (Type or Print) 4. Project Supervisor TITLE

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MSD007

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GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Englewood, Colorado GENERATOR EPA ID: CO1150090040

LAB PACK CONTAINER NO: ST- 002 PAGE 22 OF 27

DOT DESCRIPTION: Corrosive Solid NOS UN/NA NO: UN1759
(Circle One)

CONTAINER SIZE: 20 Gallon CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Phenylacetic Acid	1	25 Kg.	Corrosive Material	UN1759	D002
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1. Jim Sinclair
SIGNATURE

2. May 18, 1989
DATE

3. Jim Sinclair
NAME (Type or Print)

4. Project Supervisor
TITLE

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GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Englewood, Colorado GENERATOR EPA ID: CO1150090040

B PACK CONTAINER NO: ST- 003 PAGE 23 OF 27

DOT DESCRIPTION: Corrosive Solid NOS UN/NA NO: UN1759
(Circle One)

CONTAINER SIZE: 20 Gallon (30 Gal. or less) CONTAINER TYPE: Poly (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Phenylacetic Acid	1	25 Kg.	Corrosive Material	UN1759	D002
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1. [signature] SIGNATURE 2. May 18, 1989 DATE

3. Jim Sinclair NAME (Type or Print) 4. Project Supervisor TITLE

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MSD007

GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Englewood, Colorado GENERATOR EPA ID: CO1150090040

LAB PACK CONTAINER NO: ST- 004 PAGE 24 OF 27

DOT DESCRIPTION: Corrosive Solid NOS UN/NA NO: UN1759
(Circle One)

CONTAINER SIZE: 20 Gallon (30 Gal. or less) CONTAINER TYPE: Poly (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Phenylacetic Acid	1	25 Kg.	Corrosive Material	UN1759	D002
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1. [signature] SIGNATURE
2. May 18, 1989 DATE
3. Jim Sinclair NAME (Type or Print)
4. Project Supervisor TITLE

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MSD007

GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Englewood, Colorado GENERATOR EPA ID: CO1150090040

B PACK CONTAINER NO: ST- 005 PAGE 25 OF 27

DOT DESCRIPTION: Corrosive Solid NOS UN/NA NO: UN1759
(Circle One)

CONTAINER SIZE: 20 Gallon (30 Gal. or less) CONTAINER TYPE: Poly (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Phenylacetic Acid	1	25 Kg	Corrosive Material	UN1759	D002
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1. _____ SIGNATURE

2. May 18, 1989 DATE

3. Jim Sinclair NAME (Type or Print)

4. Project Supervisor TITLE

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MSD007

GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Englewood, Colorado GENERATOR EPA ID: CO1150090040

U PACK CONTAINER NO: ST-006 PAGE 26 OF 27

DOT DESCRIPTION: Corrosive Solid NOS UN/NA NO: UN1759
(Circle One)

CONTAINER SIZE: 20 Gallon CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Phenylacetic Acid	1	25 Kg.	Corrosive Material	UN1759	D002
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1. Jim Sinclair
SIGNATURE

2. May 18, 1989
DATE

3. Jim Sinclair
NAME (Type or Print)

4. Project Supervisor
TITLE

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MSD007

GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Englewood, Colorado GENERATOR EPA ID: CO1150090040

LAB PACK CONTAINER NO: ST-007 PAGE 27 OF 27

DOT DESCRIPTION: Corrosive Solid NOS UN/NA NO: UN1759
(Circle One)

CONTAINER SIZE: 20 Gallon CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Phenylacetic Acid	1	25 Kg.	Corrosive Material	UN1759	D002
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1. Jim Sinclair
SIGNATURE

2. May 18, 1989
DATE

3. Jim Sinclair
NAME (Type or Print)

4. Project Supervisor
TITLE

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JUN 01 1989

May 30, 1989

E.T. Technologies, Inc.
waste management & recovery

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

Dear Liz:

With regard to E.T.'s shipment which is scheduled to leave Denver on Wednesday, please make note of the following corrections which have been made concerning MSP Document Number 8902832:

Number 8902832

1. MSP Lab Pack Sheet - Drug Enforcement Administration: Pages 5 and 10, Lead Acetate and Sodium Fluoride respectively have been deleted from this shipment.

2. MSP Lab Pack Sheet - Drug Enforcement Administration: Page 8, Potassium Chromate/EPA Waste Code has been changed from D001 to D007.

Liz, if you have any questions or any other corrections need to be made please contact us. Thank you.

Respectfully,

Kathy Hilliard

Kathy Hilliard
Administrative Assistant

Enclosures

15200 E. GIRARD AVE. □ #4100 □ AURORA, CO 80014 □ 303 680-9414

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Cont.

MSD007

0 2 9 8

GENERATOR NAME: Drug Enforcement Administration DATE: May 18, 1989

GENERATOR LOCATION: Downtown Denver GENERATOR EPA ID: CO1150090040

FAD CONTAINER NO: DDL-008 PAGE 8 OF 27

DOT DESCRIPTION: Poisonous Solid NOS UN/NA NO: UN2811
(Circle One)

CONTAINER SIZE: 5 Gallon CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Potassium Chromate	1	½ lb.	Poisonous Solid	UN2811	D007
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						

I AM AN AUTHORIZED EMPLOYEE OF E.T. TECHNOLOGIES, INC.
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. _____ 2. May 18, 1989
SIGNATURE DATE

Jim Sinclair 4. Project Supervisor
NAME (Type or Print) TITLE

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Vol 18 Exb 263 Marc U.S. MANIFESTS
Cont.

MSD007

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

3:10 pm
4-13-89
RECYCLE / REUSE
MANIFEST No. 907150

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. C O 1 1 1 5 0 1 0 1 9 0 1 4 1 0 1 0 1 1 1 6 — 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
Drug Enforcement Administration
721 19th Street
Denver, CO 80202
4. Generator's Phone (303) 844-3951

5. Transporter 1 Company Name — 6. US EPA ID Number
Denver & Rio Grande Railroad — C O D 0 0 6 9 1 5 3 5 9

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 — 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.
a.	[illegible]	[illegible]			
b.	Pyridine, Flammable Liquid, UN1282	0 1 0 2	D F	0 0 0 0 0 1	G
c.					
d.					

GENERATOR

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 Rail 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. I also certify that the waste is not a hazardous waste as defined in 40 CFR 261.5.

Printed/Typed Name: [illegible] — Signature: [signature] — Month Day Year: 10 13 18 89

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Wayne Ray — Signature: WAYNE RAY — Month Day Year: 1 14 6189

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

Discrepancy Indication Space

116. Waste code D001-R was removed and U196-R was inserted as per instructions of Jim Sinclair on 4-13-89

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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Vol. 12 Exh. 263 Page US MANIFESTS
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MSD007

DATA SHEETS

Evidence Dep Doc

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

MCDS Document # 890802

APR 6 1989

SALES (504) 465-3310

MSP CODE: _____

Generator Name: Drug Enforcement Administration
Facility Address: 721 19th Street
City, State, Zip: Denver, CO 80202
Technical Contact: David Lytal
Title: Special Agent
Telephone NO.: 303 844-3951 EXT _____
Facility EPA ID #: CO1150090040

Bill To: E.T. Technologies, Inc.
Company Contact: Jim Sinclair
Container Size: 5 Gallon Lab Packs
EPA Waste No.: See Lab Pack Inventory Sheets
Generating Process: Drug Production
Common Name of Waste: Pyridine
Rate of Generation: VARIABLE per ANNUAL
Volume in Storage: _____ IN _____
Is Waste DOT Hazardous: [ ] YES [ ] NO
Proper DOT Shipping Name: See Lab Pack Inventory Sheet
Hazard Class: _____ ID No.: _____
Transportation Equipment: Van/Rail
Placarding: _____

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

See Attached Lab Pack Inventory Sheet	%
	%
	%
	%
	%
	%
	%

METALS (EP Toxicity Test, mg 1)

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

INORGANICS (mg 1 or ppm)

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

ORGANICS (mg 1 or ppm)

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

PHYSICAL DESCRIPTION

Physical State	[ ] Liquid	[ ] Semi-solid	[✓] Solid	
Phases Layering	[ ] Uni-Layer	[ ] 2 Layer	[ ] Multi-Layer	
Viscosity	[ ] High	[ ] Medium	[ ] Low	
Type of Solids	[ ] Organic	[ ] Inorganic	[ ] Mixed	

Total Solids (wt. %) _____ Suspended Solids (wt. %) _____
BTU lb 15,000 % Ash Content 50 % Water (by weight) 20
Flash Point (°F) 68 F Type _____
Specific Gravity 1.1
Boiling Point (°C) _____ Freezing Point (°C) _____
Vapor Pressure (mm Hg @ 24°C) _____
pH (Avg) _____ (Range) _____ to _____
Total Alkalinity Acidity (%) _____
Odor _____
Color _____

HAZARDOUS PROPERTIES

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

[ ] Other _____

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

_____

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

CERTIFICATION: I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine, that no deliberate or willful omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE 4/5/89 GENERATOR'S SIGNATURE: _____

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 Rec'd from MSP Vol 18 Exh 253 Page U.S. MANIFESTS Cont.

Released PI Hearing

MSD007

8 8 8

MSP LAB PACK INVENTORY

GENERATOR NAME: Drug Enforcement Administration DATE: April 5, 1989

GENERATOR LOCATION: Arapahoe County GENERATOR EPA ID: CO11500090040

LAB PACK CONTAINER NO: EB-001 PAGE 1 OF 2

DOT DESCRIPTION: Flammable Liquid UN/NA NO: UN1282
(Circle One)

CONTAINER SIZE: 5 Gallon CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Pyridine	1	.5 Gal.	Flammable Liquid	UN1282	U 196 ~~D001~~
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						

I AM AN AUTHORIZED EMPLOYEE OF E.T. Technologies, Inc.
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. _____ 2. April 5, 1989
SIGNATURE DATE

3. Jim Sinclair 4. Project Supervisor
NAME (Type or Print) TITLE

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

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Vol. 18 Exh. 243 Date 4/5/89
Cont.

Releasable
PI Hearing
U.S. MANIFESTS

MSD007

MSP LAB PACK INVENTORY

GENERATOR NAME: Drug Enforcement Administration DATE: April 5, 1989

GENERATOR LOCATION: Arapahoe County GENERATOR EPA ID: CO1150090040

LAB PACK CONTAINER NO: EB-002 PAGE 2 OF 2

DOT DESCRIPTION: Flammable Liquid UN/NA NO: UN1282
(Circle One)

CONTAINER SIZE: 5 Gallon CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Pyridine	1	.5 Gal.	Flammable Liquid	UN1282	U196 ~~D001~~
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						

I AM AN AUTHORIZED EMPLOYEE OF E.T. Technologies, Inc.
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. _____ 2. April 5, 1989
SIGNATURE DATE

3. Jim Sinclair 4. Project Supervisor
NAME (Type or Print) TITLE

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
Rec'd from MSP
Rel as PI Exh. 263 Hearing
Cont.

MSD007

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

RECYCLE / REUSE

MANIFEST No. 907801

use 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. C|O|1|1|5|0|0|9|0|1|4|0|0|1|1|1 — 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
Drug Enforcement Administration
721 19th Street
Denver, Colorado 80202

4. Generator's Phone (303) 844-3951

5. Transporter 1 Company Name
Denver & Rio Grande Railroad

6. US EPA ID Number C|O|D|0|1|6|9|1|1|5|3|5|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 L|A|D|9|8|1|0|5|7|7|0|6

(504) 631-3161

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol.	
a. Acetic Acid Glacial, Corrosive Solid, NOS, UN2789	001	DF	00005	P	D002
b. Hydriotic Acid, Corrosive, UN1823	001	DF	00005	G	D002
c. Red Phosphorous, Flammable Solid, UN1338 *	003	DF	00006	P	D001

GENERATOR

12. Additional Description for Materials Listed Above — RECYCLE / REUSE

ASP Approval Code: [illegible]
[illegible]

13. K-H 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: David Lytle — Signature: David Lytle — Month Day Year: 03 20 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Frank Hill — Signature: Frank Hill — Month Day Year: 03 21 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

19. Discrepancy Indication Space

FACILITY

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

Printed/Typed Name: Gail Leonard — Signature: [illegible] — Month Day Year: 03 20 89

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

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Feb 13 Exh 253 Pace US
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MSD007

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

RECYCLE / REUSE

MANIFEST No. 908177

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. C|O|1|5|0|0|0|0|0|0|1|1|3 — 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
Drug Enforcement Administration
721 19th Street
Denver, Colorado 80202

4. Generator's Phone (303) 844-3951

5. Transporter 1 Company Name: Denver & Rio Grande Railroad

6. US EPA ID Number: C|O|D|0|0|6|9|1|5|3|5|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: L|A|D|9|8|1|0|5|7|7|0|6

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
a. Lead Acetate, Poisonous Solid, NOS, UN2811	001	DF	00002	P
b. Phenyl 2 Propanone, Flammable Liquid, UN1993	002	DF	00005	G
c. Sulfuric Acid, Corrosive Liquid, UN1823	001	DF	00001	G
Acetic Anhydride, Corrosive Liquid, UN1715	001	DF	00001	G

15. Special Handling Instructions and Additional Information

IF UNABLE TO DELIVER, RETURN TO GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: David Lytel — Signature: David Lytel — Month 10 Day 12 Year 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: David Lytel — Signature: David Lytel — Month 10 Day 12 Year 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: Frank Hill — Signature: Frank Hill — Month 10 Day 12 Year 89

Discrepancy Indication Space

FACILITY

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

Printed/Typed Name: Gail Leonard — Signature: Gail Leonard — Month 10 Day 13 Year 89

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PI Hearing

MSD007

DATA SHEETS

MAR 16 1989

8901377

MCDS Document #

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

SALES (504) 465-3310

MSP CODE: _____

Generator Name: Drug Enforcement Administration
Facility Address: 721 19th Street
City State Zip: Denver, CO 80202
Technical Contact: Dave Lydel
Title: Special Agent
Telephone NO.: 303 844-3951 EXT _____
Facility EPA ID #: CO1150090040

Bill To: E.T. Technologies, Inc.
Company Contact: Jim Sinclair
Container Size: 5 Gallon Lab Packs
EPA Waste No.: See Inventory Sheets
Generating Process: Drug Production
Common Name of Waste: Laboratory Waste
Rate of Generation _____ _____ PER _____
(Quantity) (Unit) (Time Period)
Volume in Storage _____ IN _____
(Quantity) (Unit) (Container Size and Type)
Is Waste DOT Hazardous? [ ] YES [ ] NO
Proper DOT Shipping Name: See Lab Pack Inventory Sheets
Hazard Class _____ ID No. _____
Transportation Equipment: Van/Rail
Placarding _____

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

See Attached Lab Pack Inventory Sheets	%

METALS (EP Toxicity Test, mg 1)

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

INORGANICS (mg 1 or ppm)

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

ORGANICS (mg/1 or ppm)

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

PHYSICAL DESCRIPTION

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

Total Solids (wt. %) _____ Suspended Solids (wt. %) _____
BTU lb _____ % Ash Content _____ % Water (by weight) _____
Flash Point (°F) _____ Type _____
Specific Gravity _____
Boiling Point (°C) _____ Freezing Point (°C) _____
Vapor Pressure (mm Hg @ 24°C) _____
pH (Avg) _____ (Range) _____ to _____
Total Alkalinity Acidity (%) _____
Odor _____
Color _____

HAZARDOUS PROPERTIES

[ ] Water Reactive	[ ] Reactive	[ ] NONE	
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Explosive	
[ ] Radioactive	[ ] Pesticide Residuals	[ ] Polymerizable	
[ ] Corrosive	[ ] Toxic Vapor	[ ] 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 March 14, 1989 GENERATOR'S SIGNATURE: David E. Lydel

MSP Information Use Only

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Vol. 18 Exh. 253 Pages
Cont.

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MSD007

GENERATOR NAME: Drug Enforcement Administration DATE: March 14,1989

GENERATOR LOCATION: Denver GENERATOR EPA ID: C01150090040

B PACK CONTAINER NO: NM003 PAGE 3 OF 3

DOT DESCRIPTION: Flammable Solid UN/NA NO: UN1338
(Circle One)

CONTAINER SIZE: 5 Gallon CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Red Phosphorous	One	< 1 Lb.	Flammable Solid	UN1338	D001
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						

I AM AN AUTHORIZED EMPLOYEE OF E, T Technologies, Inc.
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Clellon Fearce
SIGNATURE

2. 3/14/89
DATE

3. Clellon Fearce
NAME (Type or Print)

4. Manager
TITLE

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

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MSD007

GENERATOR NAME: Drug Enforcement Administration DATE: March 14, 1989

GENERATOR LOCATION: Denver GENERATOR EPA ID: CO1150090040

B PACK CONTAINER NO: NM002 PAGE 2 OF 3

DOT DESCRIPTION: Corrosive UN/NA NO: UN1823
(Circle One)

CONTAINER SIZE: 5 Gallon CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Hydriodic Acid	One	2 Pints	Corrosive	UN1823	D002
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						

I AM AN AUTHORIZED EMPLOYEE OF E.T. Technologies, Inc.
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Clellan Pearce
SIGNATURE

2. 3/14/89
DATE

3. Clellan Pearce
NAME (Type or Print)

4. Manager
TITLE

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
Rec'd from MSP
Vol. 18 Exh. 253 Page 1 of 3
Cont.

Releasable
PI Hearing
U.S. MANIFESTS

MSD007

MSP LAB PACK INVENTORY

GENERATOR NAME: Drug Enforcement Administration DATE: March 14, 1989

GENERATOR LOCATION: Denver GENERATOR EPA ID: CO1150090040

LAB PACK CONTAINER NO: NM001 PAGE 1 OF 3

DOT DESCRIPTION: Corrosive Solids NOS UN/NA NO: UN2789
(Circle One)

CONTAINER SIZE: 5 Gallon (30 Gal. or less) CONTAINER TYPE: Poly (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Acetic Acid Glacial	One	5 Lbs.	Corrosive	UN2789	D002
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						

I AM AN AUTHORIZED EMPLOYEE OF E.T. Technologies, Inc.
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Clellan Pearce
SIGNATURE

2. 3/14/89
DATE

3. Clellan Pearce
NAME (Type or Print)

4. Manager
TITLE

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
Rec'd from MSP
Vol. 18 Exh. 253 Pages
Cont.

Releasable
PI Hearing
U.S. MANIFESTS

MSD007

DATA SHEETS MAR 22 1989 . Wheatridge, Colorado

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

SALES (504) 465-3310

MCDS Document # 8901553

MSP CODE: _____

Generator Name Drug Enforcement Administration
Facility Address 721 19th Street
City State Zip Denver, CO 80202
Technical Contact Dave Lydel
Title Special Agent
Telephone NO. 303 844-3951 EXT _____
Facility EPA ID # CO1150090040

Bill To E.T. Technologies, Inc.
Company Contact Jim Sinclair
Container Size 5 Gallon Lab Packs
EPA Waste No. See Lab Pack Inventory Sheets
Generating Process Drug Production
Common Name of Waste Laboratory Waste
Rate of Generation _____ _____ PER _____
Volume in Storage _____ IN _____
Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name See Lab Pack Inventory Sheet
Hazard Class _____ ID No. _____
Transportation Equipment Van/Rail
Placarding _____

CHEMICAL COMPOSITION (No Trade Name)

(Total must add up to 100%)

See Attached Lab Pack Inventory Sheets	%
	%
	%
	%
	%
	%
	%

METALS (EP Toxicity Test, mg 1)

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

INORGANICS (mg 1 or ppm)

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

ORGANICS (mg 1 or ppm)

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

PHYSICAL DESCRIPTION

Physical State	[ ] Liquid	[ ] Semi-solid	[ ] Solid	
Phases Layering	[ ] Uni-Layer	[ ] Bi-layer	[ ] Multi-layer	
Viscosity	[ ] High	[ ] Medium	[ ] Low	
Type of Solids	[ ] Organic	[ ] Inorganic	[ ] Mixed	

Total Solids (wt. %) _____ Suspended Solids (wt. %) _____
BTU/lb _____ % Ash Content _____ % Water (by weight) _____
Flash Point (°F) _____ Type _____
Specific Gravity _____
Boiling Point (°C) _____ Freezing Point (°C) _____
Vapor Pressure (mm Hg @ 24°C) _____
pH (Avg) _____ (Range) _____ to _____
Total Alkalinity Acidity (%) _____
Odor _____
Color _____

HAZARDOUS PROPERTIES

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

[ ] Other _____

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES: _____

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

CERTIFICATION: I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine, that no deliberate or willful omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE March 20, 1989 GENERATOR'S SIGNATURE: _____

AUTHORIZATION TO TRANSPORT

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Cont.
Releasable
PI Hearing
U.S. MANIFESTS
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0 8 8 1

MSP LAB PACK INVENTORY

GENERATOR NAME: Drug Enforcement Administration DATE: March 20, 1989

GENERATOR LOCATION: Denver, Colorado GENERATOR EPA ID: CO1150090040

LAB PACK CONTAINER NO: WR-001 PAGE 1 OF 5

DOT DESCRIPTION: Corrosive UN/NA NO: UN1715
(Circle One)

CONTAINER SIZE: 5 Gallon CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Acetic Anhydride	1	0.5 Gal	Corrosive Material	UN1715	D002
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						

I AM AN AUTHORIZED EMPLOYEE OF E.T. Technologies, Inc.
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [signature] SIGNATURE
2. March 20, 1989 DATE
3. Jim Sinclair NAME (Type or Print)
4. Project Supervisor TITLE

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Vol. 18 Exb. 253 March U.S. MANIFESTS
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PI Hearing

MSD007

0 2 8 2

GENERATOR NAME: Drug Enforcement Administration DATE: March 20, 1989

GENERATOR LOCATION: Denver, Colorado GENERATOR EPA ID: CO1150090040

LAB PACK CONTAINER NO: WR-002 PAGE 2 OF 5

DOT DESCRIPTION: Flammable Solid UN/NA NO: UN1338

CONTAINER SIZE: 5 Gallon (30 Gal. or less) CONTAINER TYPE: Poly (Fiber or Poly) (Circle One)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Red Phosphorous & Glass	2	4 Lbs.	Flammable Solid	UN1338	D001
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
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14						
15						
16						

I AM AN AUTHORIZED EMPLOYEE OF E.T. Technologies, Inc.
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [signature] SIGNATURE

2. March 20, 1989 DATE

3. Jim Sinclair NAME (Type or Print)

4. Project Supervisor TITLE

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MSD007

LAB PACK INVENTORY

GENERATOR NAME: Drug Enforcement Administration DATE: March 20, 1989

GENERATOR LOCATION: Denver, Colorado GENERATOR EPA ID: CO1150090040

LAB PACK CONTAINER NO: WR-003 PAGE 3 OF 5

DOT DESCRIPTION: Corrosive Liquid UN/NA NO: UN1823
(Circle One)

CONTAINER SIZE: 5 Gallon CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Sulfuric Acid	1	0.5 Gal.	Corrosive	UN1823	D002
02						
03						
04						
05						
06						
07						
08						
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16						

I AM AN AUTHORIZED EMPLOYEE OF E.T. Technologies, Inc.
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Jim Sinclair
SIGNATURE

2. March 20, 1989
DATE

3. Jim Sinclair
NAME (Type or Print)

4. Project Supervisor
TITLE

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Releasable
PI Hearing

MSD007

GENERATOR NAME: Drug Enforcement Administration DATE: March 20, 1989

GENERATOR LOCATION: Denver, Colorado GENERATOR EPA ID: CO1150090040

LAB PACK CONTAINER NO: WR-004 PAGE 4 OF 5

DOT DESCRIPTION: Flammable Liquid UN/NA NO: UN1993
(Circle One)

CONTAINER SIZE: 5 Gallon CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Broken Glassware & Phenyl 2 Propanone	1 1	1 Lbs. 1 Gal.	Flammable Liquid	UN1993	D001
02						
03						
04						
05						
06						
07						
08						
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I AM AN AUTHORIZED EMPLOYEE OF E.T. Technologies, Inc.
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [signature] SIGNATURE

2. March 20, 1989 DATE

3. Jim Sinclair NAME (Type or Print)

4. Project Supervisor TITLE

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Releasable PI Hearing

MSD007

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PI Hearing
MSD007

MATERIAL CHARACTERIZATION

GENERATOR NAME: Drug Enforcement Administration DATE: March 20, 1989

GENERATOR LOCATION: Denver, Colorado GENERATOR EPA ID: CO1150090040

LAB PACK CONTAINER NO: WR-005 PAGE 5 OF 5

DOT DESCRIPTION: Poisonous Solid NOS UN/NA NO: UN2811
(Circle One)

CONTAINER SIZE: 5 Gallon (30 Gal. or less) CONTAINER TYPE: Poly (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Lead Acetate	1	2 Lbs.	Poisonous	UN2811	U144
02						
03						
04						
05						
06						
07						
08						
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I AM AN AUTHORIZED EMPLOYEE OF E.T. Technologies, Inc.
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [signature] SIGNATURE

2. March 20, 1989 DATE

3. Jim Sinclair NAME (Type or Print)

4. Project Supervisor TITLE

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

3:10 p.m. 4/13/89

RECYCLE / REUSE

MANIFEST No. 907150

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. C O 1 1 1 5 0 1 0 1 9 0 1 0 1 4 1 0 1 0 1 1 1 6 — 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
Drug Enforcement Administration
721 19th Street
Denver, CO 80202

4. Generator's Phone (303) 844-3951

5. Transporter 1 Company Name: Denver & Rio Grande Railroad

6. US EPA ID Number: C O D 0 0 6 9 1 5 3 5 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: 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.
a. [illegible]	[illegible]			
b. Pyridine, Flammable Liquid, UN1282	0 1 0 1 2	D	F 0 0 1 0 1 0 1	G
c.				
d.				

GENERATOR

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 ~~Rail~~ 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 Fish — Signature: David Fish — Month Day Year: 04 13 89

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Wayne Ray — Signature: WAYNE RAY — Month Day Year: 04 13 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name — Signature — Month Day Year

Discrepancy Indication Space
116. Waste code D001-R was removed and U196-R was inserted as per instructions of Jim Sinclair on 4-13-89

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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Cont.

Released
PI Hearing

MSD007

DATA SHEETS

Evidence Bag

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

APR 6 1989

SALES (504) 465-3310

MCDS Document # 890802

MSP CODE:

Generator Name: Drug Enforcement Administration
Facility Address: 721 19th Street
City State Zip: Denver, CO 80202
Technical Contact: David Lytal
Title: Special Agent
Telephone NO.: 303 844-3951 EXT
Facility EPA ID #: CO1150090040

Bill To: E.T. Technologies, Inc.
Company Contact: Jim Sinclair
Container Size: 5 Gallon Lab Packs
EPA Waste No.: See Lab Pack Inventory Sheets
Generating Process: Drug Production
Common Name of Waste: Pyridine
Rate of Generation: VARIABLE (Quantity / Time) PER PRN (Time Interval)
Volume in Storage: (Quantity) IN (Time Interval Since Date)

Is Waste DOT Hazardous? | | YES | | NO
Proper DOT Shipping Name: See Lab Pack Inventory Sheet
Hazard Class: ID No.:
Transportation Equipment: Van/Rail
Placarding:

CHEMICAL COMPOSITION (No Trade Name)

(Total must add up to 100%)

See Attached Lab Pack Inventory Sheet	%
	%
	%
	%
	%
	%
	%

METALS (EP Toxicity Test, mg 1)

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

INORGANICS (mg 1 or ppm)

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

ORGANICS (mg-1 or ppm)

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

PHYSICAL DESCRIPTION

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

Total Solids (wt. %): Suspended Solids (wt. %):
BTU lb: 15,000 % Ash Content: 50 % Water (by weight): 20
Flash Point (°F): 68 F Type:
Specific Gravity: 1-1
Boiling Point (°C): Freezing Point (°C):
Vapor Pressure (mm Hg @ 24°C):
pH (Avg): (Range): to
Total Alkalinity Acidity (%):
Odor:
Color:

HAZARDOUS PROPERTIES

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

[ ] Other

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

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

CERTIFICATION: I hereby certify that the above and attached description is complete and accurate to the best of my knowledge and ability to determine that no deliberate or willful omission of composition or properties exists, and that all known or suspected hazards have been disclosed. I certify that the materials tested are representative of all the materials subject to the contract.

DATE 4/5/89 GENERATOR'S SIGNATURE:

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US v MSP Rec'd from MSP Vol 18 Exhibit 253 Page US MANIFESTS Cont.

Releasable Pl Hearing

MSD007

MSP LAB PACK INVENTORY

GENERATOR NAME: Drug Enforcement Administration DATE: April 5, 1989

GENERATOR LOCATION: Arapahoe County GENERATOR EPA ID: CO1150090040

LAB PACK CONTAINER NO: EB-001 PAGE 1 OF 2

DOT DESCRIPTION: Flammable Liquid UN/NA NO: UN1282
(Circle One)

CONTAINER SIZE: 5 Gallon CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Pyridine	1	.5 Gal.	Flammable Liquid	UN1282	U 196 ~~D001~~
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
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13						
14						
15						
16						

I AM AN AUTHORIZED EMPLOYEE OF E.T. Technologies, Inc.
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. _____ 2. April 5, 1989
SIGNATURE DATE

3. Jim Sinclair 4. Project Supervisor
NAME (Type or Print) TITLE

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Releasable
PI Hearing
MSD007

MSP LAB PACK INVENTORY

Evidence Bag

GENERATOR NAME: Drug Enforcement Administration DATE: April 5, 1989

GENERATOR LOCATION: Arapahoe County GENERATOR EPA ID: CO1150090040

LAB PACK CONTAINER NO: EB-002 PAGE 2 OF 2

DOT DESCRIPTION: Flammable Liquid UN/NA NO: UN1282
(Circle One)

CONTAINER SIZE: 5 Gallon (30 Gal. or less) CONTAINER TYPE: Poly (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Pyridine	1	.5 Gal.	Flammable Liquid	UN1282	U196 ~~D001~~
02						
03						
04						
05						
06						
07						
08						
09						
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14						
15						
16						

I AM AN AUTHORIZED EMPLOYEE OF E.T. Technologies, Inc.
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [signature] SIGNATURE

2. April 5, 1989 DATE

3. Jim Sinclair NAME (Type or Print)

4. Project Supervisor TITLE

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 Rec'd from MSP Vol 18 Exb 253 Page US MANIFESTS Releasable PI Hearing Cont.

MSD007

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

RECYCLE / REUSE

MANIFEST No. 908082

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

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. LA D 9 8 1 0 5 7 7 0 6 — Manifest Document No. 0 0 3 1 9 4 — 2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

GENERATOR

3. Generator's Name and Mailing Address
U. S. Main Post Office
100 South First St.
Minneapolis, MN 55401
4. Generator's Phone (612/349-4490

5. Transporter 1 Company Name: Aqua-Tech, Inc. — 6. US EPA ID Number: W I D 0 6 6 8 8 8 0 1 7

7. Transporter 2 Company Name: AQUA-TECH INC — 8. US EPA ID Number: W I D 0 6 6 8 8 8 0 1 7

9. Designated Facility Name and Site Address
MARINE SHALE PROCESSORS, INC
HIGHWAY 90 EAST
MORGAN CITY, LOUISIANA 70380 — 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.
a. "RQ" Waste Flammable Solid, NOS (D001) Flammable Solid UN1325	3	DM	195	P
b. "RQ" Waste Flammable Solid, NOS (D001) Flammable Solid UN1325	1	DM	150	P
c.				
d.				

[redacted]

15. Special Handling Instructions and Additional Information
a. ERG # 32
b. ERG # 32 HI # 3 PP D (K)
(IF UNABLE TO DELIVER) RETURN TO GENERATOR

16. GENERATOR'S CERTIFICATIONS 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. [illegible] 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

Printed/Typed Name: R. [redacted] — Signature: [redacted] — Month Day Year: 10 31 18 9

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: WAYNE ALOSE — Signature: [redacted] — Month Day Year: 10 31 18 9

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: DONEE VOLKMANN — Signature: [redacted] — Month Day Year: 10 31 18 9

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: Ellen Mills — Signature: Ellen Mills — Month Day Year: 10 4 18 9

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Cont.

Reclassable PI Hearing

MSD007

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

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

MCDS Document # _____

FEB 14 1989

MSP CODE: _____

C9C1002

WS# 15-995

Generator Name U. S. Main Post Office
Facility Address 100 S. First Street
_____
_____
City, State, Zip Minneapolis, MN 55401
Technical Contact Ray Strom
Title Supvr./Building Service
Telephone NO. (612) 349-4490 EXT: _____
Facility EPA ID # MN7180000112

Bill To: Aqua-Tech, Inc.
Company Contact: Donna Albert
Container Size: 55 gal.
EPA Waste No. D001
Generating Process Paint Consolidation
Common Name of Waste Paint Solid
Rate of Generation 5,000 (Quan) lbs. (Units) PER year (Time Interval)
Volume in Storage 55 (Quan) gal. (Units) IN 55 gal. 17H Dr. (Container Size and Type)
Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name "RQ" Waste Flamm. Solid, NOS
Hazard Class Flam. Sol ID No. UN1325 (DOT)
Transportation Equipment Truck
Placarding Flammable Solid

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Enamel Paint Consolidation	100 %
	%
	%
	%
	%
	%
	%

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	<0.18	Silver (Ag)	<0.025
Barium (Ba)	<0.30	Copper (Cu)	None
Cadmium (Cd)	<0.025	Nickel (Ni)	↓
Chromium (cr)	<0.050	Zinc (Zn)	↓
Lead (Pb)	3.9		
Mercury (Hg)	<0.016		
Selenium (Se)	<0.21		

INORGANICS (mg/l or ppm)

Total CN	None	Iodine	None
Free CN	<50ppm	Asbestos	↓
Free Sulfide	<75ppm		
Chloride	None		
Bisulfite	↓		
Sulfite			
Sulfate			
Phosphate			
Flourine			
Bromine			
Chlorine	↓		

ORGANICS (mg/l or ppm)

Endrin	None	Organohalide	None
Methoxychlor	↓	Mercaptans	↓
Toxaphene			
2,4-5			
2,4,5-T			
Phenol (s)			
PCBs			
Dioxin			
TOC	↓		

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. %) >99 Suspended Solids (wt. %) None
BTU/lb 7000-9000 % Ash Content 5-10 % Water (by weight) None
Flash Point (°F) <70°F Type Closed Cup
Specific Gravity 1.0 g/ml
Boiling Point, (°C) Not Applic Freezing Point, (°C) Not Applicable
Vapor Pressure (mm Hg @ 24°C) Not Applicable
pH (Avg) 5.5 (Range) 5 to 6
Total Alkalinity/Acidity (%) Not Applicable
Odor Mild
Color Green

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: 3-K-32

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 2-6-89 GENERATOR'S SIGNATURE: _____

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Vol. 18 Exh. 263 Hearing
Cont.

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TECH / Groce Labs

Phone (414) 284-5746
Wisconsin 800-451-5116
Outside WI 800-338-8504
FAX (414) 284-0243

140 South Park St.
Port Washington
Wisconsin 53074

WASTE STREAM PROFILE SHEET

WS# 15-995
TH# 9490
DATE 1/16/89
SALES REP. G.Willia

I. GENERATOR INFORMATION

Name of Company U. S. Main Post Office
Facility Address 100 S. First Street
Minneapolis, MN 55401

Technical/General Contact Ray Strom
Title Supvr./Building Service

US EPA ID# MN7180000112
Name of Company
Billing Address

Phone (612) 349-4490
Emergency Contact
24-Hour Emergency Phone Number ( )

II. WASTE STREAM GENERAL INFORMATION

Waste Name Paint Solid

Process Producing Waste Paint Consolidation

Anticipated Volume 5,000 lbs. Frequency year
Current Inventory 1 x 55 gal. dr.
Container Type ☒ Drums: 17H Weight 500# Size 55 gal.
☐ Cube ☐ Bulk Solids ☐ Bulk Liquids ☐

III. CHEMICAL COMPOSITION (Totals must add up to 100%)

Constituents	
Enamel Paint Consolidation	100 %
	%
	%
	%
	%
	%
	%
	%
	%

IV. PHYSICAL DESCRIPTION (Qualitative Screen)

Physical State	☐ Liquid	☒ Solid	☐ Semi-Solid
	☐ Sludge	☐ Gas	☐
Viscosity	☐ Low	☐ Medium	☒ High
Liquid Layering	☒ None	☐ Bilayered	☐ Multilayere

Color Green
% Solids >99 % Liquids <1
pH 5-6 Specific Gravity 1.0 g/ml
Flash Point° F. <70 % Water None
BTU/lb 7,000-9,000 % Halogens None

Ignitability	☒ Yes	☐ No
Oxidizer	☐ Yes	☒ No
Pumpable	☐ Yes	☒ No
Acid Reactivity	☐ Yes	☒ N
Water Reactivity	☐ Yes	☒ N

V. METALS (mg/l or ppm)

	Total	EP Tox		Total	EP Tox
Arsenic (As)	None	<0.18	Copper (Cu)	None	None
Barium (Ba)	None	<0.30	Nickel (Ni)		
Cadmium (Cd)	0.89	<0.025	Zinc (Zn)		
Chromium (Cr)	2800	<0.050	Thallium (Tl)		
Lead (Pb)	11,000	3.9	Chromium Hex		
Mercury (Hg)	4.82	<0.016	Other		
Selenium (Se)	None	<0.21			
Silver (Ag)	None	<0.025			

VI. NON-METALS (ppm or %)

Free Sulfide	<75ppm
Free Cyanide	<50ppm
Total Sulfide	None
Total Cyanide	
PCB	

VII. SHIPPING INFORMATION (From 49-CFR)

Proper DOT Shipping Name "RQ" Waste Flammable Solid, NOS (D001)
DOT Hazard Class Flammable Solid UN/NA Number UN1325 Reportable Quantity 100/45.4

VIII. HAZARDOUS CHARACTERISTICS (From 40-CFR)

US EPA Hazardous Code(s) D001

Is the Waste ☐ Pyrophoric ☐ Dioxin Bearing ☐ Water Reactive ☐ Radioactive
☐ Explosive ☐ Pesticides/Herbicides ☐ Biological ☐ Shock Sensitive

IX. Material Safety Data Sheet (MSDS) Available

☐ See attached

Waste profile completed by (check one) A. ( ) generator; B. ( ) Aqua-Tech; or C. ( ) independent contractor working on behalf of the generator.

I hereby certify that I have personally examined and am familiar with the information submitted in this and all accompanying documents. Based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete, and that all known or suspected hazards have been disclosed. If the boxes, above, for generator or independent contractor are checked, I further certify that the waste characterization upon which Aqua-Tech relies is accurate and complete. I realize that my employer and I may be held liable under federal law, and the laws of many states, for the information provided in this form and any accompanying materials.

2-6-89 — Date
Signature OFFICE COPY
Supervisor — Title

AQUA-TECH, INCORPORATED
140 South Park Street, Port Washington, Wisconsin 53074
Phone (414) 284-5746 or (414) 375-0407 (Metro Milw.)

February 13, 1989

Mr. Michael Jaubert
Marine Shale Processors, Inc.
110 James Drive, Suite 120
St. Rose, LA 70087

Dear Mr. Jaubert:

Enclosed please find a Materials Characterization Sheet for a new waste stream for which we seek approval. Please quote the price as soon as possible.

WS# 15-995 Paint Solid U.S. Main Post Office

Thank you for your cooperation. If you should have any questions, please do not hesitate to contact me.

Sincerely,

AQUA-TECH, INC.

Donna Albert
Order Processing Supervisor

DA/bjo

Enclosures

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MSD007

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

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

MCDS Document # 030509

OCT 28 1988

MSP CODE: _____

WS# 15-1004

Generator Name U.S. Main Post Office
Facility Address 100 South First Street
City, State, Zip Minneapolis, MN 55401
Technical Contact Ray Strom
Title Supervisor, Building Serv.
Telephone NO. (612) 349-4490 EXT: _____
Facility EPA ID # MN7180000112

Bill To: Aqua-Tech, Inc.
Company Contact: Donna Albert
Container Size: 5 Gal. Dr.
EPA Waste No. D001
Generating Process Unwanted Chemical Inventory
Common Name of Waste Paint
Rate of Generation 3 (Quan) Drums (Units) PER 4 Times (Time Interval)
Volume in Storage 3 (Quan) Drums (Units) IN 5 Gal. Dr. (Container Size and Type)
Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name "RQ" Waste Flammable Solid, NOS (D001)
Hazard Class Fl.Solid ID No. UN1325
Transportation Equipment _____
Placarding Flammable Solid

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Enamel Paint	100 %
	%
Contains:	%
Xylene, Naphtha & Pigments	%
	%
(Xylene is a part of the paint)	%
	%

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	None	Silver (Ag)	None
Barium (Ba)		Copper (Cu)	
Cadmium (Cd)	<0.025	Nickel (Ni)	
Chromium (cr)	<0.05	Zinc (Zn)	
Lead (Pb)	None		
Mercury (Hg)			
Selenium (Se)			

INORGANICS (mg/l or ppm)

Total CN	None	Iodine	None
Free CN	<50ppm	Asbestos	
Free Sulfide	<75ppm		
Chloride	None		
Bisulfite			
Sulfite			
Sulfate			
Phosphate			
Flourine			
Bromine			
Chlorine			

ORGANICS (mg/l or ppm)

Endrin	None	Organohalide	None
Methoxychlor		Mercaptans	
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	[X] High	[ ] Medium	[ ] Low
Type of Solids	[X] Organic	[ ] Inorganic	[ ] Mixed

Total Solids (wt. %) 100 Suspended Solids (wt. %) None
BTU/lb 8000-10000 % Ash Content <20 % Water (by weight) None
Flash Point (°F) <70 Type Closed Cup
Specific Gravity 1.4 g/ml
Boiling Point, (°C) Not Applicable Freezing Point, (°C) Not Applicable
Vapor Pressure (mm Hg @ 24°C) Not Applicable
pH (Avg) _____ (Range) 5 to 6
Total Alkalinity/Acidity (%) Not Applicable
Odor Mild
Color Yellow/White

HAZARDOUS PROPERTIES

[ ] 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: 3-K-32

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 1-25-88 GENERATOR'S SIGNATURE: _____

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AQUA TECH / Groce Labs

WASTE STREAM PROFILE SHEET

Phone (414) 284-5746
Wisconsin 800-451-5116
Outside WI 800-338-8504
FAX (414) 284-0243

140 South Park St
Port Washington
Wisconsin 53074

LAB PACK PROJECT
WS# 15-1004
TH# 9496
DATE 10-12-8
SALES REP. R. Scha

I. GENERATOR INFORMATION

Name of Company: U.S. Main Post Office
Facility Address: 100 South First Street
Minneapolis, MN 55401

Technical/General Contact: Ray Strom
Title: Supervisor, Building Serv.

US EPA ID# MN7180000112
Name of Company
Billing Address

Phone (612) 349-4490
Emergency Contact
24-Hour Emergency Phone Number ( )

II. WASTE STREAM GENERAL INFORMATION

Waste Name: Paint

Process Producing Waste: Unwanted Chemical Inventory

Anticipated Volume: 5,000 lbs/yr Frequency: 4 Times
Current Inventory: 3 Drums
Container Type: ☒ Drums: Weight 30# Size 5 Gall
☐ Cube ☐ Bulk Solids ☐ Bulk Liquids ☐

III. CHEMICAL COMPOSITION (Totals must add up to 100%)

Constituents

Enamel Paint	100 %
Contains:	%
Xylene, Naphtha & Pigments	%
(Xylene is a part of the paint)	%

IV. PHYSICAL DESCRIPTION (Qualitative Screen)

Physical State: ☐ Liquid ☒ Solid ☐ Semi Sol
☐ Sludge ☐ Gas ☐
Viscosity: ☐ Low ☐ Medium ☒ High
Liquid Layering: ☒ None ☐ Bilayered ☐ Multilaye
Color: Yellow/White
% Solids: 100 % Liquids: 0
pH: 5-6 Specific Gravity: 1.4 g/ml
Flash Point° F.: <70 % Water: None
BTU/lb: 8,000-10,000 % Halogens: None
Ignitability: ☒ Yes ☐ No
Oxidizer: ☐ Yes ☒ No Acid Reactivity: ☐ Yes ☒
Pumpable: ☐ Yes ☒ No Water Reactivity: ☐ Yes ☒

V. METALS (mg/l or ppm)

	Total	EP Tox		Total	EP Tox
Arsenic (As)		None	Copper (Cu)		None
Barium (Ba)			Nickel (Ni)		
Cadmium (Cd)		<0.025	Zinc (Zn)		
Chromium (Cr)		<0.05	Thallium (Tl)		
Lead (Pb)		None	Chromium Hex		
Mercury (Hg)			Other		
Selenium (Se)					
Silver (Ag)					

VI. NON-METALS (ppm or %)

Free Sulfide: <75 ppm
Free Cyanide: <50 ppm
Total Sulfide: None
Total Cyanide:
PCB:

VII. SHIPPING INFORMATION (From 49-CFR)

Proper DOT Shipping Name: "RQ" Waste Flammable Solid, NOS (D001)
DOT Hazard Class: Flammable Solid UN/NA Number: UN1325 Reportable Quantity: 100 lbs.

VIII. HAZARDOUS CHARACTERISTICS (From 40-CFR)

US EPA Hazardous Code(s): D001

Is the Waste ☐ Pyrophoric ☐ Dioxin Bearing ☐ Water Reactive ☐ Radioactive
☐ Explosive ☐ Pesticides/Herbicides ☐ Biological ☐ Shock Sensit

IX. Material Safety Data Sheet (MSDS) Available

☐ See attached

Waste profile completed by (check one) A. ( ) generator; B. ( ) Aqua-Tech, or C. ( ) independent contractor working on behalf of the generato

I hereby certify that I have personally examined and am familiar with the information submitted in this and all accompanying documents. Based on my inquiry those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete, and that all kno or suspected hazards have been disclosed. If the boxes, above, for generator or independent contractor are checked, I further certify that the waste characterizat upon which Aqua-Tech relies is accurate and complete. I realize that my employer and I may be held liable under federal law, and the laws of many states, the information provided in this form and any accompanying materials.

10-25-88 [signature] Supv Bldg Serv

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 94307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST Nº 904785

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.: AIZ141819101019101/16161525189
2. Page 1 of 3 — Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address: US Dept of ENERGY, 615 S. 43RD AVE
4. Generator's Phone (602) 352-2504 PHOENIX AZ 85009
5. Transporter 1 Company Name: DISPOSAL CONTROL SERVICE
6. US EPA ID Number: AIZ101918116175141312
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
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.	Waste No.
a. WASTE Flammable Solid N.O.S UN 1325 (D001)	12	DM	1141510	G	D001 R
b.					R
c.					R
d.					R

GENERATOR

12. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE: DCSP/USOPT/8902605 8 DRUMS IN OVERPACK

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

IF UNABLE TO DELIVER, RETURN TO GENERATOR: WEAR PERSONAL protective Equipment

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
Shirley J. Miller	Shirley J Miller	06 02 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
Steve F. Gonzales	Steve F. Gonzales	06 06 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

Discrepancy Indication Space

FACILITY

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

Printed/Typed Name	Signature	Month Day Year
Gail Leonard	Gail Leonard	06 06 89

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MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

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

MCDS Document # 8902603

MAY 12 1989

MSP CODE: _____

Generator Name US Dept of Energy - Phoenix District
Facility Address 615 S. 43rd Ave
City, State, Zip Phoenix AZ 85043
Technical Contact Shirley Miller
Title Property Mgmt Specialist
Telephone NO. (602) 353-2732 EXT: _____
Facility EPA ID # AZ4890090018

Bill To: Disposal Control Services
Company Contact: Cynthia Chaves
Container Size: 55 gallon metal drums
EPA Waste No. D001
Generating Process Maintenance activities (shop)
Common Name of Waste Polyurethane Varnish
Rate of Generation 23 (Quan) drums (Units) PER one time (Time Interval)
Volume in Storage 23 (Quan) drums (Units) IN 55 gal drums (Container Size and Type)
Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name Waste Flammable Solid, N.O.S.
Hazard Class Flam. Solid ID No. UN 1325
Transportation Equipment Semi Truck
Placarding Flammable Solid

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Polyurethane Varnish Solid	100 %
Contains: Mineral Spirits - 51%	____ %
Polyurethane Resin - 49%	____ %
	____ %
	____ %
	____ %
	____ %
	____ %

METALS (EP Toxicity Test, mg/l)

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

INORGANICS (mg/l or ppm)

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

ORGANICS (mg/l or ppm)

Endrin	C	Organohalide	C
Methoxychlor	C	Mercaptans	C
Toxaphene	C		
2, 4-5	C		
2,4,5-T	C		
Phenol(ics)	C		
PCBs	C		
Dioxin	C		
?	C		

PHYSICAL DESCRIPTION

Physical State	[ ] Liquid	[X] 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 12,000 % Ash Content 30 % Water (by weight) _____
Flash Point (°F) 112° Type PMCC
Specific Gravity 0.912 - 0.925
Boiling Point, (°C) _____ Freezing Point, (°C) _____
Vapor Pressure (mm Hg @ 24°C) _____
pH (Avg) 7-8 (Range) 7 to 8
Total Alkalinity/Acidity (%) _____
Odor Organic
Color Amber

HAZARDOUS PROPERTIES

[ ] Water Reactive	[ ] Reactive	[ ] NONE
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Explosive
[ ] Radioactive	[ ] Pesticide Residuals	[ ] Polymriable
[ ] Corrotive	[ ] Toxic Vapor	[X] Ignitable
[ ] Biological	[ ] Etiological	[ ] Pathogen
[ ] Other _____		

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:
User Personal Protective Equipment

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 5/2/89 GENERATOR'S SIGNATURE: Shirley Miller

MSP FORM 1040 (REV. JUNE 87)

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

RECYCLE / REUSE

MANIFEST Nº 911772

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. AZ R 000 062 161 — Manifest Document No. 910819 — 2. Page 1 of 1 — Information in the shaded areas is not required by Federal law

3. Generator's Name and Mailing Address: DRUG ENFORCEMENT ADMINISTRATION, #1 NORTH FIRST STREET, PHOENIX, ARIZONA 85004

4. Generator's Phone: 602 261 4866

5. Transporter 1 Company Name: DISPOSAL CONTROL SERVICE INC — 6. US EPA ID Number: AZD 981 167 543

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 — 504 631 8161

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 (D001)	006	DF	00003	Y	D001
b. RQ WASTE CORROSIVE SOLID, N.O.S. CORROSIVE SOLID UN 1759 (D002)	002	DF	00003	Y	D002
c. RQ WASTE FLAMMABLE SOLID, N.O.S. FLAMMABLE SOLID UN 1325 (D001)	001	DF	00005	Y	D001
d. RQ WASTE CORROSIVE LIQUID, N.O.S. CORROSIVE LIQUID UN 1760 (D002)	001	DF	00002	Y	D002

[redacted] — K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information: DRUMS STORED AT RANCHERO FROM 7-13-89 TO 9-8-89 MANIFEST # 07139

IF UNABLE TO DELIVER, RETURN TO GENERATOR: WEAR Proper Protective clothing

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: CHRIS R. JACOBSEN — Signature: ON BEHALF OF DEA/DEPT OF JUSTICE — Month Day Year: 09 07 89

17. Transporter 1 Acknowledgement of Receipt of Materials — Printed/Typed Name: DARRELL W. HACKELFORD — Signature: — Month Day Year: 09 08 89

TRANSPORTER — 18. Acknowledgement of Receipt of Materials — Printed/Typed Name: JAMES CAMBRON — Signature — Month Day Year: 09 09 89

19. Discrepancy Indication Space

FACILITY — 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19 — Printed/Typed Name: GAIL LEONARD — Signature — Month Day Year: 09 13 89

EPA Form [illegible] WHITE - TEO GREEN - [illegible]

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JUL 26 1989

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

P.O. BOX 1698 • KENNER, LA 70063

SALES (504) 465-3310

MCDS Document # 89114160

MSP CODE: _____

Generator Name DRUG ENFORCEMENT ADMINISTRATION
Facility Address #1 NORTH FIRST STREET
City, State, Zip PHOENIX AZ. 85004
Technical Contact _____
Title _____
Telephone NO. ( ) _____ EXT: _____
Facility EPA ID # AZ.P000006216

Bill To: DISPOSAL CONTROL SERVICE INC.
Address: 988 WEST ILLINI STREET
City, State, Zip: PHOENIX AZ 85041
Telephone #: (602) 269-0999
Company Contact: CYNTHIA CLOWES
Container Size: SEE ATTACHED INVENTORY SHEETS
EPA Waste No. SEE ATTACHED INVENTORY SHEETS
Generating Process ER-CLANDESTINE DRUG LAB
Common Name of Waste LAB PACKS
Rate of Generation LAB PACKS PER ONE TIME
(Quant. / Lots / Time)
Volume in Storage SEE ATTACHED INVENTORY SHEETS
(Quant. / Lots / Container Size and Type)

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

LAB PACKS (SEE ATTACHED INVENTORY SHEET)	%
	%
	%
	%
	%
	%
	%

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 1 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/1 or ppm)

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

Is Waste DOT Hazardous? | | YES | X | NO
Proper DOT Shipping Name SEE ATTACHED LAB PACK INVENTORY SHEETS
Hazard Class _____ ID No. _____
Transportation Equipment _____
Placarding _____

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. %) _____ Suspended Solids (wt. %) _____
BTU/lb _____ % Ash Content _____ Water (by weight) _____
Flash Point (°F) _____ Type _____
Specific Gravity _____
Boiling Point, (°C) _____ Freezing Point, (°C) _____
Vapor Pressure (mm Hg @ 25°C) _____
pH (Avg) _____ (Range) _____ to _____
Total Alkalinity/Acidity (%) _____
Odor _____
Color _____

SEE ATTACHED LAB PACK INVENTORY SHEETS FOR PHYSICAL DESCRIPTION

HAZARDOUS PROPERTIES

			NONE
	Water Reactive		Reactive		Explosive
	Shock Sensitive		Pyrophoric		Polymerizable
	Radioactive		Explosive (Radiation)		Ignitable
X	Corrosive		Toxic Vapors		Pathogen
	Biological		Etiological		
	Other _____				

SEE ATTACHED LAB PACK INVENTORY SHEETS FOR HAZARDOUS PROPERTIES

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT

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 _____ GENERATOR'S SIGNATURE: _____

MSP FORM 1049 (REV. FEB 88)

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DISPOSAL CONTROL SERVICE, INC.

888 W. ILUNI STREET, PHOENIX, ARIZONA 85041
(602) 268-0999 WATTS (800) 433-4981 (AZ Only)

Date: 7-21-89

I am an authorized employee of Disposal Control Service, Inc., the company preparing the Lab Packs for DRUG ENFORCEMENT ADMINISTRATION, I hereby certify that the Lab Packs represented by this Material Characterization Data Sheet and Lab Pack Packing Lists are prepared and shipped in full compliance with the Marine Shale Processors, Inc. Lab Pack Guidelines.

Respectfully,

Darrell W. Mier

Disposal Control Service, Inc.

Re: LAB PACKS - DRUG ENFORCEMENT ADMINISTRATION

MSD007

0881

DRUM # 1	MANIFEST # 07139	PROFILE # DEA-Hisley
DOT PROPER SHIPPING NAME: WASTE, Corrosive, liquid, NOS	HAZARD CLASS: Corrosive	UN/NA # 1759
EPA WASTE CODE: D002	NAME OF PACKAGER: SLANKY	CONTAINER TYPE: 55 gal metal

CONTAINER INVENTORY

	WASTE IDENTIFICATION		CONTAINERS			OTHER INFORMATION
	CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE	
1	CRUSHED GLASS	D002	10	LAB	GLASS	THIS IS LAB EQUIPMENT GLASS FROM A CHEMOTHERAPY CONTAMINATED WITH CORROSIVE LIQUID.
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DRUM # 2 | MANIFEST # 07139 | PROFILE # DEA-Higley

DOT PROPER SHIPPING NAME: Waste, Corrosive Liquid, NOS | HAZARD CLASS: Corrosive | UN/NA # 1760

EPA WASTE CODE: D002 | NAME OF PACKAGER: Higley | CONTAINER TYPE: 30 gal Poly

CONTAINER INVENTORY

	WASTE IDENTIFICATION		CONTAINERS			OTHER INFORMATION
	CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE	
1	HYDROCHLORIC ACID	D002	~~4~~ 3	2.5L	GLASS	Chem Lab material
2	SULFURIC ACID	D002	4	2.5L	GLASS	VIRGIN material
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4						
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DRUM # 3 | MANIFEST # 0739 | PROFILE # DEA Hicky

DOT PROPER SHIPPING NAME: ~~WP~~ Flammable Liquids, n.o.s. | HAZARD CLASS: Flammable | UN/NA # 1993

EPA WASTE CODE: D001 | NAME OF PACKAGER: Hicky | CONTAINER TYPE: 30 gal Poly

CONTAINER INVENTORY

	WASTE IDENTIFICATION		CONTAINERS			OTHER INFORMATION
	CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE	
1	Ethyl Ether	D001	3	1 QT	metal	Virgin material
2	Acetone	D001	2	1 gal	metal	from a drug
3	Methyl Amine	D001	4	3 Kg	glass	lab.
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DRUM # 4 | MANIFEST # 07139 | PROFILE # PCA - Hadley

DOT PROPER SHIPPING NAME: WBE, Corrosive solid, NOS | HAZARD CLASS: Corrosive | UN/NA # 1759

EPA WASTE CODE: D002 | NAME OF PACKAGER: SPAW | CONTAINER TYPE: Sgle Poly

CONTAINER INVENTORY

	WASTE IDENTIFICATION		CONTAINERS			OTHER INFORMATION
	CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE	
1	Sodium Hydroxide		2	500gl	Plastic	Virgin material
2	Sodium Acetate		2	500gl	Glass	Not a drug
3	Sodium Acetate		1	500gl	Plastic	Lab.
4	Potassium Hydroxide		1	500gl	Plastic	
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DRUM # 5 | MANIFEST # 07139 | PROFILE # DEA-Hickey

DOT PROPER SHIPPING NAME: Waste Corrosive Liquid, NOS | HAZARD CLASS: Corrosive | ID NA # 1760

EPA WASTE CODE: D002 | NAME OF PACKAGER: SAFETY | CONTAINER TYPE: 5gal Poly

CONTAINER INVENTORY

	WASTE IDENTIFICATION		CONTAINERS			OTHER INFORMATION
	CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE	
1	Ammonium Hydroxide	D002	1	500mL	GLASS	VIRGIN MATERIAL
2						FROM A LAB
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DRUM # 6 | MANIFEST # 07139 | PROFILE # DeA-Hickey

DOT PROPER SHIPPING NAME: Waste, Flammable liq, n.o.s. | HAZARD CLASS: Flammable | UN/NA # 1325

EPA WASTE CODE: D001 | NAME OF PACKAGER: Gaky | CONTAINER TYPE: 55gl Poly

CONTAINER INVENTORY

	WASTE IDENTIFICATION		CONTAINERS			OTHER INFORMATION
	CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE	
1	Rad Absorber	D001	4	55gl	METAL	VIRGIN MATERIAL
2						FROM A DRUG
3						LAB.
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DRUM # 1 | MANIFEST # 07139 | PROFILE # DeA - Higley

DOT PROPER SHIPPING NAME: WASTE, Corrosive, Solid, NOS | HAZARD CLASS: Corrosive | UN/NA # 1759

EPA WASTE CODE: D002 | NAME OF PACKAGER: SPARKY | CONTAINER TYPE: 30 g Poly

CONTAINER INVENTORY

#	WASTE IDENTIFICATION		CONTAINERS			OTHER INFORMATION
	CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE	
1	CRUSHED GLASS	D002	10	VARIED	GLASS	THIS IS LAB
2						EQUIPMENT FROM
3						A CLANDESTINE
4						METH LAB CONTAMINATED
5						WITH CORROSIVE
6						LIQUID.
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DRUM # 2 | MANIFEST # 07139 | PROFILE # DeA - Higley

DOT PROPER SHIPPING NAME: Waste, Corrosive Liquid, N.O.S. | HAZARD CLASS: Corrosive | UN/NA # 1760

EPA WASTE CODE: D002 | NAME OF PACKAGER: STANLEY | CONTAINER TYPE: 5g Poly

CONTAINER INVENTORY

#	WASTE IDENTIFICATION		CONTAINERS			OTHER INFORMATION
	CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE	
1	Hydrochloric Acid	D002	1	2.5L	Glass	Drug Lab
2						Virgin material
3						packed in Vermiculite
4						
5						
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DRUM # 2A | MANIFEST # 07139 | PROFILE # DEA - Higley

DOT PROPER SHIPPING NAME: Waste, Corrosive liquid, N.O.S. | HAZARD CLASS: Corrosive | UN/NA # 1760

EPA WASTE CODE: D002 | NAME OF PACKAGER: Staley | CONTAINER TYPE: 5g Poly

CONTAINER INVENTORY

#	WASTE IDENTIFICATION		CONTAINERS			OTHER INFORMATION
	CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE	
1	Hydrochloric Acid	D002	1	2.5L	Glass	Drug Lab
2						Virgin material
3						packed in vermiculite
4						
5						
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DRUM # 2B | MANIFEST # 07139 | PROFILE # DEA - Higley

DOT PROPER SHIPPING NAME: WASTE, Corrosive liquid, N.O.S. | HAZARD CLASS: Corrosive | UN/NA # 1760

WASTE CODE: D002 | NAME OF PACKAGER: STACY | CONTAINER TYPE: 5g Poly

CONTAINER INVENTORY

#	WASTE IDENTIFICATION		CONTAINERS			OTHER INFORMATION
	CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE	
1	Hydrochloric Acid	D002	1	2.5L	GLASS	Drug Lab
2						Virgin Material
3						Packed in Vermiculite
4						
5						
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DRUM # 2C | MANIFEST # 07139 | PROFILE # DeA - Higley

DOT PROPER SHIPPING NAME: Waste, Corrosive liquid, N.O.S. | HAZARD CLASS: Corrosive | UN/NA # 1760

WASTE CODE: D002 | NAME OF PACKAGER: STACY | CONTAINER TYPE: 5g Poly

CONTAINER INVENTORY

#	WASTE IDENTIFICATION		CONTAINERS			OTHER INFORMATION
	CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE	
1	Hydrochloric Acid	D002	1	2.5L	GLASS	Drug Lab
2						Virgin material
3						packed in Vermiculite
4						
5						
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DRUM # 20 | MANIFEST # 07139 | PROFILE # DEA-Hagley

DOT PROPER SHIPPING NAME: WASTE, Corrosive Liquid, n.o.s. | HAZARD CLASS: Corrosive | UN/NA # 1760

EPA WASTE CODE: D002 | NAME OF PACKAGER: SHARKY | CONTAINER TYPE: 55 Poly

CONTAINER INVENTORY

#	WASTE IDENTIFICATION		CONTAINERS			OTHER INFORMATION
	CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE	
1	SULFURIC ACID	D002	2	2.5L	GLASS	Orig Lab
2						Waste Material
3						Packed in Vermiculite
4						
5						
6						
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DRUM # 2E | MANIFEST # 07139 | PROFILE # DeA-Hayley

DOT PROPER SHIPPING NAME: WASTE, Corrosive liquid, n.o.s. | HAZARD CLASS: Corrosive | UN/NA # 1760

EPA WASTE CODE: D002 | NAME OF PACKAGER: SAFETY | CONTAINER TYPE: 5g Poly

CONTAINER INVENTORY

#	WASTE IDENTIFICATION		CONTAINERS			OTHER INFORMATION
	CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE	
1	Sulfuric Acid	D002	2	2.5L	GLAS	Lab Waste Material Packed in Vermiculite.
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DRUM # 3 | MANIFEST # 07139 | PROFILE # DEA Hisley

DOT PROPER SHIPPING NAME: Waste, Flammable Liquid, N.O.S. | HAZARD CLASS: Flammable | UN/NA # 1993

EPA WASTE CODE: U117 | NAME OF PACKAGER: SMITH | CONTAINER TYPE: 5 gal Poly

CONTAINER INVENTORY

#	WASTE IDENTIFICATION		CONTAINERS			OTHER INFORMATION
	CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE	
1	ETHYL ETHER	U117	1	1QT	METAL	Drug Lab
2						VIRGIN MATERIAL
3						PACKED W VERMICULITE
4						
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DRUM # 3A | MANIFEST # 07139 | PROFILE # DEA Hasley

DOT PROPER SHIPPING NAME: WASTE, FLAMMABLE LIQUID, N.O.S. | HAZARD CLASS: Flammable | UN/NA # 1993

EPA WASTE CODE: V117 | NAME OF PACKAGER: SCHULZ | CONTAINER TYPE: 5 gal

CONTAINER INVENTORY

#	WASTE IDENTIFICATION		CONTAINERS			OTHER INFORMATION
	CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE	
1	ETHYL ETHER	V117	1	1QT	METAL	Poly Lab
2						Waste Material
3						Packed in Vermiculite
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DRUM # 3B | MANIFEST # 07139 | PROFILE # DEA Hisley

DOT PROPER SHIPPING NAME: WASTE, Flammable Liquids, N.O.S. | HAZARD CLASS: Flammable | UN/NA # 1993

EPA WASTE CODE: U117 | NAME OF PACKAGER: SAMPLY | CONTAINER TYPE: 5 gal Poly

CONTAINER INVENTORY

#	WASTE IDENTIFICATION		CONTAINERS			OTHER INFORMATION
	CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE	
1	Ethyl Ether	U117	1	1QT	metal	Drug Lab
2						Virgin material
3						Produced in Virginia, PA.
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DRUM # 3C | MANIFEST # 07139 | PROFILE # DEA Hisley

DOT PROPER SHIPPING NAME: WASTE, Flammable Liquids, n.o.s. | HAZARD CLASS: Flammable | UN/NA # 1993

EPA WASTE CODE: U002 | NAME OF PACKAGER: SHAW | CONTAINER TYPE: 5 gal Poly

CONTAINER INVENTORY

#	WASTE IDENTIFICATION		CONTAINERS			OTHER INFORMATION
	CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE	
1	Acetone	U002	1	1GAL	metal	Orig Lab
2						Virgin material
3						Picked up Vandalia
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DRUM # 3D | MANIFEST # 07139 | PROFILE # ACA Higley

DOT PROPER SHIPPING NAME: WASTE, Flammable liquid, n.o.s. | HAZARD CLASS: Flammable | UN/NA # 1993

EPA WASTE CODE: U002 | NAME OF PACKAGER: SCHULTZ | CONTAINER TYPE: 5 gal

CONTAINER INVENTORY

#	WASTE IDENTIFICATION		CONTAINERS			OTHER INFORMATION
	CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE	
1	ACETONE	U002	1	1 GAL	METAL	Mixed Up
2						Unless Marked
3						Noted in Volume 4
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6

DRUM # 3E | MANIFEST # 07139 | PROFILE # DEA Hisley

DOT PROPER SHIPPING NAME: Waste Flammable Liquid N.O.S. | HAZARD CLASS: Flammable | ID/NA # 1993

EPA WASTE CODE: D001 | NAME OF PACKAGER: Stanley | CONTAINER TYPE: 5 gal Poly

CONTAINER INVENTORY

#	WASTE IDENTIFICATION		CONTAINERS			OTHER INFORMATION
	CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE	
1	Methyl Amine	D001	4	3Kg	Glass	Vacuum sealed
2						Poly Bag to
3						Packed in Vermiculite.
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PI Hearing
Cont.

MSD007

DRUM # 4 | MANIFEST # 07139 | PROFILE # PCA - Hisley

DOT PROPER SHIPPING NAME: Waste Corrosive solid, NOS | HAZARD CLASS: Corrosive | UN/NA # 1759

EPA WASTE CODE: D002 | NAME OF PACKAGER: SCMW | CONTAINER TYPE: Sgl Poly

CONTAINER INVENTORY

#	WASTE IDENTIFICATION		CONTAINERS			OTHER INFORMATION
	CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE	
1	Sodium Hydroxide	D002	2	500gl	Plastic	Virgin material
2	Sodium Acetate	D002	2	500gl	Glass	From a Lab
3	Sodium Acetate	D002	1	500gl	Plastic	
4	Potassium Hydroxide	D002	1	500gl	Plastic	
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MSD007

DRUM # 5 | MANIFEST # 07139 | PROFILE # DEA-Hisley

DOT PROPER SHIPPING NAME: Waste Corrosive Liquid, NA | HAZARD CLASS: Corrosive | ID NA # 1760

EPA WASTE CODE: D002 | NAME OF PACKAGER: SAMS | CONTAINER TYPE: Steel Pail

CONTAINER INVENTORY

	WASTE IDENTIFICATION		CONTAINERS			OTHER INFORMATION
	CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE	
1	Ammonium Hydroxide	D002	1	500mL	GLASS	VIRGIN MATERIAL
2						FROM A PRO
3						LAB
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US v MSP
Rec'd from MSP
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Cont.

MSD007

DRUM # 6 | MANIFEST # 07139 | PROFILE # DoA-Hicky

DOT PROPER SHIPPING NAME: waste, flammable solid, n.o.s. | HAZARD CLASS: Flammable Solid | UN/NA # 1325

EPA WASTE CODE: D001 | NAME OF PACKAGER: Hicky | CONTAINER TYPE: 55 gal poly

CONTAINER INVENTORY

#	WASTE IDENTIFICATION		CONTAINERS			OTHER INFORMATION
	CHEMICAL NAME	EPA WASTE CODE	#	SIZE	TYPE	
1	Red Phosphorus	D001	4	55 gal	METAL	VIRGIN MATERIAL FROM A DRUG LAB.
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Volume Exhibit 253 Page U.S. MANIFESTS
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PI Hearing

MSD007

0 0 0

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

RECYCLE / REUSE

MANIFEST Nº 911768

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. AZ P 0 0 0 0 0 6 2 3 9 | Manifest Document No. 1 2 7 9 9
2. Page 1 of 2
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: DRUG ENFORCEMENT ADMINISTRATION / NORTH 1ST ST, PHOENIX, AZ 85004
(602) 261-4866
4. Generator's Phone ( )

5. Transporter 1 Company Name: DISPOSAL CONTROL SERVICE
6. US EPA ID Number: A Z D 0 9 8 1 6 7 5 4 3 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: L A D 9 8 1 0 5 7 7 0 6
(504) 631-9316

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. RQ WASTE FLAMMABLE SOLIDS, NOS UN1325	002	DM	000.5	Y	D001
b.					
c.					

J. Additional Descriptions for Materials Listed Above — RECYCLE/REUSE APPROVAL FF DOSP/DEA/1890-46

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information: MATERIAL STORED AT RINCHEM ON MANIFEST # 09019 FROM 9-9-89 TO 12-19-89
WEAR PROPER PROTECTIVE EQUIPMENT
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
D.E.A.	Kevin Carver	12 19 89

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
DEL TREADWAY/Don Wetzel	Del Treadway/Don Wetzel	12 19 89

18. Transporter 2 Acknowledgement of Receipt of Materials — 12/26/89

Printed/Typed Name	Signature	Month Day Year

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
Dicky D. Campbell	Dicky Campbell	12 28 89

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MSD007

OCT 18 1989

89115466
MCDS Document #

OCT 19 1989

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

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

MSP CODE: _____

Generator Name DRUG ENFORCEMENT ADMINISTRATION
Facility Address ONE NORTH 1ST STREET, SUITE 201
City, State, Zip PHOENIX AZ 85004
Technical Contact KEVIN CARVER
Title AGENT
Telephone NO. (602) 261-4866 EXT: _____
Facility EPA ID # AZP0000623 39

Bill To: DISPOSAL CONTROL SERVICE INC
Address: 553 W ILLINI
City, State, Zip PHOENIX AZ 85041
Telephone #: (602) 269-0999
Company Contact: CYNTHIA CLEAVES
Container Size: 2 55-GAL METAL
EPA Waste No D001
Generating Process EMERGENCY RESPONSE DRUG LAB
Common Name of Waste CRUSHED CONTAINERS & CLEAN WOOD CONTAMINATED WITH ACETONE
Rate of Generation 2 55 GAL (Quan. / Units) PER ONE TIME (Time Period)
Volume in Storage 2 55 GAL (Quan. / Units) IN METAL DRUMS (Container Size and Type)

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

EMPTY METAL CONTAINERS	85-90 %
AND WOOD	%
ACETONE	0-10 %
VERMICULITE	0-5 %
	%
	%
	%

Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name WASTE FLAMMABLE SOLID, N.O.S.
Hazard Class FLAMMABLE ID No. UN1325
Transportation Equipment TRACTOR TRAILER
Placarding FLAMMABLE SOLID

METALS (EP Toxicity Test, mg/1)

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/1 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/1 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	[ ]	Uni-Layer	[ ]	Bilayer	[X]	Multilayer	
Viscosity	[X]	High	[ ]	Medium	[ ]	Low	
Type of Solids	[X]	Organic	[ ]	Inorganic	[ ]	Mixed	

Total Solids (wt. %) _____ Suspended Solids (wt. %) _____
BTU/lb 500-1000 % Ash Content < 5 % Water (by weight) _____
Flash Point (°F) < 140 Type PENSKY-MARTEN CLOSED CUP
Specific Gravity _____
Boiling Point, (°C) _____ Freezing Point, (°C) _____
Vapor Pressure (mm Hg @ 24°C) _____
pH (Avg) _____ (Range) _____ to _____
Total Alkalinity Acidity (%) _____
Odor _____
Color _____

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:

WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT

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 10/17/89 GENERATOR'S SIGNATURE: Kevin Carver on behalf of DEA

MSP FORM 1040 (REV. FEB 88)

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MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

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

MCDS Document # _____ 274

MSP CODE: _____

Generator Name: DRUG ENFORCEMENT ADMINISTRATION
Facility Address: ONE NORTH 1ST STREET, SUITE 201
City, State, Zip: PHOENIX AZ 85004
Technical Contact: KEVIN CARVER
Title: AGENT
Telephone NO.: (602) 261-4866 EXT: _____
Facility EPA ID #: AZP0000062 39

Bill To: DISPOSAL CONTROL SERVICE INC.
Address: 888 (W) ILLINI
City, State, Zip: PHOENIX AZ 85041
Telephone #: (602) 268-0999
Company Contact: CYNTHIA CLOWES
Container Size: 2 55-GAL METAL
EPA Waste No.: D001
Generating Process: EMERGENCY RESPONSE DRUG LAB
Common Name of Waste: CRUSHED CONTAINERS & CLEAN UP WOOD CONTAMINATED WITH ACETO.
Rate of Generation: 2 55GAL (Quan) (Units) PER ONE TIME (Time Interval)
Volume in Storage: 2 55-GAL (Quan) (Units) IN METAL DRUMS (Container Size and Type)

Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name: WASTE FLAMMABLE SOLID, N.O.S.
Hazard Class: FLAMMABLE ID No.: UN1325
Transportation Equipment: TRACTOR TRAILER
Placarding: FLAMMABLE SOLID

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

EMPTY METAL CONTAINERS AND WOOD	85-90 %
ACETONE	0-10 %
VERMICULITE	0-5 %
	%
	%
	%

METALS (EP Toxicity Test, mg/1)

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/1 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/1 or ppm)

Endrin	0	Organohalide	0
Methoxychlor	0	Mercaptans	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	[ ] Uni-Layer	[ ] Bilayer	[X] Multilayer	
Viscosity	[X] High	[ ] Medium	[ ] Low	
Type of Solids	[X] Organic	[ ] Inorganic	[ ] Mixed	

Total Solids (wt. %) _____ Suspended Solids (wt. %) _____
BTU/lb 500-1000 % Ash Content < 5 % Water (by weight) _____
Flash Point (°F) < 140 Type PENSKY-MARTEN CLOSED CUP.
Specific Gravity _____
Boiling Point, (°C) _____ Freezing Point, (°C) _____
Vapor Pressure (mm Hg @ 24°C) _____
pH (Avg) SOLID NEUTRAL PH (Range) _____ to (AVG 6-5) Y. S/A MC
Total Alkalinity/Acidity (%) _____
Odor _____
Color _____

HAZARDOUS PROPERTIES

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

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT

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 10/17/89 GENERATOR'S SIGNATURE: Kevin Carver on behalf of DEA

MSP FORM 1048 (REV. FEB 88)

X 11/22/89

X S/A Kevin Carver on behalf of DEA.

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PI MANIFESTS

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

RECYCLE / REUSE

MANIFEST Nº 909242

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. CO 7360 0076261 Manifest Document No. 018907

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

3. Generator's Name and Mailing Address
VA MEDICAL CENTER
1055 CLERMONT ST.
DENVER, CO 80220

4. Generator's Phone (303) 399-8020 X-2892

5. Transporter 1 Company Name — 6. US EPA ID Number
ROCKY MOUNTAIN ENVIRONMENTAL, INC. — COD 981544018

7. Transporter 2 Company Name — 8. US EPA ID Number
WESTWAY MOTOR FREIGHT — COD007818989

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
B. State Generator's ID
C. State Transporter's ID
D. Transporter's Phone (303) 762-1012
E. State Transporter's ID
F. Transporter's Phone (303) 278-4220
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 CORROSIVE SOLID, NOS, CORROSIVE MATERIAL UN-1759	001	DM	008	P	D002 R
b. WASTE CORROSIVE LIQUID, NOS, CORROSIVE MATERIAL UN-1760	002	DM	010	G	D002, D007 R
c.					R
d.					R

GENERATOR

J. Additional Descriptions for Materials Listed Above — RECYCLE/REUSE
a. RME/UNMI/890259/LP [illegible]
b. RME/UNMI/890259/LP [illegible]

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY OR MANIFEST DISCREPANCY, NOTIFY RMEI @ 303/762-1012
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
Richard Colby	[signature]	06 05 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
DAVID A. GENOVA	[signature]	06 05 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
DAN ROTH	Daniel R Roth	10 6 01 3 89

19. Discrepancy Indication Space

FACILITY

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

Printed/Typed Name	Signature	Month Day Year
Gail Leonard	[signature]	06 13 89

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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 4430
BATON ROUGE, LOUISIANA 70804

6-13-89
11:10 A.m.

RECYCLE / REUSE

MANIFEST Nº 910805

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

Form Approved OMB No. 2050-0039 Expires 9-31

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. CO 7360010261 Manifest Document No. 108807
2. Page 1 of 2
Information in the shaded area is not required by Federal law.

3. Generator's Name and Mailing Address
VA MEDICAL CENTER
1055 CLERMONT ST.
DENVER, CO 80220

4. Generator's Phone (303) 399-8020 x-2892

5. Transporter 1 Company Name
ROCKY MOUNTAIN ENVIRONMENTAL, INC.

6. US EPA ID Number
COD981544018

7. Transporter 2 Company Name
WESTWAY MOTOR FREIGHT

8. US EPA ID Number
COD007810989

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 (303) 762-1012

E. State Transporter's ID

F. Transporter's Phone (303) 228-4220

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, NOS, FLAMMABLE LIQUID UN-1993	018	DM	240	G	D001, U220, U196, U108, U154, U213, U359, U117, U103
b. HAZARDOUS WASTE LIQUID, NOS, ORM-E NA-9189	002	DM	060	G	U157 R
c. WASTE FLAMMABLE SOLID, NOS, FLAMMABLE SOLID UN-1325	001	DM	005	P	D001 R
d. WASTE POISONOUS SOLID, NOS, POISON B UN-2811	002	DM	015	P	P105 R

J. Additional Descriptions for Materials Listed Above — K. Handling Codes for Wastes Listed Above

a. RMC/VAMC/8902759/LP/ LAND PACK
b. RMC/VAMC/8902759/LP/ LAND PACK
c. RMC/VAMC/8902759/LP/ LAND PACK
d. RMC/VAMC/8902759/LP/ LAND PACK

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY OR MANIFEST DISCREPANCY, NOTIFY RMEI
C 303/762-1112
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: Richard Colby — Signature: [signature] — Month 06 Day 05 Year 89

17. Transporter 1 Acknowledgement of Receipt of Materials

TRANSPORTER

Printed/Typed Name: DAVID A. GENOVA — Signature: [signature] — Month 06 Day 05 Year 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name: DAN ROTH — Signature: [signature] — Month 06 Day 08 Year 89

19. Discrepancy Indication Space
11a. Column I-removed waste NO. U157-R and inserted U157-L per instructions of Richard Colby on 6-13-89

FACILITY

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

Printed/Typed Name: Gail Leonard — Signature: [signature] — Month [illegible] Day [illegible] Year [illegible]

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MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

SALES (504) 465-3310

P. O. BOX 1698
KENNER, LA 70063

MCDS Document # 8902759

MAY 22 1989

MSP CODE: _____

#1 Generator Name VA MEDICAL CENTER
Facility Address 1055 CLERMONT STREET
City, State, Zip DENVER, COLORADO 80220-3877
Technical Contact RICH COLBY
Title SAFETY OFFICER
Telephone NO. (303) 399-8020 EXT: 2892
Facility EPA ID # CO7360010261

#2 CHEMICAL COMPOSITION (No Trade Name)
(Totals must add up to 100%) SEE PACKING LIST

	%
	%
	%
	%
	%
	%
	%

#3 METALS (EP Toxicity Test, mg/l) SEE PACKING LIST

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

#4 INORGANICS (mg/l or ppm) SEE PACKING LIST

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

#5 ORGANICS (mg/l or ppm) SEE PACKING LIST

Endrin		Organohalide	
Methoxychlor		Mercaptans	
Toxaphene			
2,4-D			
2,4,5-T			
Fluenolics)			
PCBs			
Dioxin			
TOC			

#6 Bill To: ROCKY MOUNTAIN ENVIRONMENTAL, INC.
Company Contact: DAVE GENOVA
Container Size: SEE PACKING LIST
EPA Waste No SEE PACKING LIST
Generating Process FACILITY CLEAN OUT
Common Name of Waste LAB PACK
Rate of Generation _____ (Quan) _____ (Units) PER _____ (Time Interval)
Volume in Storage _____ (Quan) (Units) IN _____ (Container Size and Type)
Is Waste DOT Hazardous | X | YES | | NO
Proper DOT Shipping Name
Hazard Class _____ ID No.
Transportation Equipment ENCLOSED SEMI-TRAILER
Placarding SEE PACKING LIST

SEE PACKING LIST

#7 PHYSICAL DESCRIPTION SEE PACKING LIST

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

Total Solids (wt. %) _____ Suspended Solids (wt. %) _____
BTU/lb _____ % Ash Content _____ % Water (by weight) _____
Flash Point (°F) _____ Type _____
Specific Gravity _____
Boiling Point, (°C) _____ Freezing Point, (°C) _____
Vapor Pressure (mm Hg @ 24°C) _____
pH (Avg) _____ (Range) _____ to _____
Total Alkalinity/Acidity (%) _____
Odor _____
Color _____

#8 HAZARDOUS PROPERTIES SEE PACKING LIST

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

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES: OSHA LEVEL C

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 5/19/89 GENERATOR'S SIGNATURE: _____

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Rocky Mountain Environmental, Inc.

2751 West Oxford, Unit 1 • Englewood, Colorado 80110 • (303) 762-1012

May 19, 1989

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

Dear Mr. Jaubert:

Please find enclosed a lab pack profile for your acceptance. I would greatly appreciate your immediate attention to this lab pack so I can share transportation with the previously approved Manville lab pack.

Thank you for your expedient cooperation. Please call if you have any questions or need further information.

Respectfully,

David A. Genova
Vice President

MSD007

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MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 1 PAGE 1 OF 1

DOT DESCRIPTION: WASTE FLAMMABLE LIQUID, NOS, FLAMMABLE LIQUID (UN/NA) NO: 1993
(Circle One)

CONTAINER SIZE: 30 GAL (30 Gal. or less) CONTAINER TYPE: FIBER (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	(UN)/NA	EPA WASTE NO.
01	SOLUENE 100	3	500 ml	FLAM. LIQ	1993	D001
02	PERMOUNT	7	500 ml	FLAM. LIQ.	1993	D001
03	TOLUENE	1	500 ml	FLAM. LIQ.	1993	D001, U220
04	CYCLOHEXANONE	2	1500 ml	FLAM. LIQ.	1993	D001, U057
05	NCS TISSUE SOLUBILIZER	4	200 ml	FLAM. LIQ.	1993	D001
06	UNIVERSAL COCKTAIL	1	250 ml	FLAM. LIQ.	1993	D001
07	PYRIDINE	1	100 ml	FLAM LIQ.	1993	D001, U196
08	TOLUENE	5	200 ml	FLAM. LIQ.	1993	D001, U057
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I AM AN AUTHORIZED EMPLOYEE OF ROCKY MOUNTAIN ENVIRONMENTAL, INC
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [signature] SIGNATURE
2. 5/19/89 DATE
3. DAVID A. GENOVA NAME (Type or Print)
4. V. PRES. TITLE

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MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 2 DA PAGE 1 OF 1

DOT DESCRIPTION: WASTE FLAMMABLE LIQUID, NOS, FLAMMABLE LIQUID (UN)/NA NO: 1993
(Circle One)

CONTAINER SIZE: 30 GAL (30 Gal. or less) CONTAINER TYPE: FIBER (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	(UN)/NA	EPA WASTE NO.
01	1) DIOXANE	4 DA	1 GAL.	FLAM. LIQ.	1993	D001, U108
02						
03						
04						
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1. [signature] SIGNATURE 2. 5/19/89 DATE

3. DAVID A. GENOVA NAME (Type or Print) 4. V. PRES. TITLE

MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 3 PAGE 1 OF 1

DOT DESCRIPTION: HAZARDOUS WASTE LIQUID, NOS, ORM-E UN/NA NO: 9189
(Circle One)

CONTAINER SIZE: 30 GAL (30 Gal. or less) CONTAINER TYPE: FIBER (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN (NA)	EPA WASTE NO.
01	PIPERIDINE	1	100 ml	ORM-E	9189	U179
02	DIMETHYL SULFATE	1	100 gm	ORM-E	9189	U103
03	N,N-DIMETHYL-1-NAPHTHYLAMINE	1	25 ml	ORM-E	9189	NON-REGULATED
04	AMMONIUM SULFIDE	1	½ Pt	ORM-E	9189	NON-REGULATED
05	BUFFER SOLUTION	1	½ GAL	ORM-E	9189	NON-REGULATED
06	ETHYLENE GLYCOL	1	1 L	ORM-E	9189	NON-REGULATED
07	PUMP OIL	2	1 Qt	ORM-E	9189	NON-REGULATED
08	ME OH	1	100 ml	ORM-E	9189	NON-REGULATED
09	DIMETHYL SULFOXIDE (DMSO)	4 1	500 ml 1 L 1 Qt	ORM-E	9189	NON-REGULATED
10	POLYPHENYLENE OXIDE IN DMSO	1	300 ml	ORM-E	9189	NON-REGULATED
11	HEMATOXYLIN	1	473 ml	ORM-E	9189	NON-REGULATED
12	GOLD CHLORIDE	1	1 gm	ORM-E	9189	NON-REGULATED
13	AMMONIUM ACETATE	2	400 ml	ORM-E	9189	NON-REGULATED
14	TRIETHANOLAMINE	1	300 ml	ORM-E	9189	NON-REGULATED
15	POLYMETHYLENE SULFONIC ACID	1	5 gm	ORM-E	9189	NON-REGULATED
16	SODIUM SALT	1	1 Pt	ORM-E	9189	NON-REGULATED

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1. [signature] SIGNATURE 2. 5/19/89 DATE

3. DAVID A. GENOVA NAME (Type or Print) 4. V. PRES. TITLE

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MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 4 PAGE 1 OF 1

DOT DESCRIPTION: HAZARDOUS WASTE LIQUID, NOS ORM-E UN/(NA) NO: 9189
(Circle One)

CONTAINER SIZE: 30 GAL (30 Gal. or less) CONTAINER TYPE: FIBER (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/(NA)	EPA WASTE NO.
01	INDOMETHACIN	1	10 gm	ORM-E	9189	NON-REGULATED
02	RHODAMINE	1	25 gm	ORM-E	9189	NON-REGULATED
03	BUFFER	1	1 Qt	ORM-E	9189	NON-REGULATED
04	NON-IDET	1	500 ml	ORM-E	9189	NON-REGULATED
05	MAGNESIUM CHLORIDE	1 1	100 gm 1 lb.	ORM-E	9189	NON-REGULATED
06	ENHANCER	1	500 ml	ORM-E	9189	NON-REGULATED
07	CUPRIC SULFATE	1	1 LB	ORM-E	9189	NON-REGULATED
08	CALCIUM IONOPHORE	1	100 gm	ORM-E	9189	NON-REGULATED
09	ACETYLSALICYCLIC ACID	1	100 gm	ORM-E	9189	NON-REGULATED
10	MORCHATHOETHANOL	1	100 ml	ORM-E	9189	NON-REGULATED
11	ISOPROTERENOL	1	5 gm	ORM-E	9189	NON-REGULATED
12	VERAPAMIL	1	1 gm	ORM-E	9189	NON REGULATED
13	ARTERENOL	1	1 gm	ORM-E	9189	NON-REGULATED
14	BORIC ACID	1	1 LB.	ORM-E	9189	NON-REGULATED
15	IODOFORM	2	1/4 LB	ORM-E	9189	NON-REGULATED
16	SODIUM THIOCYANATE	2	1 kg	ORM-E	9189	NON-REGULATED

I AM AN AUTHORIZED EMPLOYEE OF ROCKY MOUNTAIN ENVIRONMENTAL, INC.
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [signature] SIGNATURE
2. 5/19/89 DATE
3. DAVID A. GENOVA NAME (Type or Print)
4. V. PRES. TITLE

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MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 4 PAGE 2 OF 2

DOT DESCRIPTION: HAZARDOUS WASTE LIQUID NOS, ORM-E UN/NA NO: 9189
(Circle One)

CONTAINER SIZE: 30 GAL (30 Gal. or less) CONTAINER TYPE: FIBER (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/(NA)	EPA WASTE NO.
01	8-QUINOLINOL	1	1 oz	ORM-E	9189	NON-REGULATED
02	PHENYLHYDRAZINE	1	100 ml	ORM-E	9189	NON-REGULATED
03	SULFADIAZINE	1	50gm	ORM-E	9189	NON-REGULATED
04	SODIUM DIATRIZOATE	1	100gm	ORM-E	9189	NON-REGULATED
05	p-DIMETHYLAMINOBENZALDEHYDE	1	25gm	ORM-E	9189	NON-REGULATED
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1. [signature] SIGNATURE 2. 5/19/89 DATE

3. DAVID A. GENOVA NAME (Type or Print) 4. V. PRES. TITLE

MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 5 PAGE 1 OF 1

DOT DESCRIPTION: WASTE FLAMMABLE LIQUID, NOS, FLAMMABLE LIQUID (UN)/NA NO: 1993
(Circle One)

CONTAINER SIZE: 30 GAL (30 Gal. or less) CONTAINER TYPE: FIBER (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	(UN)/NA	EPA WASTE NO.
01	PROPANOL MIXTURE	1	4 L	FLAM. LIQ.	1993	D001,
02	CHEM-SOL	1	½ QT	FLAM. LIQ	1993	D001
03	PBS	1	½ GAL	FLAM. LIQ.	1993	D001
04	XYLENE	1 1	1 GAL 1 PT	FLAM. LIQ.	1993	D001, U239
05	1-4 SCINTALYZED DIOXANE	1	1 GAL	FLAM. LIQ	1993	D001, U108
06	PERMOUNT	1	500 ml	FLAM. LIQ.	1993	D001
07	ISOPROPANOL	1	50 ml	FLAM. LIQ.	1993	D001
08	DIMETHYLFORMALDEHYDE	1	1 PT	FLAM. LIQ.	1993	D001
09	METHYL ALCOHOL	1	100 ml	FLAM. LIQ	1993	D001, U154
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I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [signature] SIGNATURE
2. 5/19/89 DATE
3. DAVID A. GENOVA NAME (Type or Print)
4. V. PRES. TITLE

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MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 6 PAGE 1 OF 1

DOT DESCRIPTION: WASTE FLAMMABLE LIQUID, NES, FLAMMABLE LIQUID (UN)/NA NO: 1993
(Circle One)

CONTAINER SIZE: 5 GM (30 Gal. or less) CONTAINER TYPE: POLY (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	(UN)/NA	EPA WASTE NO.
01	BIOFLUOR	1	500 ml	FLAM. LIQ.	1993	D001
02	ECONOFLUOR	1	500 ml	FLAM. LIQ.	1993	D001
03	LIQUIFLUOR	1	1000 ml	FLAM. LIQ.	1993	D001
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1. [signature] SIGNATURE
2. 5/19/89 DATE
3. DAVID A. GENOVA NAME (Type or Print)
4. V. PRES. TITLE

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MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO2360010261

LAB PACK CONTAINER NO: 7 PAGE 1 OF 1

DOT DESCRIPTION: WASTE FLAMMABLE LIQUIDS, NOS FLAMMABLE LIQUID (UN)NA NO: 1993
(Circle One)

CONTAINER SIZE: 5 GAL (30 Gal. or less) CONTAINER TYPE: POLY (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	(UN)NA	EPA WASTE NO.
01	TETRAHYDROFURAN	1	1 GAL	FLAM. LIQ.	1993	U213
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I AM AN AUTHORIZED EMPLOYEE OF ROCKY MOUNTAIN ENVIRONMENTAL, INC
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [signature] SIGNATURE 2. 5/19/89 DATE

3. DAVID A. GENOVA NAME (Type or Print) 4. V. PRES. TITLE

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GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 8 PAGE 1 OF 1

DOT DESCRIPTION: WASTE FLAMMABLE LIQUIDS, NOS / FLAMMABLE LIQUIDS (UN) NA NO: 1993
(Circle One)

CONTAINER SIZE: 5 GAL (30 Gal. or less) CONTAINER TYPE: POLY (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	(UN) NA	EPA WASTE NO.
01	TETRAHYDROFURAN	1	1 GAL	FLAM. LIC.	1993	U213
02						
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1. [signature] SIGNATURE
2. 5/19/89 DATE
3. DAVID A. GENOVA NAME (Type or Print)
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GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 9 PAGE 1 OF 1

DOT DESCRIPTION: WASTE FLAMMABLE LIQUID, NOS / FLAMMABLE LIQUID (UN)/NA NO: 1993
(Circle One)

CONTAINER SIZE: 5 GAL (30 Gal. or less) CONTAINER TYPE: POLY (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	(UN)/NA	EPA WASTE NO.
01	TETRAHYDROFURAN	1	1 GAL	FLAM. LIQ.	1993	U213
02						
03						
04						
05						
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1. [signature] SIGNATURE
2. 5/19/89 DATE
3. DAVID A. GENOVA NAME (Type or Print)
4. V. PRES. TITLE

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MSD007

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 10 PAGE 1 OF 1

DOT DESCRIPTION: WASTE FLAMMABLE LIQUIDS, NOS / FLAMMABLE LIQUID (UN)/NA NO: 1993
(Circle One)

CONTAINER SIZE: 5 GAL (30 Gal. or less) CONTAINER TYPE: POLY (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	(UN)/NA	EPA WASTE NO.
01	TETRAHYDROFURAN	1	1 GAL	FLAM. LIQ.	1993	U213
02						
03						
04						
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1. [signature] SIGNATURE 2. 5/19/89 DATE

3. DAVID A. GENOVA NAME (Type or Print) 4. V. PRES. TITLE

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GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 11 PAGE 1 OF 1

DOT DESCRIPTION: WASTE FLAMMABLE LIQUIDS, NOS FLAMMABLE LIQUID (UN) NA NO: 1993
(Circle One)

CONTAINER SIZE: 5 GAL (30 Gal. or less) CONTAINER TYPE: POLY (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	(UN) NA	EPA WASTE NO.
01	TETRAHYDROFURAN	1	1 GAL	FLAM. LIC.	1993	U213
02						
03						
04						
05						
06						
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I AM AN AUTHORIZED EMPLOYEE OF ROCKY MOUNTAIN ENVIRONMENTAL, INC
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [signature] SIGNATURE
2. 5/19/89 DATE
3. DAVID A. GENOVA NAME (Type or Print)
4. V. PRES. TITLE

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GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 12 PAGE 1 OF 1

DOT DESCRIPTION: WASTE FLAMMABLE LIQUIDS, NOS / FLAMMABLE LIQUID (UN)/NA NO: 1993
(Circle One)

CONTAINER SIZE: 5 GAL (30 Gal. or less) CONTAINER TYPE: POLY (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	(UN)/NA	EPA WASTE NO.
01	TETRAHYDROFURAN	1	1 GAL	FLAM. LIQ.	1993	U213
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I AM AN AUTHORIZED EMPLOYEE OF ROCKY MOUNTAIN ENVIRONMENTAL, INC
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [signature] SIGNATURE
2. 5/19/89 DATE
3. DAVID A. GENOVA NAME (Type or Print)
4. V. PRES. TITLE

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MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 13 PAGE 1 OF 1

DOT DESCRIPTION: WASTE FLAMMABLE LIQUID, NOS / FLAMMABLE LIQUID UN/NA NO: 1993
(Circle One)

CONTAINER SIZE: 5 GAL (30 Gal. or less) CONTAINER TYPE: POLY (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	BENZENE	1	1 GAL	FLAM. LIQ.	1993	D001, D019
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I AM AN AUTHORIZED EMPLOYEE OF ROCKY MOUNTAIN ENVIRONMENTAL, INC.
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [signature] SIGNATURE
2. 5/19/89 DATE
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4. V. PRES. TITLE

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MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 14 PAGE 1 OF 1

DOT DESCRIPTION: WASTE FLAMMABLE SOLID, NOS, FLAMMABLE SOLID UN/NA NO: 1325
(Circle One)

CONTAINER SIZE: 5 GAL (30 Gal. or less) CONTAINER TYPE: POLY (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	YELLOW PHOSPHOROUS	1	1/2 gm	FLAM. SOLID	1325	D001
02						
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I AM AN AUTHORIZED EMPLOYEE OF ROCKY MOUNTAIN ENVIRONMENTAL, INC. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [signature] SIGNATURE 2. 5/19/89 DATE

3. DAVID A. GENOVA NAME (Type or Print) 4. V. PRES. TITLE

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MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 15 PAGE 1 OF 1

DOT DESCRIPTION: ~~FLAMMABLE LIQUID~~ WASTE FLAMMABLE LIQUID, NOS UN/NA NO: 1993
(Circle One)

CONTAINER SIZE: 5 GAL (30 Gal. or less) CONTAINER TYPE: POLY (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	2-METHYLBUTANE	1	1 GAL	FLAM. LIQ.	1993	D001
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MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 16 PAGE 1 OF 1

DOT DESCRIPTION: WASTE FLAMMABLE LIQUID, NOS / FLAMMABLE LIQUID UN/NA NO: 1993
(Circle One)

CONTAINER SIZE: 5 GAL (30 Gal. or less) CONTAINER TYPE: POLY (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	(UN)/NA	EPA WASTE NO.
01	ETHER	2	500 gm	FLAM. LIQ.	1993	D001
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I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [signature] SIGNATURE
2. 5/19/89 DATE
3. DAVID A. GENOVA NAME (Type or Print)
4. V. PRES. TITLE

MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 17 PAGE 1 OF 1

DOT DESCRIPTION: ~~Flammable Liquid~~ WASTE FLAMMABLE LIQUID, NOS UN/NA NO: 1993
(Circle One)

CONTAINER SIZE: 5 GAL (30 Gal. or less) CONTAINER TYPE: POLY (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	ETHER	3	500 gm	FLAM. LIQ.	1993	D001
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1. [signature] SIGNATURE 2. 5/19/89 DATE

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MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 18 PAGE 1 OF 1

DOT DESCRIPTION: WASTE POISONOUS SOLID, NOS POISON B (UN/NA) NO: 2811
(Circle One)

CONTAINER SIZE: 5 GAL (30 Gal. or less) CONTAINER TYPE: POLY (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	(UN)/NA	EPA WASTE NO.
01	SODIUM AZIDE 10%	1	500 gm 50 ml	POISON B	2811	P105
02	AZIDE	1	100 ml	POISON B	2811	NON-REGULATED
03	SODIUM CACODYLATE	1	500 gm	POISON B	2811	NON-REGULATED
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I AM AN AUTHORIZED EMPLOYEE OF ROCKY MOUNTAIN ENVIRONMENTAL INC.
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

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MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 19 PAGE 1 OF 1

DOT DESCRIPTION: WASTE OXIDIZER, NOS, OXIDIZER (UN)/NA NO: 1479
(Circle One)

CONTAINER SIZE: 5 Gallon (30 Gal. or less) CONTAINER TYPE: POLY (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	LEAD NITRATE	1 1	1 LB 100 gm	OXIDIZER	1479	D008
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I AM AN AUTHORIZED EMPLOYEE OF ROCKY MOUNTAIN ENVIRONMENTAL, INC.
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [signature] SIGNATURE 2. 5/19/89 DATE

3. DAVID A. GENOVA NAME (Type or Print) 4. V. PRES. TITLE

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MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 20 PAGE 1 OF 1

DOT DESCRIPTION: WASTE POISONOUS SOLID, NOS POISON B (UN)/NA NO: 2811
(Circle One)

CONTAINER SIZE: 5 Gal. (30 Gal. or less) CONTAINER TYPE: Poly (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	(UN)/NA	EPA WASTE NO.
01	Potassium Ferricyanide	1	1 LB	Poison B	2811	Non-Regulated
02	Sodium Nitroferricyanide	3 1	1 oz 1 LB	Poison B	2811	Non-Regulated
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I AM AN AUTHORIZED EMPLOYEE OF Rocky Mountain Environmental, Inc.
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [signature] SIGNATURE
2. 5/19/89 DATE
3. David A. Genova NAME (Type or Print)
4. V. Pres. TITLE

MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 21 PAGE 1 OF 1

DOT DESCRIPTION: NOS, WASTE FLAMMABLE LIQUID (UN)/NA NO: 1993
(Circle One)

CONTAINER SIZE: 5 GAL (30 Gal. or less) CONTAINER TYPE: POLY (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	(UN)/NA	EPA WASTE NO.
01	TRIETHYLAMINE	2	400 gm	Flam. Liq.	1993	D001
02	ACETONE WASTE	2	500 ml	Flam Liq.	1993	D001, U002
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I AM AN AUTHORIZED EMPLOYEE OF ROCKY MOUNTAIN ENVIRONMENTAL INC
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

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3. DAVID A. GENOVA NAME (Type or Print)
4. V. PRES. TITLE

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MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 22 PAGE 1 OF 1

DOT DESCRIPTION: WASTE FLAMMABLE LIQUID, NOS, FLAMMABLE LIQUID (UN/NA) NO: 1993
(Circle One)

CONTAINER SIZE: 5 GAL (30 Gal. or less) CONTAINER TYPE: POLY (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	(UN/NA)	EPA WASTE NO.
01	ACETONE WASTE	3	500 ml	FLAM-LIQ.	1993	D001, U002
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I AM AN AUTHORIZED EMPLOYEE OF ROCKY MOUNTAIN ENVIRONMENTAL, INC
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [signature] SIGNATURE
2. 5/19/89 DATE
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LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 23 PAGE 1 OF 1

DOT DESCRIPTION: WASTE FLAMMABLE LIQUID, NOS, FLAMMABLE LIQUID (UN)/NA NO: 1993
(Circle One)

CONTAINER SIZE: 30 GAL (30 Gal. or less) CONTAINER TYPE: FIBER (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	(UN)/NA	EPA WASTE NO.
01	1) DIOXANE	4	1 GAL.	FLAM. LIQ.	1993	D001, U108
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I AM AN AUTHORIZED EMPLOYEE OF ROCKY MOUNTAIN ENVIRONMENTAL, INC
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [signature] SIGNATURE 2. 5/19/89 DATE

3. DAVID A. GENOVA NAME (Type or Print) 4. V. PRES. TITLE

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MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 24 PAGE 1 OF 1

DOT DESCRIPTION: WASTE FLAMMABLE LIQUID NOS, FLAMMABLE LIQUID (UN)NA NO: 1993
(Circle One)

CONTAINER SIZE: 30 GAL (30 Gal. or less) CONTAINER TYPE: FIBER (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	(UN)NA	EPA WASTE NO.
01	1-2 DICHLOROETHANE	1	500 ml	FLAM LIQ.	1993	D001
02	CHLORINATED HYDROCARBONS	1	4 L	FLAM. LIQ.	1993	D001
03	METHYLENE CHLORIDE	3	1 PT	FLAM LIQ	1993	U080
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MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 25 PAGE 1 OF 1

DOT DESCRIPTION: WASTE FLAMMABLE LIQUID, NOS / FLAMMABLE LIQUID (UN)/NA NO: 1993
(Circle One)

CONTAINER SIZE: 30 Gal. (30 Gal. or less) CONTAINER TYPE: FIBER (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	(UN)/NA	EPA WASTE NO.
01	Chloroform/Methanol mix	3	4L	Flam. Liq.	1993	D001, U044
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MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 26 PAGE 1 OF _____

DOT DESCRIPTION: WASTE CORROSIVE SOLID, NOS CORROSIVE MATERIAL UN/NA NO: 1759
(Circle One)

CONTAINER SIZE: 5 GAL (30 Gal. or less) CONTAINER TYPE: POLY (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Sodium Hydroxide	1	1/4 LB	CORROSIVE	1759	D002
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1. _____ SIGNATURE
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3. DAVID A. GENOVA NAME (Type or Print)
4. V. PRES. TITLE

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MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 27 PAGE 1 OF 1

DOT DESCRIPTION: WASTE CORROSIVE LIQUID, NOS CORROSIVE MIXTURE UN/NA NO: 1760
(Circle One)

CONTAINER SIZE: 5 Gal (30 Gal. or less) CONTAINER TYPE: Poly (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	ACID DICHROMATE	1 / 1	5 PT 300 ml IK	CORROSIVE	1760	D002, D007
02						
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1. [signature] SIGNATURE
2. 5/19/89 DATE
3. DAVID A. GENOVA NAME (Type or Print)
4. V. PRES. TITLE

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MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 28 PAGE 1 OF 1

DOT DESCRIPTION: WASTE CORROSIVE LIQUID, NOS / CORROSIVE LIQUID UN/NA NO: 1760
(Circle One)

CONTAINER SIZE: 5 GAL (30 Gal. or less) CONTAINER TYPE: POLY (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	NITRIC ACID	1	4 LB	CORROSIVE		D002
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						

I AM AN AUTHORIZED EMPLOYEE OF ROCKY MOUNTAIN ENVIRONMENTAL, INC
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [signature] SIGNATURE
2. 5/19/89 DATE
3. DAVID A. GENOVA NAME (Type or Print)
4. V. PRES. TITLE

MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO2360010261

LAB PACK CONTAINER NO: 29 PAGE 1 OF 1

DOT DESCRIPTION: WASTE FLAMMABLE LIQUID, NOS / FLAMMABLE LIQUID UN/NA NO: 1993
(Circle One)

CONTAINER SIZE: 5 Gal (30 Gal. or less) CONTAINER TYPE: Poly (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	OPTI-FLUOR	1	500 ml	Flam. Liq.	1993	D001
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						

I AM AN AUTHORIZED EMPLOYEE OF ROCKY MOUNTAIN ENVIRONMENTAL, INC.
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [signature] SIGNATURE
2. 5/19/89 DATE
3. DAVID A. GENOVA NAME (Type or Print)
4. V. PRES. TITLE

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MSP LAB PACK INVENTORY

GENERATOR NAME: VA MEDICAL CENTER DATE: 5/19/89

GENERATOR LOCATION: DENVER, CO 80220 GENERATOR EPA ID: CO7360010261

LAB PACK CONTAINER NO: 30 PAGE 1 OF 1

DOT DESCRIPTION: WASTE FLAMMABLE LIQUID, NOS FLAMMABLE LIQUID UN/NA NO: 1993
(Circle One)

CONTAINER SIZE: 5 Gal (30 Gal. or less) CONTAINER TYPE: POLY (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	ACETONE	1	½ L	FLAM. LIQ.	1993	U002, D001
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						

I AM AN AUTHORIZED EMPLOYEE OF ROCKY MOUNTAIN ENVIRONMENTAL, INC
I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. [signature] SIGNATURE
2. 5/19/89 DATE
3. DAVID A. GENOVA NAME (Type or Print)
4. V. PRES. TITLE

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

RECYCLE / REUSE

MANIFEST No. 903324

(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.
D C P 0 0 0 0 0 1 0 4 / 0 9 9 0 0		

3. Generator's Name and Mailing Address
PETER KOENER c/o
AMERICAN RED CROSS-DC CHAPTER
2025 E ST., NW, WASHINGTON, DC 20006

4. Generator's Phone (202) 728-6506

5. Transporter 1 Company Name
EASTERN CHEMICAL WASTE SYSTEMS

6. US EPA ID Number
D C D 9 8 1 7 3 5 2 4 4

7. Transporter 2 Company Name
EASTERN CHEMICAL WASTE SYSTEMS

8. US EPA ID Number
D C D 9 8 1 7 3 5 2 4 4

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.
WASTE ETHYLENE IMINE, INHIBITED FLAMMABLE LIQUID UN1185 (P054R)	01	DF	108	P	P054

[redacted]

Special Handling Instructions and Additional Information
ES PAN 8 GALLON SIZE FIBER DRUM;

UNABLE TO DELIVER, RETURN TO GENERATOR

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
PETER KOENER	Peter Koener	02	15	89

Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
KURT OVERBERGER	Kurt Overberger	02	15	89

Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Fred Hoffman	Fred Hoffman	02	22	89

Generator's EPA ID number changed to DCP000001047
instructions from Peter Koerner on 2-28-89 97

Discrepancy Indication Space

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

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NOV 30 1988 HOUSTON SHALE PROCESSORS, INC

MATERIALS CHARACTERIZATION DATA SHEET

HCDS Document #

SALES (504) 465-5310
PLANT (504) 631-3625

HSP CODE: _____

8809391

Generator Name: American Red Cross
Facility Address: 3615 V. St. N.W.

City, State, Zip: Washington DC 20007
Technical Contact: Peter K. [illegible]
Title: [illegible]
Telephone NO.: 202-728-6501 EXT:
Facility EPA ID #: DC DCC CCC 1047

Bill To: Eastern Chemical Waste Systems
Company Contact: Jane Mc. Nelson
Container Size: 5 gal Fiber (lab pack)
EPA Waste No.: D035
Generating Process: lab chemicals
Common Name of Waste: Ethylenemine
Rate of Generation: 1 qt (Quan / Units) PER 1 time (Time interval)
Volume in Storage: 1 quart IN 5 gal fiber (lab pack) (Quan / Units / Container Size and Type)
Is Waste DOT Hazardous: [X] YES [ ] NO
Proper DOT Shipping Name: Waste Ethylenemine
Hazard Class: Flammable I.D No.: UN 1185
Transportation Equipment: bulk tanker
Placarding: Not Req

CHEMICAL COMPOSITION (No Trade Names)

(Totals must add up to 100%)

Ethylenemine	100 %
AIR PACKED	%
	%
CHEMICAL	%
	%
	%

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	Silver (Ag)
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	Iodine
Amenable CN	Asbestos
Fluoride	
Chloride	
Sulfites	
Sulfides	
Sulfates	
Ammonia	
Amines	
Cyanine	

ORGANICS (mg/l or ppm)

Benzene	Organohalide Pesticides
Toluene	
Xylenes	
Phenol	
Cresols	

PHYSICAL DESCRIPTION

Physical State	[X] Liquid	[ ] Semi-solid	[ ] Solid	
Phases/Layering	[ ] One-layer	[ ] 2-layer	[ ] Multi-layer	
Viscosity	[ ] High	[X] Medium	[ ] Low	
Type of Solids	[ ] Organic	[ ] Inorganic	[ ] Mixed	
Total Solids (wt. %)	_____	Suspended Solids (wt. %)	_____	
BTU/lb	_____	% Ash Content	_____	% Water (by weight) _____
Flash Point (°F)	_____	Type	_____	
Specific Gravity	_____			
Boiling Point (°C)	_____	Freezing Point (°C)	_____	
Vapor Pressure (mm Hg @ 25°C)	_____			
pH (Avg)	_____	(Range)	_____ to _____	
Total Alkalinity/Acidity (%)	_____			
Odor	_____			
Color	_____			

HAZARDOUS PROPERTIES

[ ] NONE			
[ ] Water Reactive	[ ] Reactive	[ ] Explosive	
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Polymerizable	
[ ] Radioactive	[ ] Pesticide Residuals	[X] Ignitable	
[ ] Corrosive	[ ] Toxic Vapor	[ ] Putrescent	
[ ] 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, and 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 _____ GENERATOR'S SIGNATURE _____

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EASTERN CHEMICAL WASTE SYSTEMS

management of environmental preservation™

LAB PACK LIST **№ 7657**

page 1 of 1

GENERATOR: AMERICAN RED CROSS PACKER(S): JKO

MANIFEST #: _____ LINE #: _____ DATE PACKED: 10/17/89 DRUM #: _____

DOT SHIPPING NAME: WASTE ETHYLENIMINE DRUM EPA WASTE #: FC54

T/S/D/F: MSP DOT HAZARD CLASS: FLAMMABLE LIQUID

EPA WASTE # (PRINT NEATLY)	CHEMICAL NAME (PRESS HARD)	STATE S/L	UNIT SIZE	UNIT NUMBER
FC54	ETHYLENIMINE	L	100g T	1

WHITE: ACCOMPANIES MANIFEST TO T/S/D/F *GREEN:* OUTSIDE OF DRUM
YELLOW: GENERATOR KEEPS *PINK:* ACCOMPANIES PROFILE *GOLD:* ECWS KEEPS

MSD007

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EASTERN CHEMICAL WASTE SYSTEMS
management of environmental preservation™

TERN CHEMICAL WASTE SYSTEMS
A division of TECOL
1101 Pennsylvania Street NW
Suite 420
Washington D C 20004

WRITER'S TELEPHONE NUMBER

OPERATIONS PERSONNEL ONLY: 202-638-9555
CORPORATE OFFICE TOLL FREE: 800-554-9967

ELIZABETH NJ CUSTOMER SERVICE OFFICE: 201-352-6550
BALTIMORE MD CUSTOMER SERVICE OFFICE: 301-525-2500
NEW YORK NY CUSTOMER SERVICE OFFICE: 212-242-2348
CHICAGO IL CUSTOMER SERVICE OFFICE: 312-382-5133*

AFTER HOURS EMERGENCY 703-321-3237

CORPORATE OFFICE IN WASHINGTON DC 202-638-9400

REMEDIAL ACTION
SUPERFUND CLEAN-UPS
ENGINEERED CLEAN-UP PROPOSALS
HAZARDOUS & TOXIC WASTE DISPOSAL
INCINERATION • TREATMENT • RECYCLING
UNDERGROUND TANK STUDIES & REMOVAL
BIO-HAZARDOUS WASTE INCINERATION
SPECIAL TRANSPORTATION SERVICES
ANALYTICAL LABORATORY SERVICES
SITE DECONTAMINATION
ASBESTOS TREATMENT
TANK CLEAN-UP

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

RE: MSP Lap Pack Guidelines Certification

I am an authorized employee of Eastern Chemical Waste ystems. I hereby certify that the Lab Packs represented by this Material Characterization Data Sheet and Lab Pack packing lists are prepared and shipped in full compliance with the Marine Shale Processors, Inc., Lab Pack Guidelines.

Signature: Demetra G. Nelson Date Submitted: 11/21/88

Name: Demetra G. Nelson Title: QA Coordinator

MSD007

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

DAO

RECYCLE / REUSE

MANIFEST Nº 907133

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. C|0|1|1|5|0|0|9|0|0|4|0|0|0|1|4|8 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
Drug Enforcement Administration
721 19th Street
Denver, CO 80202

4. Generator's Phone (303) 844-3951

5. Transporter 1 Company Name
Denver & Rio Grande Railroad

6. US EPA ID Number C|O|D|0|0|6|9|1|5|3|5|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 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. Waste, Non-Regulated (Sodium Acetate)	0|0|2	D|F	0|0|2|0|0	P	Non-R Regulated
b. Waste, Sodium Metabisulfite, ORM-B, NA2693	0|0|1	D|F	0|0|1|1|0	P	Non-R Regulated
c. Waste, Ethyl Acetate, Flammable Liquid, UN1173	0|0|X	D|F	0|0|0|0|X 10	G	D001 F003
d. Waste,(Boric Acid) Poisonous Solid, Corrosive, NOS, Poison B, UN2928	0|0|1	D|F	0|0|0|2|5	P	Non-R Regulated

[illegible] Codes: a. D[illegible] b. D[illegible] c. D[illegible] d. D[illegible]

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	Signature	Month	Day	Year
Larry R. Smith	L.R.S.	10	16	19

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Craig Uriona	Craig Uriona	10	16	19

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
Dickey Crowell	Dickey Crowell	10	24	19

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DATA SHEETS

8903327

JUN 14 1989

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

SALES (504) 465-3310

MCDS Document # _____

MSP CODE: _____

Generator Name: Drug Enforcement Administration
Facility Address: 721 19th Street
City, State, Zip: Denver, CO 80202
Technical Contact: Mathew Taylor
Title: Special Agent
Telephone NO. (303) 844-3951 EXT: _____
Facility EPA ID #: CO1150090040

Bill To: E.T. Technologies, Inc.
Company Contact: Clellan Pearce
Container Size: 20 Gallon
EPA Waste No.: Non-Regulated
Generating Process: Drug Production
Common Name of Waste: Boric Acid
Rate of Generation: Variable (Quan) _____ (Units) PER Year (Time Interval)
Volume in Storage: 1 (Quan) 25 Lbs. (Units) IN 20 Gal. Fiber (Container Size and Type)
Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name: Poisonous Solid, Corrosive
Hazard Class: Poison B ID No.: UN2928
Transportation Equipment: Van/Rail
Placarding: Dangerous

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Boric Acid	%
Lab Grade Chemicals	25 %
Floor Dry	75 %

METALS (EP Toxicity Test, mg/1)

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/1 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/1 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		
Phenol(ics)	N/S		
PCBs	N/S		
Dioxin	N/S		
TOC	N/S		

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. %) 0
BTU/lb 3000 % Ash Content 90 % Water (by weight) 0
Flash Point (°F) None Type _____
Specific Gravity _____
Boiling Point, (°C) None Freezing Point, (°C) None
Vapor Pressure (mm Hg @ 24°C) None
pH (Avg) 5 (Range) 5 to Variable
Total Alkalinity/Acidity (%) N/A
Odor None
Color White (Clear Powder)

HAZARDOUS PROPERTIES

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

[X] Other Poison by Ingestion

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

Gloves
Eye protection, 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 6/12/89 GENERATOR'S SIGNATURE: _____

MSP FORM 1048 (REV. JUNE '87)

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DATA SHEETS

8903325

JUN 14 1989

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

SALES (504) 465-3310

MCDS Document # _____

MSP CODE: _____

Generator Name: Drug Enforcement Administration
Facility Address: 721 19th Street
City, State, Zip: Denver, CO 80202
Technical Contact: Mathew Taylor
Title: Special Agent
Telephone NO. (303) 844-3951 EXT: _____
Facility EPA ID #: CO1150090040

Bill To: E.T. Technologies, Inc.
Company Contact: Clellan Pearce
Container Size: 20 Gallon
EPA Waste No.: None
Generating Process: Drug Production
Common Name of Waste: Sodium Sulfate
Rate of Generation: Variable (Quan) (Units) PER Year (Time Interval)
Volume in Storage: 110 Lbs. (1) (Quan) (Units) IN 20 Gal. Fiber (Container Size and Type)
Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name: Sodium Metabiosulfate
Hazard Class: ORM-B ID No.: MA2693
Transportation Equipment: Van/Rail
Placarding: ORM-B

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Sodium Metabiosulfate	%
	%
	%
Lab Grade Chemical	50 %
Floor Dry	50 %
	%
	%

METALS (EP Toxicity Test, mg/1)

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/1 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/1 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		
Phenol(ics)	N/S		
PCBs	N/S		
Dioxin	N/S		
TOC	N/S		

PHYSICAL DESCRIPTION

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

Total Solids (wt.%): 100 Suspended Solids (wt. %): 0
BTU/lb: 2500 % Ash Content: 20+ % Water (by weight): _____
Flash Point (°F): None Type: _____
Specific Gravity: 1.1
Boiling Point, (°C): N/A Freezing Point, (°C): N/A
Vapor Pressure (mm Hg @ 24°C): N/A
pH (Avg): 7 (Range): 5 to 9
Total Alkalinity/Acidity (%): N/A
Odor: None
Color: White Powder

HAZARDOUS PROPERTIES

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

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

Gloves, eye protection, 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 6/12/89 GENERATOR'S SIGNATURE: _____

MSP FORM 1048 (REV. JUNE '87)

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MSD007

DATA SHEETS

JUN 1 6 1989

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

SALES (504) 465-3310

MCDS Document # _____ MSP CODE: 8903325

Generator Name: Drug Enforcement Administration
Facility Address: 721 19th Street
City, State, Zip: Denver, CO 80202
Technical Contact: Mathew Taylor
Title: Special Agent
Telephone NO. (303) 844-3951 EXT. _____
Facility EPA ID #: CO1150090040

Bill To: E.T. Technologies, Inc.
Company Contact: Clellan Pearce
Container Size: 20 Gallon
EPA Waste No.: None
Generating Process: Drug Production
Common Name of Waste: Sodium Sulfate
Rate of Generation: Variable (Quantity) (Units) PER Year (Time Interval)
Volume in Storage: 110 Lbs. (1) (Quantity) (Units) IN 20 Gal. Fiber (Container Size and Type)
Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name: Sodium Metabiosulfate
Hazard Class: ORM-B ID No: NA2693
Transportation Equipment: Van/Rail
Placarding: ORM-B

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Sodium Metabiosulfate (FATE NAT)	_____ %
_____	_____ %
Lab Grade Chemical	50 %
Floor Dry	50 %
_____	_____ %
_____	_____ %

METALS (EP Toxicity Test, mg/1)

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/1 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/1 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		
Phenol(ics)	N/S		
PCBs	N/S		
Dioxin	N/S		
TOC	N/S		

PHYSICAL DESCRIPTION

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

Total Solids (wt.%) 100 Suspended Solids (wt. %) 0
BTU/lb 2500 % Ash Content 20+ % Water (by weight) _____
Flash Point (°F) None Type _____
Specific Gravity 1.1
Boiling Point, (°C) N/A Freezing Point, (°C) N/A
Vapor Pressure (mm Hg @ 24°C) N/A
pH (Avg) 7 (Range) 5 to 9
Total Alkalinity/Acidity (%) N/A
Odor None
Color White Powder

HAZARDOUS PROPERTIES

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

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

Gloves, eye protection, 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 6/12/89 GENERATOR'S SIGNATURE: _____

MSP FORM 1949 (REV. JUNE 87)

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PI Hearing
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MSD007

DATA SHEETS JUN 14 1989

8903321

MCDS Document #

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

SALES (504) 465-3310

MSP CODE: _____

Generator Name: Drug Enforcement Administration
Facility Address: 721 19th Street
City, State, Zip: Denver, CO 80202
Technical Contact: Mathew Taylor
Title: Special Agent
Telephone NO. (303) 844-3951 EXT: _____
Facility EPA ID #: CO1150090040

Bill To: E.T. Technologies, Inc.
Company Contact: Clellan Pearce
Container Size: 20 Gallon
EPA Waste No.: Non-Regulated
Generating Process: Drug Production
Common Name of Waste: Sodium Acetate
Rate of Generation: Variable (Quan) PER Year (Time Interval)
Volume in Storage: 1 (Quan) 100 Lbs. (Units) IN 20 Gal. Fiber (Container Size and Type)
Is Waste DOT Hazardous | | YES |X| NO
Proper DOT Shipping Name: Non-Regulated
Hazard Class _____ ID No. _____
Transportation Equipment: Van/Rail
Placarding: None

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Sodium Acetate	%
Lab Grade Chemical	75 %
Floor Dry	25 %

METALS (EP Toxicity Test, mg/1)

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/1 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/1 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		
Phenol(ics)	N/S		
PCBs	N/S		
Dioxin	N/S		
TOC	N/S		

PHYSICAL DESCRIPTION

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

Total Solids (wt.%) 100 Suspended Solids (wt. %) 0
BTU/lb 6300 % Ash Content 90 % Water (by weight) 0
Flash Point (°F) None Type _____
Specific Gravity N/A
Boiling Point, (°C) None Freezing Point, (°C) None
Vapor Pressure (mm Hg @ 24°C) None
pH (Avg) 0.1 (Range) 1 to 8.9
Total Alkalinity/Acidity (%) N/A
Odor None
Color White Crystals

HAZARDOUS PROPERTIES

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

\| \| Other _____

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

Gloves, eye protection, 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 6/12/89 GENERATOR'S SIGNATURE: _____

MSP FORM 1040 (REV. JUNE '87)

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PI Hearing

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DATA SHEETS

JUN 14 1989

8903326

MCDS Document #

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

SALES (504) 465-3310

MSP CODE: _____

Generator Name: Drug Enforcement Administration
Facility Address: 721 19th Street
City, State, Zip: Denver, CO 80202
Technical Contact: Mathew Taylor
Title: Special Agent
Telephone NO. (303) 844-3951 EXT: _____
Facility EPA ID #: CO1150090040

Bill To: E.T. Technologies, Inc.
Company Contact: Clellan Pearce
Container Size: 20 Gallon
EPA Waste No.: U112
Generating Process: Drug Production
Common Name of Waste: Ethyl Acetate
Rate of Generation: Variable (Quan) PER Year (Time Interval)
Volume in Storage: ~~5 Gal~~ 2 (Quan) (Units) IN 20 Gal Fiber (Container Size and Type)
Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name: Ethyl Acetate
Hazard Class: Flammable Liquid ID No. UN1173
Transportation Equipment: Van/Rail
Placarding: Flammable Liquid

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Ethyl Acetate	%
	%
	%
Lab Grade Chemical	25 %
Floor Dry	75 %
	%
	%

METALS (EP Toxicity Test, mg/1)

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/1 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/1 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		
Phenol(ics)	N/S		
PCBs	N/S		
Dioxin	N/S		
TOC	N/S		

PHYSICAL DESCRIPTION

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

Total Solids (wt.%): 0 Suspended Solids (wt. %): 0
BTU/lb 13000 % Ash Content 75 % Water (by weight) 0
Flash Point (°F) 24°F Type Closed Cup
Specific Gravity N/A
Boiling Point, (°C) 77 Freezing Point, (°C) N/A
Vapor Pressure (mm Hg @ 24°C) 100MM
pH (Avg) Variable (Range) _____ to _____
Total Alkalinity/Acidity (%) N/A
Odor Pleasant
Color Clear

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:

Fire Protection

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 6/12/89 GENERATOR'S SIGNATURE: Matt E. Taylor

MSP FORM 1840 (REV. JUNE 87)

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DATA SHEETS

JUN 16 1989

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

SALES (504) 465-3310

MCDS Document # _____

MSP CODE: 8903326

Generator Name: Drug Enforcement Administration
Facility Address: 721 19th Street
City, State, Zip: Denver, CO 80202
Technical Contact: Mathew Taylor
Title: Special Agent
Telephone NO. (303) 844-3951 EXT. _____
Facility EPA ID #: CO1150090040

Bill To: E.T. Technologies, Inc.
Company Contact: Clellan Pearce
Container Size: 20 Gallon
EPA Waste No.: U112
Generating Process: Drug Production
Common Name of Waste: Ethyl Acetate
Rate of Generation: Variable (Quan.) (Units) PER Year (Time Interval)
Volume in Storage: ~~5 Gal.~~ 2 (Quan.) (Units) IN 20 Gal. Fiber (Container Size and Type)
Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name: Flammable Ethyl Acetate
Hazard Class: Liquid ID No.: UN1173
Transportation Equipment: Van/Rail
Placarding: Flammable Liquid

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Ethyl Acetate	%
	%
	%
Lab Grade Chemical	25 %
* Floor Dry	75 %
* To Fill Void	%
	%

METALS (EP Toxicity Test, mg/1)

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/1 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/1 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		
Phenol(ics)	N/S		
PCBs	N/S		
Dioxin	N/S		
TOC	N/S		

PHYSICAL DESCRIPTION

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

Total Solids (wt.%) 0 Suspended Solids (wt. %) 0
BTU/lb ~~13000~~ 3000 % Ash Content 75 % Water (by weight) 0
Flash Point (F) 24°F Type Closed Cup
Specific Gravity N/A
Boiling Point, (°C) 77 Freezing Point, (°C) N/A
Vapor Pressure (mm Hg @ 24°C) 100MM
pH (Avg) Variable (Range) _____ to _____
Total Alkalinity/Acidity (%) N/A
Odor Pleasant
Color Clear

HAZARDOUS PROPERTIES

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

[ ] Other _____

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

Fire Protection

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 6/12/89 GENERATOR'S SIGNATURE: Mathew E. Taylor 6-15-89

MSP FORM 1049 (REV. JUNE '87)

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MSD007

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PI Hearing



E.T. Technologies, Inc.

waste management & recovery

June 15, 1989

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

Dear Liz:

Enclosed is MCDS (Sodium Metabiosulfite-MSP Code 8903325) and MCDS (Ethyl Acetate-MSP Code 8903326) with the corrections made which were discussed with you yesterday. Please note that on MSP Code 8903325 the DOT Number was typed incorrectly as MA2693 and has been changed to NA2693.

Liz, hard copies of these MCDS's will be mailed to you tonight along with some additional Lab Pack Inventory Sheets for your review and approval. If you have any questions please give a call. Thank you for your assistance.

Respectfully,
E.T. Technologies, Inc.

Kathy Hilliard

Kathy Hilliard
Administrative Assistant

Enclosures

15200 E. GIRARD AVE. □ #4100 □ AURORA, CO 80014 □ 303 680-9414

MSD007

DATA SHEETS

JUN 23 1989

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

SALES (504) 465-3310

MCDS Document #

MSP CODE: 890-33-

Generator Name: Drug Enforcement Administration
Facility Address: 721 19th Street
City, State, Zip: Denver, CO 80202
Technical Contact: Mathew Taylor
Title: Special Agent
Telephone No.: (303) 844-3951 EXT
Facility EPA ID #: CO1150090040

Bill To: E.T. Technologies, Inc.
Company Contact: Clellan Pearce
Container Size: 20 Gallon
EPA Waste No.: U112
Generating Process: Drug Production
Common Name of Waste: Ethyl Acetate
Rate of Generation: Variable (Units) PER: Year (Time Interval)
Volume in Storage: <1 Cu. Yd. (Units) IN: 20 Gal. Fiber (Container Size and Type)

Is Waste DOT Hazardous: [X] YES [ ] NO
Proper DOT Shipping Name: Flammable Liquid, n.o.s. (Ethyl Acetate)
Hazard Class: Liquid ID No.: UN1173
Transportation Equipment: Van/Rail
Placarding: Flammable Liquid

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Ethyl Acetate	%
	%
	%
Lab Grade Chemical	25 %
≠ Floor Dry	75 %
≠ To Fill Void	%
	%

METALS (EP Toxicity Test, mg/l)

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		
Phenol(ics)	N/S		
PCBs	N/S		
Dioxin	N/S		
TOC	N/S		

PHYSICAL DESCRIPTION

Physical State: [ ] Liquid [ ] Semi-solid [X] Solid
Phases Layering: [ ] Uni-Layer [ ] Bilayer [X] Multila
Viscosity: [ ] High [ ] Medium [ ] Low
Type of Solids: [ ] Organic [ ] Inorganic [ ] Mixed
Total Solids (wt. %): 0 Suspended Solids (wt. %): 0
BTU/lb ~~13000~~ % Ash Content: 75 % Water (by weight): 0
Flash Point: ~~32°F~~ 24°F Type: Closed Cup
Specific Gravity: N/A
Boiling Point, (°C): 77 Freezing Point, (°C): N/A
Vapor Pressure (mm Hg @ 24°C): 100MM
pH (Avg): Variable (Range): to
Total Alkalinity/Acidity (%): N/A
Odor: Pleasant
Color: Clear

HAZARDOUS PROPERTIES

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

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

Fire Protection

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 determined, 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 6/12/89 GENERATOR'S SIGNATURE: Mathew E. Taylor

MSP REMOVAL TABLE (REV. JUNE 87)

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E.T. Technologies, Inc.

waste management & recovery

June 22, 1989

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

Dear Liz:

Enclosed are the two MCDS's for the DEA and Samsonite with the changes you discussed with me yesterday. On the MCDS which corresponds with MSP Code ETE/DRG/8903326, both Liquid and Solid have been checked and the BTU value has been increased to 13,000. On the MCDS for Samsonite, the percentages of Chemical Composition have been broken out as you requested. I am also submitting two additional MCDS's (Toluene and Carbon Tetrachloride) for approval.

If you have any questions please call. Thank you.

Respectfully,
E.T. Technologies, Inc.

Kathy Hilliard

Kathy Hilliard
Administrative Assistant

cp

15200 E. GIRARD AVE. □ #4100 □ AURORA, CO 80014 □ 303 680-9414

P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

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

MANIFEST No. 91097

UNIFORM HAZARDOUS WASTE MANIFEST

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

1. Generator's US EPA ID No. C A D 9 6 0 6 9 4 5 7 5 — 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
V.A. Hospital
5901 E. 7th St., Long Beach, CA 90822

4. Generator's Phone (213) 494-5464

5. Transporter 1 Company Name
Sun Environmental Services

6. US EPA ID Number C A D 9 8 2 4 6 7 8 2 1

7. Transporter 2 Company Name
Odessy Transport

8. US EPA ID Number C A D 0 8 7 2 1 0 0 1 9

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	
a. Waste ORM-A, N.O.S. ORM-A NA 1693 (RQ=1000 lbs)	0 0 1	D F	0 0 0 1 5	Gal	U22
b. Waste Flammable Liquid, N.O.S. Flammable UN 1993 (RQ=100 lbs)	0 0 1	D F	0 0 0 1 5	Gal	D001
c. Hazardous Waste Solid or Liquid, N.O.S. ORM-E NA 9189 (RQ=1000 lbs)	0 0 1	D F	0 0 0 5	Gal	D001
d. Waste Flammable Solid, N.O.S. Flammable UN 1325 (RQ=100 lbs)	0 0 1	D F	0 0 0 1 5	Gal	D001

GENERATOR

12. Additional Descriptions for Materials Listed Above
a. See attachment #1 (15 gal)
b. See Attachment #2 (5 gal)
c. See Attachment #3 (15 gal)
d. See Attachment #4 (5 gal)

RECYCLE/REUSE SUNE/VAH/8908-2A-LP

K. Handling Codes for Wastes Listed Above
01

15. Special Handling Instructions and Additional Information
Wear goggles and gloves.
Emergency Response Guide # a) 58, b) 27, c) 31, d) 32

IF UNABLE TO DELIVER, RETURN TO GENERATOR

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.
If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: John McCarthy — Signature: [signature] — Month Day Year: 10 30 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: LEROY O. OAKLEY — Signature: [signature] — Month Day Year: 10 30 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: BRAD LUSK — Signature: Brian Lusk — Month Day Year: 10 30 89

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Gail Leonard — Signature: [signature] — Month Day Year: 10 30 89

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 (R 9-88)

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US v MSP
Rec'd from MSP
Vol 12 Exb 253 Page US MANIFESTS
Cont.

Releasable
PI Hearing

MSD007

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8903524

MCDS Document #

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

P.O. BOX 1698 • KENNER, LA 70063

SALES (504) 465-3310

JUN 23 1989

MSP CODE: _____

Generator Name: V.A. Hospital
Facility Address: 5901 E. 7th Street
City, State, Zip: Long Beach, CA 90822
Technical Contact: Jenny Gonzales
Title: Safety Specialist
Telephone NO. (213) 494-5464 EXT 3764
Facility EPA ID #: CAD 960 694 575

Bill To: Sun Environmental Services
Address: P.O. Box 3444
City, State Zip: Gardena, CA 90247-7144
Telephone #: (213) 719-7111
Company Contact: Mr. Steve Nu
Container Size: Lab Packs
EPA Waste No: See Attachments
Generating Process: Site Clean up
Common Name of Waste: See Attachments
Rate of Generation: 4 (Quan) 15 gal (Unit) PER once (Time Interval)
Volume in Storage: 4 (Quan) 15 gal (Unit) IN _____ (Container Size and Type)

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

See Lab Pack	%
	%
	%
See Attachments	%
	%
	%
	%

METALS (EP Toxicity Test, mg/l)

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

INORGANICS (mg/l or ppm)

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

ORGANICS (mg/l or ppm)

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

Is Waste DOT Hazardous [X] YES [ ] NO
Proper DOT Shipping Name: See Attachemnts
Hazard Class: See Attachments ID No.: See Attachments
Transportation Equipment: Trucking
Placarding: If applicable

PHYSICAL DESCRIPTION

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

Total Solids wt %: _____ Suspended Solids wt %: _____
BTU lb _____ % Ash Content _____ % Water (by weight) _____
Flash Point (°F): _____ Type: _____
Specific Gravity: _____
Boiling Point, (°C): _____ Freezing Point, (°C): _____
Vapor Pressure (mm Hg @ 24°C): _____
pH (Avg) _____ (Range) _____ to _____
Total Alkalinity Acidity (%): _____
Odor: Various Chemical
Color: Various

HAZARDOUS PROPERTIES

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

[XX] Other ORM-A

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

Wear goggles and gloves

Various Emergency Response Guide #'s

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 6/21/89 GENERATOR'S SIGNATURE: for JENNY GONZALES

MSP FORM 1048 (REV. FEB 88)

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MANIFESTS

MSD007

ATTACHMENT FOR V.A. HOSPITAL

D.O.T. 21C 15 DF GALLON

SHIPPING NAME: WASTE ORM-A, N.O.S. NA1693

INVENTORY LIST #: 1

ITEM #	'S' or 'L'	CONTAINER	QTY/SIZE	UN/NA NO.	EPA WASTE CODE NO.
1 ABSORBENTS LIKE TOWELS	S	PLASTIC BAG	2/ 10LBS	UN1198	U122
2 VERMICULITE CONTAMINATED					
3 WITH FORMALDEHYDE					
4					
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LIS MANIFESTS

MSD007

ATTACHMENT FOR U. A. HOSPITAL

D.O.T. 21C 5 DF GALLON

SHIPPING NAME: WASTE FLAMMABLE LIQUID, N.O.S. UN1993

INVENTORY LIST #: 2

ITEM #	'S' or 'L'	CONTAINER	QTY/SIZE	UN/NA NO.	EPA WASTE CODE NO.
1 LARC STAIN	L	POLY	3/80Z	UN1230	D001
2 (CONTAINS METHANOL)					
3					
4 CRUSHED METAL CANS	S	METAL	3/1LB	NA1270	D001
5 LAST CONTAINING OIL					
6					
7					
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MSD007

ATTACHMENT FOR V. A. HOSPITAL

D.O.T. 21C 15 DF GALLON

SHIPPING NAME: HAZARDOUS WASTE SOLID OR LIQUID, N.O.S. NA 9189

INVENTORY LIST #: 3

ITEM #	'S' or 'L'	CONTAINER	QTY/SIZE	UN/NA NO.	EPA WASTE CODE NO.
1 HYDROQUINONE POWDER	S	FIBER	3/2 LBS	NA 9189	N/A
2 STERILE IRRIGATION WASH	L	POLY	6/1QT	NA 9189	N/A
3					
4					
5					
6					
7					
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ATTACHMENT FOR V. A. HOSPITAL

D.O.T. 21C 5 DF GALLON

SHIPPING NAME: WASTE FLAMMABLE SOLID, N.O.S. UN 1325

INVENTORY LIST #: 4

ITEM #		'S' or 'L'	CONTAINER	QTY/SIZE	UN/NA NO.	EPA WASTE CODE NO.
1	PICRIC ACID	S/L	GLASS	1 | 8OZ	NA1344	D001
2	PICRIC ACID	S/L	PLASTIC	1 | 1/2LB	NA1344	D001
3						
4						
5						
6						
7						
8						
9						
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MSD007

VA Hospital
5901 E. 7th St
Long Beach CA 90822
CAD 960 694 575

SUN ENVIRONMENTAL SERVICES

CERTIFICATION LETTER

I am an authorized employee of Sun Environmental Services. I hereby certify that the Lab Packs represented by this Materials Characterization Data Sheet and lab packing lists are prepared and shipped in full compliance with the Marine Shale Processors, Incorporated's Lab Pack Guideline.

DATED: 06/21/89

SIGNED: Steve Nu

P.O.Box 3444 Gardena, CA 90247-7144 (213) 719-7111

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JUN 28 1989

MARINE SHALE PROCESSORS, INC.

KEY: 8903524

MATERIALS CHARACTERIZATION DATA SHEET

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

MCDS Document # _____

MSP CODE: _____

Generator Name: V.A. Hospital
Facility Address: 5901 E. 7th Street
City, State, Zip: Long Beach, CA 90822
Technical Contact: John J. McCarthy
Title: Safety Specialist
Telephone NO: (213) 494-5464 EXT 3764
Facility EPA ID #: CAD 960 694 575

Bill To: Sun Environmental Services
Address: P.O. Box 3444
City, State, Zip: Gardena, CA 90247-7144
Telephone #: (213) 719-7111
Company Contact: Mr. Steve Nu
Container Size: Lab Packs
EPA Waste No: See Attachments
Generating Process: Site Clean up
Common Name of Waste: See Attachments
Rate of Generation: 4 (Quan.) 15 gal (Unit) per once (Time Interval)
Volume in Storage: 4 (Quan.) 15 gal (Unit) IN _____ (Number and Type)

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

See Lab Pack	%
	%
See Attachments	%
	%
	%
	%

Is Waste DOT Hazardous: [X] YES [ ] NO
Proper DOT Shipping Name: See Attachemnts
Hazard Class: See Attachments ID No: See Attachments
Transportation Equipment: Trucking
Placarding: If applicable

METALS (EP Toxicity Test, mg/l)

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

INORGANICS (mg/l or ppm)

Total CN	Ø	Iodine	Ø
Free CN	Ø	Asbestos	Ø
Sulfide	Ø	Ø	Ø
Chloride	Ø	Ø	Ø
Bromide	Ø	Ø	Ø
Sulfite	Ø	Ø	Ø
Sulfate	Ø	Ø	Ø
Phosphate	Ø	Ø	Ø
Fluorine	Ø	Ø	Ø
Bromine	Ø	Ø	Ø
Chlorine	Ø	Ø	Ø

ORGANICS (mg/l or ppm)

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

PHYSICAL DESCRIPTION

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

Total Solids wt %: _____ Suspended Solids wt %: _____
BTU/lb _____ % Ash Content _____ % Water by weight _____
Flash Point (°F) _____ Type _____
Specific Gravity _____
Boiling Point, (°C) _____ Freezing Point, (°C) _____
Vapor Pressure (mm Hg @ 24°C) _____
pH (Avg) _____ (Range) _____ to _____
Total Alkalinity Acidity (%) _____
Odor: Various Chemical
Color: Various

HAZARDOUS PROPERTIES

[ ] Water Reactive	[ ] Reactive	[ ] NONE	
[ ] Shock Sensitive	[ ] Peroxidizer	[ ] Explosive	
[ ] Radioactive	[ ] Pesticide Residuals	[XX] Ignitable	
[ ] Corrosive	[ ] Toxic Vapor	[ ] Pathogenic	
[ ] Biological	[ ] Etiological		

[XX] Other: ORM-A

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

Wear goggles and gloves

Various Emergency Response Guide #'s

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 6/26/89 GENERATOR'S SIGNATURE: _____

SEE FOLLOWING PAGES FOR MSDS

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JUN28 1989

ATTACHMENT FOR V.A. HOSPITAL

Ref: 8903524

D.O.T. 21C 5 DF GALLON

SHIPPING NAME: WASTE FLAMMABLE SOLID, N.O.S. UN1325

INVENTORY LIST #: 4

ITEM #		'S' or 'L'	CONTAINER	QTY/SIZE	UN/NA NO.	EPA WASTE CODE NO.
1	PICRIC ACID	S/L	GLASS	1/ 8oz	NA1344	D001
2	PICRIC ACID	S/L	PLASTIC	1/ 1/2 LB	NA1344	D001
3						
4						
5	PICRIC ACID STORED					
6	IN AT LEAST 50% WATER					
7						
8						
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STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307
BATON ROUGE, LOUISIANA 70804

RECYCLE / REUSE

MANIFEST Nº 911954

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. CA3360007295 — 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
Veterans Administration Medical Center
4951 Arroyo Road
Livermore, CA 94550

4. Generator's Phone (415) 447-2560

5. Transporter 1 Company Name: North State Environmental
6. US EPA ID Number: CAD009623738

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: LAD981057076
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	Waste No.
a. Waste Poison B Solid NOS, Poison B, UN2811 Drum 1	1	D	6	P	D030 R
b. Waste Phenol, Poison B, UN1671 Drum 2	1	D	6	P	U188 R
c. Waste Magnesium Metal, Flammable Solid, UN1869 Drum 3	1	D	6	P	D003 R
d. Waste Sodium Azide, Posion B, UN1687 Drum 4	1	D	6	P	P105 R

J. Additional Descriptions for Materials Listed Above — RECYCLE/REUSE
All drums are 55 gallon lab pack drums
See attached lists for drum contents
MSB approval code: NSTE/VEMC/890328/RP

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

Use gloves, goggles, and respirator if drums are opened.

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
ARMANDO Montez	A Montez	10 9 2 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year
Rew Cheshire		10 9 10 7 89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month Day Year

19. Discrepancy Indication Space

FACILITY

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

Printed/Typed Name	Signature	Month Day Year
Dick S Crockett	Dick S Crockett	09 11 5 89

EPA Form 8700-22 (Rev. 9-88) WHITE – DEQ/GREEN – Generator YELLOW – TSDF BLUE – Transporter 2 PINK – Transporter 1 GOLD – Generator PREVIOUS EDITIONS ARE OBSOLETE

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MSD007

MATERIALS CHARACTERIZATION DATA SHEET

MCDS Document # _____

JUN 14 1989

SALES (504) 465-3310

MSP CODE: _____

8903328 VETERANS ADMINISTRATION

Generator Name MEDICAL CENTER

Facility Address 4951 ARROYO ROAD

City, State, Zip LIVERMORE, CA. 94550

Technical Contact ARMANDO MONTEZ

Title FIRE CHIEF

Telephone NO. (415) 447-2560 EXT: 6188

Facility EPA ID # CA3360007295

#2 CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

SEE ATTACHED SHEETS	%
	%
	%
	%
	%
	%
	%

#3 METALS (EP Toxicity Test, mg/l) SEE ATTACHED SHEETS

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

#4 INORGANICS (mg/l or ppm) SEE ATTACHED SHEETS

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

#5 ORGANICS (mg/l or ppm) SEE ATTACHED SHEETS

Endrin		Organohalide	
Methoxychlor		Mercaptans	
Toxaphene			
2,4-D			
2,4,5-T			
Phenolics)			
PCBs			
Dioxin			
C			

#6 Bill To: NORTH STATE ENVIRONMENTAL

Company Contact: KURT DREGER

Container Size: SEE ATTACHED SHEETS

EPA Waste No. SEE ATTACHED SHEETS

Generating Process DISPOSAL OF OBSOLETE CHEMICALS

Common Name of Waste LAB PACKS

Rate of Generation ONE TIME (Amount) PER ONLY (Time unit)

Volume in Storage 4 LAB PACKS (Amount) IN 5 GAL Poly Bucks (Container Size and Type)

Is Waste DOT Hazardous . [X] YES [ ] NO

Proper DOT Shipping Name SEE ATTACHED

Hazard Class _____ ID No. SHEETS

Transportation Equipment TRACTOR AND TRAILER

Placarding AS REQUIRED

#7 PHYSICAL DESCRIPTION

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

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

BTU/lb _____ % Ash Content _____ % Water (by weight) _____

Flash Point (°F) _____ Type _____

Specific Gravity —

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

Vapor Pressure (mm Hg @ 24°C) —

pH (Avg) _____ (Range) _____ to _____

Total Alkalinity/Acidity (%) —

Odor SEE ATTACHED SHEETS

Color _____

#8 HAZARDOUS PROPERTIES

[ ] Water Reactive	[ ] Reactive	[ ] NONE
[ ] Shock Sensitive	[ ] Pyrophoric	[ ] Explosive
[ ] Radioactive	[ ] Pesticide Residuals	[ ] Polymerizable
[ ] Corrosive	[ ] Toxic Vapor	[ ] Ignitable
[ ] Biological	[ ] Etiological	[ ] Pathogen
[ ] Other SEE ATTACHED SHEETS		

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

NORMAL SAFETY 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 6-12-89 GENERATOR'S SIGNATURE: A C Montez

MSP FORM 1010 (REV. JUNE 87)

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US v MSP
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Vol 18 Exh 253 Marked U.S. Hearing
Cont.

Released as Feasable PI

MSD007

8 8 8

GENERATOR NAME: Veterans Administration Medical Center DATE: 6/8/89

GENERATOR LOCATION: 4951 Arroyo Road Livermore, CA 94550 GENERATOR EPA ID:CA3360007295

LAB PACK CONTAINER NO: 1 PAGE 1 OF 4

DOT DESCRIPTION: Waste Poison B Solid NOS UN/NA NO: UN2811
(Circle One)

CONTAINER SIZE: 5 gal (30 Gal. or less) CONTAINER TYPE: Poly (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO
01	potassium nitroferricyanide	1	1 lb	Poison B	UN2811	P030
02	potassium nitroferricyanide	2	1 oz	Poison B	UN2811	P030
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						

I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Kurt Dreger
SIGNATURE

2. 6/8/89
DATE

3. Kurt Walter Dreger
NAME (Type or Print)

4. Operations Chemist
TITLE

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US v MSP Rec'd from MSP Releasable PI Hearing Vol. 12 Exh. 243 Page US MANIFESTS Cont.

MSD007

GENERATOR NAME: Veterans Administration Medical Center DATE: 6/8/89

GENERATOR LOCATION: 4951 Arroyo Road Livermore, CA 94550 GENERATOR EPA ID: CA3360007295

LAB PACK CONTAINER NO: 2 PAGE 2 OF 4

DOT DESCRIPTION: Waste Phenol, Poison B UN/NA NO: UN1671 (Circle One)

CONTAINER SIZE: 5 gal (30 Gal. or less) CONTAINER TYPE: Poly (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO
01	phenol	1	1/2 lb	Poison B	UN1671	U188
02						
03						
04						
05						
06						
07						
8						
09						
10						
11						
12						
13						
14						
15						
16						

I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Kurt Dreger
   SIGNATURE

2. 6/8/89
   DATE

3. Kurt Walter Dreger
   NAME (Type or Print)

4. Operations Chemist
   TITLE

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US v MSP Rec'd from MSP Vol 18 Exh 253 Marine Shale Mfg Co.

Releasable PI Hearing

MSD007

GENERATOR NAME: Veterans Administration Medical Center DATE: 6/8/89

GENERATOR LOCATION: 4951 Arroyo Road Livermore, CA 94550 GENERATOR EPA ID: CA3360007295

LAB PACK CONTAINER NO: 3 PAGE 3 OF 4

DOT DESCRIPTION: Waste Magnesium Metal, Flammable Solid UN/NA NO: UN1869 (Circle One)

CONTAINER SIZE: 5 gal (30 Gal. or less) CONTAINER TYPE: Poly (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO
01	magnesium metal	1	1/3 lb	Flammable Solid	UN1869	D003
02						
03						
04						
05						
06						
07						
3						
09						
10						
11						
12						
13						
14						
15						
16						

I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Kurt F Dreger
SIGNATURE

2. 6/8/89
DATE

3. Kurt Walter Dreger
NAME (Type or Print)

4. Operations Chemist
TITLE

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Vol 18 Exh 253 Mace LS MANIFESTS
Cont.

MSD007

GENERATOR NAME: Veterans Administration Medical Center DATE: 6/8/89

GENERATOR LOCATION: 4951 Arroyo Road Livermore, CA 94550 GENERATOR EPA ID: CA3360007295

AB PACK CONTAINER NO: 4 PAGE 4 OF 4

DOT DESCRIPTION: Waste Sodium Azide, Poison B UN/NA NO: UN1687 (Circle One)

CONTAINER SIZE: 5 gal (30 Gal. or less) CONTAINER TYPE: Poly (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/ NA	EPA NO
01	sodium azide	1	50g	Poison B	UN1687	P105
02						
03						
04						
05						
06						
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						

I AM AN AUTHORIZED EMPLOYEE OF NORTH STATE ENVIRONMENTAL. I HEREBY CERTIFY THAT THE LAB PACK REPRESENTED BY THIS MATERIAL CHARACTERIZATION DATA SHEET AND LAB PACKING LIST IS PREPARED AND SHIPPED IN FULL COMPLIANCE WITH THE MARINE SHALE PROCESSORS, INC. LAB PACK GUIDELINES.

1. Kurt Dreger
SIGNATURE

2. 6/8/89
DATE

3. Kurt Walter Dreger
NAME (Type or Print)

4. Operations Chemist
TITLE

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US v MSP Rec'd from MSP Releasable PI Hearing
Vol 18 Exh 263 Page 1 of 1 U.S. MANIFESTS
Cont.

MSD007

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

RECYCLE / REUSE

MANIFEST No. 918100

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. [redacted] Manifest Document No. [redacted]

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

GENERATOR

3. Generator's Name and Mailing Address
U.S. Department of Agriculture
1636 Alisal Street
Salinas, CA 93905

4. Generator's Phone (408) 755-2815

A. State Manifest Document Number [redacted]

B. State Generator's ID EXEMPT

5. Transporter 1 Company Name: North State Environmental

6. US EPA ID Number

C. State Transporter's ID 003178

D. Transporter's Phone (415)589-2838

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 [redacted]

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, Poisonous, N.O.S., Flammable Liquid, UN1992 Drum 1	1	D	180	P	NRM R P070/P11
b. Waste Flammable Liquid N.O.S., Flammable Liquid, UN1993 Drum 2	1	D	12	P	D001 R U002
c. Waste Chloroform Mixture, ORM-A, UN1888 Drum 3	1	D	10	P	U044 R U122
					R

J. Additional Descriptions for Materials Listed Above — RECYCLE / REUSE
Lab pack drums. See attached list for contents.
Addl'l waste codes, Drum 1: 1x30gal, P085,P066,U036,U185, U166,P075,U007,D001. Drums 2&3: 2x5gal drums.
MSP approval code NSTE/UDAG/89053I6/LP.

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
Use glove, goggles and respirator if drums are opened.

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 B. GUERNSEY — Signature: David B. Guernsey — Month Day Year: 1/1/07/89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: LINDA B. McCORMICK — Signature: Linda B. McCormick — Month Day Year: 1/1/07/89

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: Dicky S. Crowell — Signature: Dicky S. Crowell — Month Day Year: 1/1/16/89

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

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US v MSP
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Vol 18 Exb 253 Date US MANIFESTS
Cont.

Releasable
PI Hearing

MSD007

MATERIALS CHARACTERIZATION DATA SHEET

MDS Document #: 89115316 OCT 10 1989

SALES (504) 465-3310

MSP CODE: _____

1 Generator Name: U.S. Department of Agriculture
Address: 1636 Alisal Street
City, State, Zip: Salinas CA 93905
Technical Contact: David B. Guernsey
Title: _____
Telephone NO.: 408 755-2815 EXT: _____
Facility EPA ID #: CAD 98-200-5431

16 Bill To: North State Environmental
Company Contact: Earl Harris
Container Size: 5gal poly and 30gal Fibers
EPA Waste No.: SEE ATTACHED LIST
Generating Process: disposal of obsolete chemicals
Common Name of Waste: Lab Packs
Rate of Generation: One (Quant) time (Quant) PER only (Time Interval)
Volume in Storage: 3 (Quant) Lab packs (Units) IN 5 1/3 30gal DOT containe (Number Size and Type)
Is Waste DOT Hazardous: | | YES | | NO
Proper DOT Shipping Name: SEE ATTACHED SHEETS
Hazard Class: _____ ID No.: _____
Transportation Equipment: tractor and trailer
Placarding: as required

2 CHEMICAL COMPOSITION (No Trade Name)
(Totals must add up to 100%)

SEE ATTACHED SHEETS	%
	%
	%
	%
	%
	%
	%

17 PHYSICAL DESCRIPTION SEE ATTACHED SHEETS

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

Total Solids (wt. %): _____ Suspended Solids (wt. %): _____
BTU/lb _____ % Ash Content _____ % Water (by weight) _____
Flash Point (°F): _____ Type _____
Specific Gravity _____
Boiling Point, (°C) _____ Freezing Point, (°C) _____
Vapor Pressure (mm Hg @ 24°C) _____
pH (Avg) _____ (Range) _____ to _____
Total Alkalinity/Acidity (%) _____
Odor: SEE ATTACHED SHEETS
Color _____

13 METALS (EP Toxicity Test, mg/l)

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

14 INORGANICS (mg/l or ppm)

Total CN		Iodine	
Free CN		Asbestos	
Sulfide	SEE ATTACHED SHEETS		
Chloride			
Bisulfite			
Sulfite			
Sulfate			
Phosphate			
Fluorine			
Bromine			
Chlorine			

18 HAZARDOUS PROPERTIES

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

|X| Other: SEE ATTACHED SHEETS

15 ORGANICS (mg/l or ppm)

Endrin		Organohalide	
Methoxychlor		Mercaptans	
Toxaphene	SEE ATTACHED SHEETS		
2,4-D			
2,4,5-T			
Phenolics			
[illegible]			
[illegible]			
TOC			

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:
Normal safety precautions and equipment

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 OCT 4 1989 GENERATOR'S SIGNATURE: David B. Guernsey

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US v MSP
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Vol 18 Exb 253 Mace US Manifests
Cont.

Releasable
PI Hearing

MSD007

GENERATOR NAME: U.S. Department of Agriculture DATE: 10-02-89

GENERATOR LOCATION: 1636 Alisal Street Salinas, CA 93905 GENERATOR EPA ID: CAD 98-200-5431

LAB PACK CONTAINER NO: 1 PAGE 1a OF 3

DOT DESCRIPTION: Waste Flammable Liquid, Poisonous, NOS UN/NA NO: UN1992
Flammable Liquid (Circle One)

CONTAINER SIZE: 30gal (30 Gal. or less) CONTAINER TYPE: fiber (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	trithion 4 emulsive	1	empty 1gal can			NRM
02	Omite (propargite)	1	1pt			NRM
03	Omite (propargite)	1	1qt			NRM
04	Omite (propargite)	1	.25lb			NRM
05	Pentac (dienchlor)	1	.5lb			NRM
06	Metasystox (methyl dementon)	1	.5lb			NRM
07	Temik (aldicarb)	1	6lb	Poison B	UN2811	P070
08	Pentax	1	1pt			NRM
09	tetraethyl pyrophosphate	1	1qt	Poison B	UN2811	P111
10	OMPA (Schradan)	1	1pt	Poison B	UN2811	P085
11	OMPA (Schradan)	1	1gal	Poison B	UN2811	P085
12	Lannate (methomyl)	1	1gal	Poison B	UN2811	P066
13	Dexol Granules	1	1.25lb	Poison B	UN2811	NRM
14	Chlorodane	1	.25lg	Poison B	UN2811	U036
15	Vitavax (carboxin)	1	1lb			NRM
16	Dithane A-40	1	8oz			NRM

I am an authorized employee of North State Environmental. I hereby certify that the lab pack represented by this material characterization data sheet and lab packing list is prepared and shipped in full compliance with the Marine Shale Processors, Inc. lab pack guidelines.

1. Robin Eastman
SIGNATURE

2. 10-02-89
DATE

3. Robin Eastman
NAME (Type or Print)

4. Operations Chemist
TITLE

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US v MSP
Rec'd from MSP
Vol. 18 Exh. 253 Page 1 of 3
Cont.

Releasable
PI Hearing
U.S. MANIFESTS

MSD007

Y 1 95 110 0 0 1 1 80 2 1 1 0 35 5

'ERATOR NAME: U.S. Department of Agriculture DATE: 10-02-89

GENERATOR LOCATION: 1636 Alisal Street GENERATOR EPA ID: CAD 98-200-5431
Salinas, CA 93905

LAB PACK CONTAINER NO: 1 PAGE 1b OF 3

DOT DESCRIPTION: Waste Flammable Liquid, Poisonous, NOS UN/NA NO: UN1992
Flammable Liquid (Circle One)

CONTAINER SIZE: 30gal CONTAINER TYPE: Fiber
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	50% dithane-50% PCNB	1	200g	poison B	UN2811	U185
02	Benlate	1	.25lb			NRM
03	Benomyl	1	2g			NRM
04	Phygon (dichlone)	1	4oz	Poison B	UN2811	U166
05	Nicotine sulfate	1	300ml	Poison B	UN2811	P075
06	Acrylamide liquid	1	500ml	Poison B	UN2811	U007
	Acrylamid contaminated gloves, pipettes	1	24''x30''bag	Poison B	UN2811	U007
08	Phycol (Phygon, dichlone)	1	1lb	Poison B	UN2811	U166
09	Petroleum ether	2	1L	Flammable	UN1271	D001
10	2-methoxyethanol	1	1L	Flammable	UN1993	D001
11	xylene	1	250ml	Flammable	UN1307	D001
12						
13						
14						
15						
16						

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1. Robin Eastman
SIGNATURE

2. 10-02-89
DATE

3. Robin Eastman

4. Operations Chemist

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Releasable
PI Hearing
Vol 12 Exb 263 Date 1/5/93
Cont.
MANIFESTS

MSD007

0 0 7 8

NAME (Type or Print) TITLE
GENERATOR NAME: U.S. Department of Agriculture DATE: 10-02-89

GENERATOR LOCATION: 1636 Alisal Street GENERATOR EPA ID: CAD 98-200-5431
Salinas, CA 93905

LAB PACK CONTAINER NO: 2 PAGE 2 OF 3

DOT DESCRIPTION: Waste Flammable Liquid NOS, Flammable, UN/NA NO: UN1993
(Circle One)

CONTAINER SIZE: 5gal CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Acetone/propylene oxide	1	2.5L	Flam.Liq.	UN1993	D001/ U002
02						
03						
04						
05						
06						
07						
09						
10						
11						
12						
13						
14						
15						
16						

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1. Robin Eastman (SIGNATURE) 2. 10-02-89 (DATE)

3. Robin Eastman 4. Operations Chemist

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US v MSP Released
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Vol 18 Exh 263 Marine Shale MANIFESTS
Cont.

MSD007

NAME (Type or Print) TITLE

GENERATOR NAME: U.S. Department of Agriculture DATE: 10-02-89

GENERATOR LOCATION: 1636 Alisal Street GENERATOR EPA ID: CAD 98-200-5431
Salinas, CA 93905

LAB PACK CONTAINER NO: 3 PAGE 3 OF 3

DOT DESCRIPTION: Waste Chloroform Mixture, ORM-A UN/NA NO: UN1888
(Circle One)

CONTAINER SIZE: 5gal CONTAINER TYPE: Poly
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	Chloroform/Formvar (Formvar 15/95: polymer of polyvinal alcohol and formaldhyde as a copolymer with polyvinyl acetate)	1	.5L	ORM-A	UN1888	U044/ U122
03						
04						
05						
06						
07						
09						
10						
11						
12						
13						
14						
15						
16						

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1. Robin Eastman (SIGNATURE) 2. 10-02-89 (DATE)

3. Robin Eastman 4. Operations Chemist

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US v MSP Releasable
Rec'd from MSP PI Hearing
Vol 18 Exh 243 Page 1 of 1 U.S. MANIFESTS
Cont.

MSD007

GENERATOR NAME: U.S. Department of Agriculture DATE: 10-02-89

GENERATOR LOCATION: 1636 Alisal Street GENERATOR EPA ID: CAD982005431
Salinas, CA 93905

LAB PACK CONTAINER NO: 1 PAGE 1a OF 3

DOT DESCRIPTION: Waste Flammable Liquid, Poisonous, NOS UN/NA NO: UN1992
Flammable Liquid (Circle One)

CONTAINER SIZE: 30gal CONTAINER TYPE: fiber
(30 Gal. or less) (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WAS NO.
01	trithion 4 emulsive	1	empty 1gal can			NRM
02	Omite (propargite)	1	1pt			NRM
03	Omite (propargite)	1	1qt			NRM
04	Omite (propargite)	1	.25lb			NRM
05	Pentac (dienchlor)	1	.5lb			NRM
06	Metasystox (methyl dementon)	1	.5lb			NRM
07	Temik (aldicarb)	1	6lb	Poison B	UN2811	P070
08	Pentac (dienchlor)	1	1pt			NRM
09	tetraethyl pyrophosphate	1	1qt	Poison B	UN2811	P111
10	octamethylpyrophosphoramide (OMPA (Schradan))	1	1pt	Poison B	UN2811	P085
11	octamethylpyrophosphoramide (OMPA (Schradan))	1	1gal	Poison B	UN2811	P085
12	Lannate (methomyl)	1	1gal	Poison B	UN2811	P066
13	Dexol Granules	1	1.25lb	Poison B	UN2811	NRM
14	Chlorodane	1	.25lg	Poison B	UN2811	U036
15	Vitavax (carboxin)	1	1lb			NRM
16	Dithane A-40	1	3oz			NRM

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1. Robin Eastman
SIGNATURE

2. 10-12-89
DATE

3. Robin Eastman
NAME (Type or Print)

4. Operations Chemist
TITLE

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US v MSP Rec'd from MSP Releasable PI Hearing Vol 18 Exb 253 Mace US MANIFESTS Cont.

MSD007

OCT 30 1989 Document #8905316

GENERATOR NAME: U.S. Department of Agriculture DATE: 10-02-89

GENERATOR LOCATION: 1635 Alisal Street GENERATOR EPA ID: CAD982005431
Salinas, CA 93905

LAB PACK CONTAINER NO: 1 PAGE 1a OF 3

DOT DESCRIPTION: Waste Flammable Liquid, Poisonous, NOS UN/NA NO: UN1992
Flammable Liquid (Circle One)

CONTAINER SIZE: 30gal (30 Gal. or less) CONTAINER TYPE: fiber (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	trithion 4 emulsive	1	empty 1gal can			NRM
02	Omite (propargite)	1	1pt			NRM
03	Omite (propargite)	1	1qt			NRM
04	Omite (propargite)	1	.25lb			NRM
05	see attached sheets					
	Pentac (dienochlor)	1	.5lb			NRM
06	Metasystox (methyl dementon)	1	.5lb			NRM
07	Temik (aldicarb)	1	6lb	Poison B	UN2811	P070
	see attached sheets					
	Pentac (dienochlor)	1	1pt			NRM
09	tetraethyl pyrophosphate	1	1qt	Poison B	UN2811	P111
10	octamethylpyrophosphoramide (OMPA (Schradan))	1	1pt	Poison B	UN2811	P085
11	octamethylpyrophosphoramide (OMPA (Schradan))	1	1gal	Poison B	UN2811	P085
12	Lannate (methomyl)	1	1gal	Poison B	UN2811	P066
13	Dexol Granules (0,0-diethyl-S-[2-ethylthiol]-phosphorodithioate)	1	1.25lb	Poison B	UN2811	NRM
14	Chlorodane	1	.25lg	Poison B	UN2811	U036
15	see attached sheets					
	Vitavax (carboxin)	1	1lb			NRM
16	Dithane A-40	1	8oz			NRM

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1. Robin Eastman
SIGNATURE

2. 10-12-89
DATE

3. Robin Eastman
NAME (Type or Print)

4. Operations Chemist
TITLE

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Cont.

MSD007

Document # 8905316

OCT 30 1989

.Y 1 95 [illegible] 80 2 1 1 C 35 5

GENERATOR NAME: U.S. Department of Agriculture DATE: 10-02-89

GENERATOR LOCATION: 1636 Alisal Street Salinas, CA 93905 GENERATOR EPA ID: CAD298005431

LAB PACK CONTAINER NO: 1 PAGE 1b OF 3

DOT DESCRIPTION: Waste Flammable Liquid, Poisonous, NOS / Flammable Liquid (Circle One) UN/NA NO: UN1992

CONTAINER SIZE: 30gal (30 Gal. or less) CONTAINER TYPE: Fiber (Fiber or Poly)

ITEM NO.	MATERIAL DESCRIPTION	QUANTITY	VOLUME	DOT HAZARD CLASS	UN/NA	EPA WASTE NO.
01	50% dithane-50% PCNB	1	200g	Poison B	UN2811	U195
02	see attached sheets					
03	Benlate	1	.25lb			NRM
04	Benomyl	1	2g			NRM
05	Phygon (dichlone)	1	4oz	Poison B	UN2811	U166
06	Nicotine sulfate	1	300ml	Poison B	UN2811	P075
07	Acrylamide liquid	1	500ml	Poison B	UN2811	U007
	Acrylamid contaminated gloves, pipettes	1	24''x30'' bag	Poison B	UN2811	U007
09	Phycol (Phygon, dichlone)	1	1lb	Poison B	UN2811	U166
10	Petroleum ether	2	1L	Flammable	UN1271	D001
11	2-methoxyethanol	1	1L	Flammable	UN1993	D001
12	xylene	1	250ml	Flammable	UN1307	D001
13						
14						
15						
16						

I am an authorized employee of North State Environmental. I hereby certify that the lab pack represented by this material characterization data sheet and lab packing list is prepared and shipped in full compliance with the Marine Shale Processors, Inc. lab pack guidelines.

1. Robin Eastmen (SIGNATURE) 2. 10-02-89 (DATE)

3. Robin Eastman 4. Operations Chemist

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

RECYCLE / REUSE

MANIFEST No. 904216

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. C O 7 3 6 0 0 1 0 2 6 1 — Manifest Document No. 0 8 9 1 0 7 — 2. Page 1 of 3 — Information in the shaded areas is not required by Federal law.

3a. Generator's Name and Mailing Address
VA MEDICAL CENTER
1055 CLERMONT STREET
DENVER CO 80220-3877

4a. Generator's Phone (303) 399-8020 x 2892

5a. Transporter 1 Company Name: ROCKY MOUNTAIN ENVIRONMENTAL SVC — 6. US EPA ID Number: C O D 9 8 1 5 4 4 0 1 8

7a. Transporter 2 Company Name: WESTWAY MOTOR FREIGHT, INC. — 8. US EPA ID Number: C O D 0 0 7 8 1 0 9 8 9

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 0 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	
a. WASTE POISONOUS LIQUID, NOS, POISON B, UN-2810	001	DM	5	G	
b.					
c.					
d.					

GENERATOR

15. Special Handling Instructions and Additional Information
IN CASE OF EMERGENCY OR MANIFEST DISCREPANCY, NOTIFY RMEI @ 303/762-1012

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: RICHARD COLBY — Signature — Month Day Year: 01 25 89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: DAVID A. GENOVA — Signature — Month Day Year: 01 25 89

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name: KEITH J DAY — Signature — Month Day Year: 01 30 89

FACILITY

19. Discrepancy Indication Space
11-a: Waste number D004 R inserted per instructions from Richard Colby 2-1-89.

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.
Printed/Typed Name: Dicky D. Crapell — Signature — Month Day Year: 02 01 89

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 (R 9-88)

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MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

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

MCDS Document # 8900311 JAN 13 1989

MSP CODE: _____

Generator Name VA MEDICAL CENTER
Facility Address 1055 CLERMONT STREET
City, State, Zip DENVER, CO 80220-3877
Technical Contact RICH COLBY
Title SAFETY OFFICER
Telephone NO. (303) 399-8020 EXT: 2892
Facility EPA ID # CO73600 10261

Bill To: ROCKY MOUNTAIN ENVIRONMENTAL, INC.
Address: 2751 W. OXFORD UNIT #1
City, State, Zip: ENGLEWOOD, CO 80110
Telephone #: (303) 762-1012
Company Contact: DAVE GRANIVA
Contanier Size: 30 GALLON FIBER
EPA Waste No. N/A
Generating Process LAB CLEAN-OUT
Common Name of Waste OAKITE 84M / CLEANER
Rate of Generation 1 (Quan) DM (Units) PER ONE TIME (Time Interval)
Volume in Storage 1 (Quan) DM (Units) IN 30 GAL FIBER (Container Size and Type)

Is Waste DOT Hazardous |X| YES | | NO
Proper DOT Shipping Name HAZARDOUS WASTE SOLID, NOS
Hazard Class ORM-E ID No. NA-9189
Transportation Equipment ENCLOSED TRAILER
Placarding NONE

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

SODIUM BISULFATE	80-85	%
DISODIUM PHOSPHATE	5-15	%
CITRIC ACID	< 10	%
DODECYLBENZENESULFONIC ACID	< 5	%
		%
		%
		%

METALS (EP Toxicity Test, mg/1)

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/1 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/1 or ppm)

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

PHYSICAL DESCRIPTION

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

Total Solids (wt. %) 100 Suspended Solids (wt. %) N/A
BTU/lb ~2,000 % Ash Content 760 % Water (by weight) 0
Flash Point (°F) NONE Type N/A
Specific Gravity N/A
Boiling Point, (°C) NONE Freezing Point, (°C) NONE
Vapor Pressure (mm Hg @ 24°C) NIL
pH (Avg) ORGANIC NEUTRAL (Range) _____ to _____
Total Alkalinity/Acidity (%) ORGANIC NEUTRAL
Odor NONE
Color WHITE - YELLOW GREEN POWDER

HAZARDOUS PROPERTIES

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

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

OSHA LEVEL C

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 _____ GENERATOR'S SIGNATURE: _____

JAN 18 1989

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

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

MCDS Document # REFERENCE DOC. # 8900311

MSP CODE: _____

Generator Name: VA MEDICAL CENTER
Facility Address: 1055 CLERMONT STREET
City, State, Zip: DENVER, CO 80220-3877
Technical Contact: RICH COLBY
Title: SAFETY OFFICER
Telephone NO. (303) 399-8020 EXT: 2892
Facility EPA ID #: CO7360010261

Bill To: ROCKY MOUNTAIN ENVIRONMENTAL, INC.
Address: 2751 W. OXFORD, UNIT #1
City, State, Zip: ENGLEWOOD, CO 80110
Telephone #: (303) 762-1012
Company Contact: DAVE GENOVA
Contanier Size: PER MSP INSTRUCTIONS
EPA Waste No. D002
Generating Process: LAB CLEAN-OUT
Common Name of Waste: OAKITE 84M / CLEANER
Rate of Generation: 1 (Num) DM (Units) PER ONE TIME (Time Interval)
Volume in Storage: 1 (Num) DM (Units) IN 30 GAL FIBER (Container Size and Type)

Is Waste DOT Hazardous |X| YES | | NO
Proper DOT Shipping Name: WASTE CORROSIVE SOLID, NOS
Hazard Class: CORROSIVE ID No. _____
Transportation Equipment: ENCLOSED TRAILER
Placarding: NONE

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

SODIUM BISULFATE	80-85 %
DISODIUM PHOSPHATE	5-15 %
CITRIC ACID	<10 %
DODECYLBENZENESULFONIC ACID	<5 %
	%
	%
	%

METALS (EP Toxicity Test, mg/1)

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/1 or ppm)

Total CN	0	Iodine	0
Free CN	0	Asbestos	0
Sulfide	0		
Chloride	0		
Bisulfite	0		
Sulfite	0		
Sulfate	>200,000		
Phosphate	0		
Fluorine	0		
Bromine	0		
Chlorine	0		

ORGANICS (mg/1 or ppm)

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

PHYSICAL DESCRIPTION

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

Total Solids (wt. %) 100 Suspended Solids (wt. %) N/A
BTU/lb ~2000 % Ash Content >60 % Water (by weight) 0
Flash Point (°F) NONE Type N/A
Specific Gravity 10.0 LBS/GALLON
Boiling Point, (°C) N/A Freezing Point, (°C) N/A
Vapor Pressure (mm Hg @ 24°C) N/A
pH (Avg) <2 (Range) 1 to 2
Total Alkalinity/Acidity (%) ACIDIC
Odor NONE
Color WHITE-YELLOW/GREEN

HAZARDOUS PROPERTIES

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

REQUIRED PERSONNEL PROTECTIVE EQUIPMENT AND PROCEDURES:

OSHA LEVEL C

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 1/13/88 GENERATOR'S SIGNATURE: _____

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

4-26-89
4:46 P.M.

RECYCLE / REUSE

MANIFEST No. 904449

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. LA4800014587 — Manifest Document No. 88011
2. Page 1 of 1 — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: USNAS/NAVSUP FLC Marietta, Dept 3161, Box 2930 CNSJD Orleans, LA 70189
4. Generator's Phone (504) 267-3189

5. Transporter 1 Company Name: Marine Shale Processors — 6. US EPA ID Number: LAD981057706
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.	
GENERATOR a. Waste Compressed Gas, n.o.s., Flammable Gas, UN 1954 (EPA D001) RQ 100	3	DM	483	P	D001
b. Waste Flammable Solid, n.o.s., Flammable Solid, UN 1325 (EPA D001) RQ 100	33	DM	16253	P	D001
c. Waste Corrosive Solid, n.o.s., Corrosive Material, UN 1759	3	DM	1373	P	NR
Hazardous Waste Solid, n.o.s., ORM-E, NA9189 (EPA 121) RQ 5000	3	DM	1573	P	D121

[illegible]

15. Special Handling Instructions and Additional Information
In case of accident or spill contact: Chemtrec 1-800-424-9300
LA Dept. of Public Safety 504-924-6595

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
Karen M. Zeidler	Karen M. Zeidler	04	26	89

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Daniel J. Cuevas	Daniel J. Cuevas	04	26	89

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

FACILITY

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

Printed/Typed Name	Signature	Month	Day	Year
Gail Leonard	Gail Leonard	04	26	89

EPA Form 8700-22 (Rev. 8-81) WHITE – DEQ GREEN – Generator YELLOW – TSDRF BLUE – Transporter 2 PINK – Transporter 1 GOLD – Generator DEQ FORM HW-3 (8/88)

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8902201
MCDS Document #

MARINE SHALE PROCESSORS, INC.

MATERIALS CHARACTERIZATION DATA SHEET

APR 25 1989

SALES (504) 362-3987
PLANT (504) 631-3161

(6)

MSP CODE: _____
(Formerly 8802639, 8802640, 8802637)

SUBMITTED BY: SPECIAL PROJECTS DIVISION
GULF COAST ENVIRONMENTAL SERVICES, INC.

Generator Name: U.S. NASA/Martin Marietta
Facility Address: 13800 Old Gentilly Rd.
City, State, Zip: New Orleans, LA 70129
Technical Contact: K.M. Zedler
Title: Environmental Engineer
Telephone NO. (504) 257-3433 EXT: —
Facility EPA ID #: LA4800014587

Bill To: Gulf Coast Environmental
Company Contact: Leon Marks
Container Size: 55 gal and 85 gal. with crushed containers
EPA Waste No.: D001
Generating Process: Compacting contaminated containers
Common Name of Waste: Crushed containers
Rate of Generation: 120 (Quan) dr (Units) PER 4r (Time Interval)
Volume in Storage: 28 (Quan) dr (Units) IN 55 and 85 gal. drums (Container Size and Type)

Is Waste DOT Hazardous: ⋈ YES | | NO
Proper DOT Shipping Name: Waste Flammable Solid, n.o.s.
Hazard Class: Flammable Solid ID No.: UN 1325
Transportation Equipment: Truck
Placarding: Flammable

CHEMICAL COMPOSITION (No Trade Name)

(Totals must add up to 100%)

Steel	≥90.0 %
Non-hazardous trash, plastic and debris	≤ 10.0 %
Solvents (naptha, acetone, styrene monomer, chlorobenzene, heptane, MEK, MIBK, xylene, toluene, cyclohexanone, ethoxyethylacetate)	< 1.0 %

METALS (EP Toxicity Test, mg/l)

Arsenic (As)	NONE SUSPECTED	Silver (Ag)	NONE SUSPECTED
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 SUSPECTED	Iodine	NONE SUSPECTED
Free CN		Asbestos	
Sulfide			
Chloride			
Bisulfite			
Sulfite			
Sulfate			
Phosphate			
Flourine			
Bromine			
Chlorine			

ORGANICS (mg/l or ppm)

Endrin	NONE SUSPECTED	Organohalide	NONE SUSPECTED
Methoxychlor		Mercaptans	
Toxaphene			
2, 4-S			
2,4,5-T			
Phenol(ics)			
PCBs			
Dioxin			
TOC			

PHYSICAL DESCRIPTION

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

Total Solids (wt. %): 99+ Suspended Solids (wt. %): Not applicable
BTU/lb: <10 % Ash Content: 99+ % Water (by weight): <1.0
Flash Point (°F): <140° Type: Closed cup
Specific Gravity: 7.0-1.5 (S.G. of steel = approx. 8.0)
Boiling Point, (°C): — Freezing Point, (°C): —
Vapor Pressure (mm Hg @ 24°C): —
pH (Avg): neutral (Range): — to —
Total Alkalinity/Acidity (%): —
Odor: Solvent
Color: Various

HAZARDOUS PROPERTIES

					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: See MSDS's

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 4-24-89 GENERATOR'S SIGNATURE: Karen M. Zedler

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MANIFESTS

MSD007

DESOTO, INC.
MATERIAL SAFETY DATA SHEET DESOTO EPOXY BASE MSDS# 322

SECTION I

DESOTO, INC.
ADMINISTRATIVE AND RESEARCH CENTER
1700 S. MT. PROSPECT RD (BOX 5030)
DES PLAINES, ILLINOIS 60017

EMERGENCY TELEPHONE (312) 391-9000
CHEMTREC (800) 424-9300

PRODUCT CLASS
EPOXY BASE
MANUFACTURERS CODE IDENTIFICATION
515X346

DE NAME 020 PRIMER GREEN
DATE OF PREPARATION 02/18/88

**********SECTION II-HAZARDOUS INGREDIENTS**********

INGREDIENT [CAS NUMBER]	% BY* WEIGHT	OSHA PEL-PPM	ACGIH TLV-PPM	LEL	VAPOR PRESSURE @ 20 DEG C
TITANIUM DIOXIDE [13463-67-7]	5.0	15MG/M3	10 MG/M3	NA	NA
CYCLOHEXANONE [108-94-1]	< 5.0	50	25	1.1	3.4
METHYL ISOBUTYL KETONE 108-10-1	20.0	100	50	1.4	15
2-ETHOXYETHYL ACETATE[111-15-9]	15.0	S-100	S-5	1.8	2.0
STRONTIUM CHROMATE [7789-06-2]	20.0	.1MG/M3	0.05 MG/M3 AS CR	NA	NA

* PERCENT BY WEIGHT:
TO NEAREST 5% FOR SUBSTANCES 5-95%;
<5.0 FOR SUBSTANCES 1.0-5.0%;

S=SKIN; C=CEILING LIMIT
NE = NOT ESTABLISHED
NA = NOT APPLICABLE

**********SECTION III-PHYSICAL DATA**********

PROPERTY		MEASUREMENT
BOILING RANGE @ 760 MM HG		242.0 TO 313.0 DEG F. 116.0 TO 157.0 DEG C.
VAPOR DENSITY	(X) HEAVIER	( ) LIGHTER THAN AIR
WEIGHT PER GALLON		10.3 LBS.
PERCENT VOLATILE BY VOLUME		58.0
EVAPORATION RATE	( ) FASTER	(X) SLOWER THAN ETHER
APPEARANCE AND ODOR		LIQUID, SOLVENT ODOR

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**********SECTION IV-FIRE AND EXPLOSION DATA**********

DOT CATEGORY FLAMMABLE LIQUID FLASH POINT 74.0 DEG F.

OSHA CATEGORY FLAMMABLE LIQUID-CLASS I C (CLOSED CUP) 23.3 DEG C.

LOWER EXPLOSIVE LIMIT (LEL): SEE SECTION II

EXTINGUISHING MEDIA: USE NATIONAL FIRE PROTECTION ASSOCIATION CLASS B EXTINGUISHERS (CARBON DIOXIDE, DRY CHEMICAL OR FOAM).

UNUSUAL FIRE AND EXPLOSION HAZARDS: VAPORS MAY ACCUMULATE IN INADEQUATELY VENTILATED OR CONFINED AREAS. VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR. VAPORS MAY TRAVEL LONG DISTANCES. FLASHBACK OF FLAME TO THE HANDLING SITE MAY OCCUR. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT.

SPECIAL FIRE FIGHTING PROCEDURES: WATER SPRAY MAY BE INEFFECTIVE. COOL FIRE EXPOSED CONTAINERS WITH WATER. FOG NOZZLES ARE PREFERRABLE. WEAR NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

**********SECTION-V REACTIVITY DATA**********

STABILITY: ( ) UNSTABLE (X) STABLE

INCOMPATIBILITY (MATERIALS TO AVOID):
NONE RECOGNIZED.
HAZARDOUS DECOMPOSITION PRODUCTS: PRODUCTS OF COMBUSTION ARE HAZARDOUS.

HAZARDOUS POLYMERIZATION: ( ) MAY OCCUR (X) WILL NOT OCCUR

CONDITIONS TO AVOID:
NONE RECOGNIZED.

**********SECTION VI-WASTE DISPOSAL AND ENVIRONMENTAL RELEASES**********

ENVIRONMENTAL RELEASES: DEPENDING ON THE QUANTITY AND CIRCUMSTANCES, AN UNAUTHORIZED RELEASE OF THIS MATERIAL TO THE ENVIRONMENT MAY BE REPORTABLE UNDER FEDERAL LAW TO THE NATIONAL RESPONSE CENTER (800-424-8802). STATE AND LOCAL GOVERNMENTS MAY ALSO HAVE REPORTING REQUIREMENTS OF WHICH YOU SHOULD BE AWARE.
REMOVE ALL SOURCES OF IGNITION. WEAR PERSONAL PROTECTIVE EQUIPMENT TO AVOID BREATHING VAPORS AND SKIN AND EYE CONTACT WITH THE SPILLED MATERIAL. USE NON-SPARKING TOOLS. FOR SMALL SPILLS, DIKE AND ABSORB WITH INERT MATERIAL. USE EMERGENCY RESPONSE PROFESSIONALS IF MANAGING A RELEASE IS BEYOND THE CAPABILITY OF IN-HOUSE PERSONNEL.

WASTE DISPOSAL: THIS MATERIAL IS CLASSIFIED AS AN IGNITABLE HAZARDOUS WASTE. WHEN AFFECTING ITS DISPOSAL, INSURE THAT IT IS PACKAGED, STORED, TRANSPORTED AND OTHERWISE MANAGED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL HAZARDOUS WASTE LAWS AND REGULATIONS. NO DISPOSAL METHOD IS TO USED WHICH WOULD POSE ENVIRONMENTAL OR HUMAN HEALTH THREAT, INCLUDING ANY WHICH WOULD CONTAMINATE OR SURFACE WATERS.

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**********SECTION VII-HEALTH HAZARD DATA**********

SHOLD LIMIT VALUE: SEE SECTION II (NOT ESTABLISHED FOR PRODUCT)

EFFECTS OF OVEREXPOSURE:
INHALATION:
EXPOSURE MAY CAUSE NASAL AND RESPIRATORY IRRITATION AND ACUTE CENTRAL NERVOUS SYSTEM DEPRESSION CHARACTERIZED BY HEADACHE, DIZZINESS, STAGGERING GAIT, CONFUSION OR UNCONSCIOUSNESS. ASPHYXIATION MAY RESULT FROM BREATHING OXYGEN DEFICIENT AIR.
CONTACT:
PROLONGED OR REPEATED CONTACT MAY CAUSE IRRITATION, DEFATTING OR DERMATITIS.
EYE CONTACT:
PRIMARY IRRITATION.
INGESTION:
MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA.

OTHER HEALTH EFFECTS: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. EFFECTS INCLUDE CONCENTRATION DIFFICULTIES, DIMINISHED MANUAL DEXTERITY AND MEMORY LOSS.

OTHER HEALTH EFFECTS: REPRODUCTIVE AND BLOOD DISORDERS AND BIRTH DEFECTS HAVE BEEN OBSERVED IN TESTS ON LABORATORY ANIMALS WITH 2-METHOXYETHANOL, 2-ETHOXYETHANOL AND 2-ETHOXYETHYL ACETATE.

OTHER HEALTH EFFECTS: THE HEXAVALENT CHROMIUM COMPOUND CONTAINED IN THIS PRODUCT IS RECOGNIZED TO HAVE CARCINOGENIC POTENTIAL.

EMERGENCY AND FIRST AID PROCEDURES:
INHALATION:
REMOVE FROM EXPOSURE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION OR CARDIOPULMONARY RESUSCITATION (CPR) IF REQUIRED. IF BREATHING IS DIFFICULT, GIVE OXYGEN. KEEP WARM AND QUIET. GET MEDICAL ATTENTION.
SKIN CONTACT:
WASH AFFECTED AREAS WITH SOAP AND WATER. DO NOT USE SOLVENTS.
REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. GET MEDICAL ATTENTION.
DISCARD CONTAMINATED LEATHER ITEMS.
EYE CONTACT:
FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.
INGESTION:
GET MEDICAL ATTENTION.

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**********SECTION VIII-SPECIAL PROTECTION INFORMATION **********

IRATORY PROTECTION: IN AREAS WHERE TLVS IN SECTION II MAY BE EXCEEDED OR IF SPRAY MIST IS PRESENT, USE NIOSH/MSHA APPROVED RESPIRATORY PROTECTION APPROPRIATE FOR INDICATED COMPONENTS. IN CONFINED AREAS USE NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATORS. FOLLOW RESPIRATOR MANUFACTURERS DIRECTIONS AND OSHA REGULATIONS (29 CFR 1910.134) FOR RESPIRATOR USE.

VENTILATION: WHERE EMPLOYEES MAY BE EXPOSED, PROVIDE GENERAL DILUTION OR LOCAL
UST VENTILATION IN VOLUME AND PATTERN TO KEEP LEVEL OF HAZARDOUS INGREDIENTS
ECTION II BELOW RECOMMENDED (ACGIH TLV) OR REGULATED (OSHA PEL) LIMIT.
WHERE EMPLOYEES WILL NOT BE EXPOSED, KEEP LEVEL BELOW 25% OF LEL IN SECTION II.

PROTECTIVE GLOVES: WEAR CHEMICALLY RESISTANT GLOVES.

EYE PROTECTION: SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES

OTHER PROTECTIVE EQUIPMENT: AVOID SKIN CONTACT BY USE OF OTHER PROTECTIVE CLOTHING. A SAFETY SHOWER, AN EYE BATH AND WASHING FACILITIES SHOULD BE AVAILABLE.

**********SECTION IX-SPECIAL PRECAUTIONS**********

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND FLAME. DO NOT STORE ABOVE 49 DEG C (120 DEG F). STORE FLAMMABLE LIQUIDS
CORDANCE WITH APPLICABLE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
S AND GOVERNMENTAL REGULATIONS.
GROUNDING AND BONDING PROCEDURES SHOULD BE FOLLOWED WHEN TRANSFERRING THIS MATERIAL. AVOID FREE FALL OF LIQUID. DO NOT SMOKE WHERE THIS MATERIAL IS USED OR STORED. DO NOT APPLY TO HOT SURFACES.

OTHER PRECAUTIONS:
EMPTY DRUMS MAY CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, PUNCTURE OR WELD ON OR NEAR DRUM.
DO NOT TAKE INTERNALLY. DO NOT DELIBERATELY CONCENTRATE THIS PRODUCT AND INHALE THE VAPORS. PREVENT PROLONGED CONTACT WITH CONTAMINATED CLOTHING WASH CONTAMINATED CLOTHING BEFORE REUSE.
VAPORS OF THIS PRODUCT ARE HEAVIER THAN AIR AND MAY COLLECT IN LOW OR CONFINED AREAS. DO NOT ENTER SUCH AREAS WITH FOLLOWING APPROPRIATE PROCEDURES INCLUDING AIR MONITORING, USE OF SUPPLIED AIR IF NECESSARY AND THE PRESENCE OF AN OBSERVER FOR ASSISTANCE.

DO NOT SAND, FLAME CUT, BRAZE OR WELD THE DRY COATING WITHOUT NIOSH APPROVED RESPIRATOR OR APPROPRIATE VENTILATION.

OBSERVE PRECAUTIONARY LABEL WARNINGS.

PREPARED BY S. M. STEVENSON
TECHNICAL INFORMATION SPECIALIST

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DESOTO, INC.
MATERIAL SAFETY DATA SHEET

SECTION I

SOTO, INC.
MINISTRATIVE AND RESEARCH CENTER

1700 S. MT. PROSPECT RD (BOX 5030)
DES PLAINES, ILLINOIS 60017

ERGENCY TELEPHONE (312) 391-9000

CHEMTREC (800) 424-9300

OL CLASS EPOXY ACTIVATOR

MANUFACTURERS CODE IDENTIFICATION
910X520

ADE NAME 020 PRIMER ACTIVATOR

DATE OF PREPARATION 07/01/85

**********SECTION II-HAZARDOUS INGREDIENTS**********

INGREDIENT [CAS NUMBER]	% BY* WEIGHT	OSHA PEL-PPM	ACGIH TLV-PPM	LEL	VAPOR PRESSURE @ 20 DEG C
LUENE [108-88-3]	10.0	200	100	1.2	35
BUTANOL [71-36-3]	40.0	100	S,C-50	1.4	4.3
IPHATIC AMINE [TRADE SECRET]	25.0	NE	NE	NE	<1
LYAMIDE	25.0	NE	NE	NE	NA

PERCENT BY WEIGHT:
TO NEAREST 5% FOR SUBSTANCES 5-95%;
<5.0 FOR SUBSTANCES 1.0-5.0%;

S=SKIN; C=CEILING LIMIT
NE = NOT ESTABLISHED
NA = NOT APPLICABLE

**********SECTION III-PHYSICAL DATA**********

PROPERTY	MEASUREMENT
ILING RANGE @ 760 MM HG	232.C TO 498.0 DEG F. 111.C TO 259.0 DEG C.
POR DENSITY	(X) HEAVIER ( ) LIGHTER THAN AIR
IGHT PER GALLON	7.4 LBS.
RCENT VOLATILE BY VOLUME	57.4
APORATION RATE	( ) FASTER (X) SLOWER THAN ETHER
NCE AND ODOR	LICUID, SOLVENT ODOR

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**********SECTION IV-FIRE AND EXPLOSION DATA**********

T CATEGORY FLAMMABLE LIQUID FLASH POINT 45.0 DEG F.

HA CATEGORY FLAMMABLE LIQUID-CLASS I B (CLOSED CUP) 7.2 DEG C.

WER EXPLOSIVE LIMIT (LEL): SEE SECTION II

T. ISHING MEDIA: USE NATIONAL FIRE PROTECTION ASSOCIATION CLASS B TINGUISHERS (CARBON DIOXIDE, DRY CHEMICAL OR FOAM).

USUAL FIRE AND EXPLOSION HAZARDS: VAPORS MAY ACCUMULATE IN INADEQUATELY NTILATED OR CONFINED AREAS. VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR. PORS MAY TRAVEL LONG DISTANCES. FLASHBACK OF FLAME TO THE HANDLING SITE Y OCCUR. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TC EXTREME HEAT.

ECIAL FIRE FIGHTING PROCEDURES: WATER SPRAY MAY BE INEFFECTIVE. COOL RE EXPOSED CONTAINERS WITH WATER. FOG NOZZLES ARE PREFERRABLE. WEAR OSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE OTHING TO PREVENT CONTACT WITH SKIN AND EYES.

**********SECTION-V REACTIVITY DATA**********

AB' ITY: ( ) UNSTABLE (X) STABLE

TIBILITY (MATERIALS TO AVOID):
NO.E RECOGNIZED.
ZARDOUS DECOMPOSITION PRODUCTS: PRODUCTS OF COMBUSTION ARE HAZARDOUS.

ZARDOUS POLYMERIZATION: ( ) MAY OCCUR (X) WILL NOT OCCUR

NDITIONS TO AVOID:
NONE RECOGNIZED.

**********SECTION VI-WASTE DISPOSAL AND ENVIRONMENTAL RELEASES**********

VIRONMENTAL RELEASES: DEPENDING ON THE QUANTITY AND CIRCUMSTANCES, AN AUTHORIZED RELEASE OF THIS MATERIAL TO THE ENVIRONMENT MAY BE REPORTABLE DER FEDERAL LAW TO THE NATIONAL RESPONSE CENTER (800-424-8802). STATE AND ICAL GOVERNMENTS MAY ALSO HAVE REPORTING REQUIREMENTS OF WHICH YOU SHOULD AWARE.
MOVE ALL SOURCES OF IGNITION. WEAR PERSONAL PROTECTIVE EQUIPMENT TO AVOID EATHING VAPORS AND SKIN AND EYE CONTACT WITH THE SPILLED MATERIAL. USE N-SPARKING TOOLS. FOR SMALL SPILLS, DIKE AND ABSORB WITH INERT MATERIAL. E EMERGENCY RESPONSE PROFESSIONALS IF MANAGING A RELEASE IS BEYOND THE PABILITY OF IN-HOUSE PERSONNEL.

STE DISPOSAL: THIS MATERIAL IS CLASSIFIED AS AN IGNITABLE HAZARDOUS WASTE. EN AFFECTING ITS DISPOSAL, INSURE THAT IT IS PACKAGED, STORED, TRANSPORTED AND HERWISE MANAGED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL HAZARDOUS AWS AND REGULATIONS. NO DISPOSAL METHOD IS TO USED WHICH WOULD POSE RONMENTAL OR HUMAN HEALTH THREAT, INCLUDING ANY WHICH WOULD CONTAMINATE OUND OR SURFACE WATERS.

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**********SECTION VII-HEALTH HAZARD DATA**********

[illegible]RESHOLD LIMIT VALUE: SEE SECTION II (NOT ESTABLISHED FOR PRODUCT)

[illegible]FECTS OF OVEREXPOSURE:
[illegible]HALATION:
EXPOSURE MAY CAUSE NASAL AND RESPIRATORY IRRITATION AND ACUTE CENTRAL NERVOUS S[illegible]EM DEPRESSION CHARACTERIZED BY HEADACHE, DIZZINESS, STAGGERING GAIT, C[illegible]USION OR UNCONSCIOUSNESS. ASPHYXIATION MAY RESULT FROM BREATHING OXYGEN DEFICIENT AIR.
.IN CONTACT:
PROLONGED OR REPEATED CONTACT MAY CAUSE IRRITATION, DEFATTING OR DERMATITIS. PROLONGED OR REPEATED SKIN CONTACT MAY ALSO RESULT IN SKIN SENSITIZATION IN SOME INDIVIDUALS.
'E CONTACT:
PRIMARY IRRITATION.
[illegible]GESTION:
MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA.

'HER HEALTH EFFECTS: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED [illegible]CUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS '[illegible]STEM DAMAGE. EFFECTS INCLUDE CONCENTRATION DIFFICULTIES, DIMINISHED .NUAL DEXTERITY AND MEMORY LOSS.

IF[illegible]CY AND FIRST AID PROCEDURES:
[illegible]TION:
R[illegible]OVE FROM EXPOSURE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION OR CARDIOPULMONARY RESUSCITATION (CPR) IF REQUIRED. IF BREATHING IS DIFFICULT, GIVE OXYGEN. KEEP WARM AND QUIET. GET MEDICAL ATTENTION.
[illegible]IN CONTACT:
WASH AFFECTED AREAS WITH SOAP AND WATER. DO NOT USE SOLVENTS. REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. GET MEDICAL ATTENTION.
'E CONTACT:
FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.
[illegible]GESTION:
GET MEDICAL ATTENTION.

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********SECTION VIII-SPECIAL PROTECTION INFORMATION ********

SPIRATORY PROTECTION: IN AREAS WHERE TLVS IN SECTION II MAY BE EXCEEDED IF SPRAY MIST IS PRESENT, USE NIOSH/MSHA APPROVED RESPIRATORY PROTECTION PROPRIATE FOR INDICATED COMPONENTS. IN CONFINED AREAS USE NIOSH/MSHA PROVED AIR SUPPLIED RESPIRATORS. FOLLOW RESPIRATOR MANUFACTURERS RECTIONS AND OSHA REGULATIONS (29 CFR 1910.134) FOR RESPIRATOR USE.

N1 IION: WHERE EMPLOYEES MAY BE EXPOSED, PROVIDE GENERAL DILUTION OR LOCAL HAUST VENTILATION IN VOLUME AND PATTERN TO KEEP LEVEL OF HAZARDOUS INGREDIENTS SECTION II BELOW RECOMMENDED (ACGIH TLV) OR REGULATE D (OSHA PEL) LIMIT. ERE EMPLOYEES WILL NOT BE EXPOSED, KEEP LEVEL BELOW 25% OF LEL IN SECTION II.

OTECTIVE GLOVES: WEAR CHEMICALLY RESISTANT GLOVES.

E PROTECTION: SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES

HER PROTECTIVE EQUIPMENT: AVOID SKIN CONTACT BY USE OF OTHER PROTECTIVE OTHING. A SAFETY SHOWER, AN EYE BATH AND WASHING FACILITIES SHOULD BE AILABLE.

**********SECTION IX-SPECIAL PRECAUTIONS**********

ECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
EP NTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS ME. DO NOT STORE ABOVE 49 DEG C (120 DEG F). STORE FLAMMABLE LIQUIDS ORDANCE WITH APPLICABLE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) DES AND GOVERNMENTAL REGULATIONS.
OUNDING AND BONDING PROCEDURES SHOULD BE FOLLOWED WHEN TRANSFERRING THIS TERIAL. AVOID FREE FALL OF LIQUID. DO NOT SMOKE WHERE THIS MATERIAL . USED OR STORED. DO NOT APPLY TO HOT SURFACES.

HER PRECAUTIONS:
PTY DRUMS MAY CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, PUNCTURE OR WELD OR NEAR DRUM.
NOT TAKE INTERNALLY. DO NOT DELIBERATELY CONCENTRATE THIS PRODUCT AND HALE THE VAPORS. PREVENT PROLONGED CONTACT WITH CONTAMINATED CLOTHING SH CONTAMINATED CLOTHING BEFORE REUSE.
PORS OF THIS PRODUCT ARE HEAVIER THAN AIR AND MAY COLLECT IN LOW OR NFINED AREAS. DO NOT ENTER SUCH AREAS WITH FOLLOWING APPROPRIATE OCEDURES INCLUDING AIR MONITORING, USE OF SUPPLIED AIR IF NECESSARY D THE PRESENCE OF AN OBSERVER FOR ASSISTANCE.

NOT SAND, FLAME CUT, BRAZE OR WELD THE DRY COATING WITHOUT NIOSH PROVED RESPIRATOR OR APPROPRIATE VENTILATION.

OBSERVE PRECAUTIONARY LABEL WARNINGS.

PREPARED BY S. M. STEVENSON
TECHNICAL INFORMATION SPECIALIST

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MATERIAL SAFETY DATA SHEET

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ESOTO, INC.
DMINISTRATIVE AND RESEARCH CENTER
1700 S. MT. PROSPECT RD (BOX 5030)
DES PLAINES, ILLINOIS 60017

MERGENCY TELEPHONE (312) 391-9000

CHEMTREC (800) 424-9300

R. ..CT CLASS
SOLVENT

MANUFACTURERS CODE IDENTIFICATION
020-707

RADE NAME

DATE OF PREPARATION 07/01/85

**********SECTION II-HAZARDOUS INGREDIENTS**********

INGREDIENT (CAS NUMBER)	% BY* WEIGHT	OSHA PEL-PPM	ACGIH TLV-PPM	LEL	VAPOR PRESSURE @ 20 DEG C
METHYL ETHYL KETONE [78-93-3]	75.0	200	200	1.8	70
CYCLOHEXANONE [108-94-1]	25.0	50	25	1.1	3.4

* PERCENT BY WEIGHT:
TO NEAREST 5% FOR SUBSTANCES 5-95%;
<5.0 FOR SUBSTANCES 1.0-5.0%;

S=SKIN; C=CEILING LIMIT
NE = NOT ESTABLISHED
NA = NOT APPLICABLE

**********SECTION III-PHYSICAL DATA**********

PROPERTY		MEASUREMENT
BOILING RANGE @ 760 MM HG		176.C TO 313.0 DEG F. 80.C TO 157.0 DEG C.
VAPOR DENSITY	(X) HEAVIER	( ) LIGHTER THAN AIR
WEIGHT PER GALLON		6.9 LBS.
PERCENT VOLATILE BY VOLUME		100.0
EVAPORATION RATE	( ) FASTER	(X) SLOWER THAN ETHER
APPEARANCE AND ODOR		LIQUID, SOLVENT ODOR

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**********SECTION IV-FIRE AND EXPLOSION DATA**********

DOT CATEGORY FLAMMABLE LIQUID FLASH POINT 22.0 DEG F.

OSHA CATEGORY FLAMMABLE LIQUID-CLASS I B (CLOSED CUP) -5.6 DEG C.

LOWER EXPLOSIVE LIMIT (LEL): SEE SECTION II

EXTINGUISHING MEDIA: USE NATIONAL FIRE PROTECTION ASSOCIATION CLASS B EXTINGUISHERS (CARBON DIOXIDE, DRY CHEMICAL OR FOAM).

UNUSUAL FIRE AND EXPLOSION HAZARDS: VAPORS MAY ACCUMULATE IN INADEQUATELY VENTILATED OR CONFINED AREAS. VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR. VAPORS MAY TRAVEL LONG DISTANCES. FLASHBACK OF FLAME TO THE HANDLING SITE MAY OCCUR. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT.

SPECIAL FIRE FIGHTING PROCEDURES: WATER SPRAY MAY BE INEFFECTIVE. COOL FIRE EXPOSED CONTAINERS WITH WATER. FOG NOZZLES ARE PREFERRABLE. WEAR NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

**********SECTION-V REACTIVITY DATA**********

STABILITY: ( ) UNSTABLE (X) STABLE

INCOMPATIBILITY (MATERIALS TO AVOID):
NONE RECOGNIZED.
HAZARDOUS DECOMPOSITION PRODUCTS: PRODUCTS OF COMBUSTION ARE HAZARDOUS.

HAZARDOUS POLYMERIZATION: ( ) MAY OCCUR (X) WILL NOT OCCUR

CONDITIONS TO AVOID:
NONE RECOGNIZED.

**********SECTION VI-WASTE DISPOSAL AND ENVIRONMENTAL RELEASES**********

ENVIRONMENTAL RELEASES: DEPENDING ON THE QUANTITY AND CIRCUMSTANCES, AN UNAUTHORIZED RELEASE OF THIS MATERIAL TO THE ENVIRONMENT MAY BE REPORTABLE UNDER FEDERAL LAW TO THE NATIONAL RESPONSE CENTER (800-424-8802). STATE AND LOCAL GOVERNMENTS MAY ALSO HAVE REPORTING REQUIREMENTS OF WHICH YOU SHOULD BE AWARE.
REMOVE ALL SOURCES OF IGNITION. WEAR PERSONAL PROTECTIVE EQUIPMENT TO AVOID BREATHING VAPORS AND SKIN AND EYE CONTACT WITH THE SPILLED MATERIAL. USE NON-SPARKING TOOLS. FOR SMALL SPILLS, DIKE AND ABSORB WITH INERT MATERIAL. USE EMERGENCY RESPONSE PROFESSIONALS IF MANAGING A RELEASE IS BEYOND THE CAPABILITY OF IN-HOUSE PERSONNEL.

WASTE DISPOSAL: THIS MATERIAL IS CLASSIFIED AS AN IGNITABLE HAZARDOUS WASTE. WHEN AFFECTING ITS DISPOSAL, INSURE THAT IT IS PACKAGED, STORED, TRANSPORTED AND OTHERWISE MANAGED IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL HAZARDOUS WASTE LAWS AND REGULATIONS. NO DISPOSAL METHOD IS TO USED WHICH WOULD POSE AN ENVIRONMENTAL OR HUMAN HEALTH THREAT, INCLUDING ANY WHICH WOULD CONTAMINATE GROUND OR SURFACE WATERS.

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**********SECTION VII-HEALTH HAZARD DATA**********

HRESHOLD LIMIT VALUE: SEE SECTION II (NOT ESTABLISHED FOR PRODUCT)

FFECTS OF OVEREXPOSURE:
NHALATION:
EXPOSURE MAY CAUSE NASAL AND RESPIRATORY IRRITATION AND ACUTE CENTRAL NERVOUS
TEM DEPRESSION CHARACTERIZED BY HEADACHE, DIZZINESS, STAGGERING GAIT,
FUSION OR UNCONSCIOUSNESS. ASPHYXIATION MAY RESULT FROM BREATHING OXYGEN
DEFICIENT AIR.
KIN CONTACT:
PROLONGED OR REPEATED CONTACT MAY CAUSE IRRITATION, DEFATTING OR DERMATITIS.
YE CONTACT:
PRIMARY IRRITATION.
NGESTION:
MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA.

THER HEALTH EFFECTS: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED
CCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS
YSTEM DAMAGE. EFFECTS INCLUDE CONCENTRATION DIFFICULTIES, DIMINISHED
ANUAL DEXTERITY AND MEMORY LOSS.

MERGENCY AND FIRST AID PROCEDURES:
NHALATION:
VE FROM EXPOSURE TO FRESH AIR. GIVE ARTIFICIAL
PIRATION OR CARDIOPULMONARY RESUSCITATION (CPR) IF REQUIRED. IF BREATHING
DIFFICULT, GIVE OXYGEN. KEEP WARM AND QUIET. GET MEDICAL ATTENTION.
KIN CONTACT:
WASH AFFECTED AREAS WITH SOAP AND WATER. DO NOT USE SOLVENTS.
REMOVE CONTAMINATED CLOTHING AND WASH BEFORE REUSE. GET MEDICAL ATTENTION.
YE CONTACT:
FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.
NGESTION:
GET MEDICAL ATTENTION.

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**********SECTION VIII-SPECIAL PROTECTION INFORMATION **********

RESPIRATORY PROTECTION: IN AREAS WHERE TLVS IN SECTION II MAY BE EXCEEDED OR IF SPRAY MIST IS PRESENT, USE NIOSH/MSHA APPROVED RESPIRATORY PROTECTION APPROPRIATE FOR INDICATED COMPONENTS. IN CONFINED AREAS USE NIOSH/MSHA APPROVED AIR SUPPLIED RESPIRATORS. FOLLOW RESPIRATOR MANUFACTURERS DIRECTIONS AND OSHA REGULATIONS (29 CFR 1910.134) FOR RESPIRATOR USE.

VENTILATION: WHERE EMPLOYEES MAY BE EXPOSED, PROVIDE GENERAL DILUTION OR LOCAL EXHAUST VENTILATION IN VOLUME AND PATTERN TO KEEP LEVEL OF HAZARDOUS INGREDIENTS IN SECTION II BELOW RECOMMENDED (ACGIH TLV) OR REGULATE D (OSHA PEL) LIMIT. WHERE EMPLOYEES WILL NOT BE EXPOSED, KEEP LEVEL BELOW 25% OF LEL IN SECTION II.

PROTECTIVE GLOVES: WEAR CHEMICALLY RESISTANT GLOVES.

EYE PROTECTION: SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES

OTHER PROTECTIVE EQUIPMENT: AVOID SKIN CONTACT BY USE OF OTHER PROTECTIVE CLOTHING. A SAFETY SHOWER, AN EYE BATH AND WASHING FACILITIES SHOULD BE AVAILABLE.

**********SECTION IX-SPECIAL PRECAUTIONS**********

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND FLAME. DO NOT STORE ABOVE 49 DEG C (120 DEG F). STORE FLAMMABLE LIQUIDS IN ACCORDANCE WITH APPLICABLE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CODES AND GOVERNMENTAL REGULATIONS.
GROUNDING AND BONDING PROCEDURES SHOULD BE FOLLOWED WHEN TRANSFERRING THIS MATERIAL. AVOID FREE FALL OF LIQUID. DO NOT SMOKE WHERE THIS MATERIAL IS USED OR STORED. DO NOT APPLY TO HOT SURFACES.

OTHER PRECAUTIONS:
EMPTY DRUMS MAY CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, PUNCTURE OR WELD ON OR NEAR DRUM.
DO NOT TAKE INTERNALLY. DO NOT DELIBERATELY CONCENTRATE THIS PRODUCT AND INHALE THE VAPORS. PREVENT PROLONGED CONTACT WITH CONTAMINATED CLOTHING WASH CONTAMINATED CLOTHING BEFORE REUSE.
VAPORS OF THIS PRODUCT ARE HEAVIER THAN AIR AND MAY COLLECT IN LOW OR CONFINED AREAS. DO NOT ENTER SUCH AREAS WITH FOLLOWING APPROPRIATE PROCEDURES INCLUDING AIR MONITORING, USE OF SUPPLIED AIR IF NECESSARY AND THE PRESENCE OF AN OBSERVER FOR ASSISTANCE.

DO NOT SAND, FLAME CUT, BRAZE OR WELD THE DRY COATING WITHOUT NIOSH APPROVED RESPIRATOR OR APPROPRIATE VENTILATION.

OBSERVE PRECAUTIONARY LABEL WARNINGS.

PREPARED BY S. M. STEVENSON
TECHNICAL INFORMATION SPECIALIST

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aldrich chemical co.

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DATE: 09/09/87

ATTN: SAFETY DIRECTOR
MARTIN MARIETTA
BOX 29304
DEPT 3141
NEW ORLEANS LA 70189
DALE MAHAKE

CUST # 932376 P.O. #

PAGE: 1

MATERIAL SAFETY DATA SHEET

IDENTIFICATION

PRODUCT # 10138-9 NAME: CHLOROBENZENE, 99%
CAS # 108-90-7

TOXICITY HAZARDS

RTECS # CZ0175000
BENZENE, CHLORO-
TOXICITY DATA
ORL-RAT LD50:2910 MG/KG 14CYAT 2,1334,63
IPR-MUS LD50:515 MG/KG PHMCAA 10,172,68
ORL-RBT LD50:2250 MG/KG 38MKAJ 23,3603,81
ORL-GPG LD50:5060 MG/KG 38MKAJ 28,3603,81
REVIEWS, STANDARDS, AND REGULATIONS
ACGIH TLV-TWA 75 PPM 85INA8 5,123,86
MSHA STANDARD-AIR:TWA 75 PPM (350 MG/M3) DTLVS* 3,49,71
OSHA STANDARD-AIR:TWA 75 PPM FEREAC 39,23540,74
EPA TSCA CHEMICAL INVENTORY, 1986
EPA TSCA 8(A) PRELIMINARY ASSESSMENT INFORMATION, FINAL RULE FEREAC 47,26992,82
EPA TSCA SECTION 8(E) STATUS REPORT 8EHQ-1080-0363;8EHQ-0979-0310; 8EHQ-0180-0330
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, DECEMBER 1986
NIOSH ANALYTICAL METHODS: SEE HYDROCARBONS, HALOGENATED, 1003
NTP CARCINOGENESIS STUDY (GAVAGE);RESULTS NEGATIVE:MOUSE,RAT NTPTR* NTP-TR-261,85
MEETS CRITERIA FOR PROPOSED OSHA MEDICAL RECORDS RULE FEREAC 47,3043 82

ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR COMPLETE INFORMAT

HEALTH HAZARD DATA

ACUTE EFFECTS
HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
VAPOR OR MIST IS IRRITATING TO THE EYES, MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.
CAUSES SKIN IRRITATION.
EXPOSURE CAN CAUSE:
NAUSEA, DIZZINESS AND HEADACHE
DAMAGE TO THE LIVER
DAMAGE TO THE KIDNEYS
FIRST AID
IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.
CONTAMINATION OF THE EYES SHOULD BE TREATED BY IMMEDIATE AND PROLONGED IRRIGATION WITH COPIOUS AMOUNTS OF WATER.
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
CALL A PHYSICIAN.
WASH CONTAMINATED CLOTHING BEFORE REUSE.

PHYSICAL DATA

MELTING POINT: -46 C
BOILING POINT: 132 C
SPECIFIC GRAVITY: 1.106
VAPOR DENSITY: 3.96

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940 West Saint Paul Avenue
Milwaukee, Wisconsin 53233

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Telephone 88 32 7010

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M A T E R I A L S A F E T Y D A T A S H E E T PAGE:

CATALOG # 10138-9 NAME: CHLOROBENZENE, 99%

VAPOR PRESSURE: 11.8 MM @ 25 C

---------- FIRE AND EXPLOSION HAZARD DATA ----------

AUTO IGNITION TEMP.: 1178 F
LOWER EXPLOSION LEVEL: 1.3%
UPPER EXPLOSION LEVEL: 7.1%
FLASH POINT: 75 F

EXTINGUISHING MEDIA
WATER SPRAY.
CARBON DIOXIDE, DRY CHEMICAL POWDER, ALCOHOL OR POLYMER FOAM.

SPECIAL FIRE FIGHTING PROCEDURES
WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSION HAZARDS
DANGER!
FLAMMABLE LIQUID.
VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND FLASH BACK.

---------- REACTIVITY DATA ----------

INCOMPATIBILITIES
OXIDIZING AGENTS

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS
TOXIC FUMES OF:
HYDROGEN CHLORIDE GAS
CARBON MONOXIDE, CARBON DIOXIDE

---------- SPILL OR LEAK PROCEDURES ----------

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
EVACUATE AREA.
SHUT OFF ALL SOURCES OF IGNITION.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.
ABSORB ON SAND OR VERMICULITE AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

WASTE DISPOSAL METHOD
BURN IN A CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER BUT EXERT EXTRA CARE IN IGNITING AS THIS MATERIAL IS HIGHLY FLAMMABLE.

OBSERVE ALL FEDERAL, STATE & LOCAL LAWS.

--- PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE ----

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
SAFETY SHOWER AND EYE BATH.
MECHANICAL EXHAUST REQUIRED.
DO NOT BREATHE VAPOR.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.
IRRITANT.
HARMFUL LIQUID.
KEEP TIGHTLY CLOSED.
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME.
STORE IN A COOL DRY PLACE.

---------- ADDITIONAL PRECAUTIONS AND COMMENTS ---------

NOT APPLICABLE

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M A T E R I A L S A F E T Y D A T A S H E E T

CATALOG # 10138-9 NAME: CHLOROBENZENE, 99%

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HEPTANE

EXXON COMPANY, USA
A DIVISION OF EXXON CORPORATION

Form No. OS-1A-20
8/10/79
Supersedes Issue of 8/1/77

U.S. DEPARTMENT OF LABOR
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

MATERIAL SAFETY DATA SHEET

DC-12

SECTION I

MANUFACTURER'S NAME: EXXON COMPANY, U.S.A.	EMERGENCY TELEPHONE NO.: (713) 656-3424
ADDRESS (Number, Street, City, State and ZIP Code): P. O. Box 2180 Houston, Texas 77001	
CHEMICAL NAME AND SYNONYMS: Petroleum Solvent	TRADE NAME AND SYNONYMS: HEPTANE
CHEMICAL FAMILY: Petroleum Hydrocarbon	FORMULA: C_7H_{16}

SECTION II HAZARDOUS INGREDIENTS

	%	TLV (UNITS)
SOLVENTS	100	400 ppm

SECTION III PHYSICAL DATA

BOILING RANGE: IBP-Dry Pt. (201-210°F)	94-99°C	SPECIFIC GRAVITY (H_2O=1): 15.6°/15.6°C	0.73
VAPOR PRESSURE (mm Hg.): @ 25°C	50	PERCENT VOLATILE BY VOLUME (%)	100
VAPOR DENSITY (AIR=1)	3.4	EVAPORATION RATE (n-BUTYL ACETATE=1)	5.8
SOLUBILITY IN WATER	Negligible		

APPEARANCE AND ODOR: Water-white liquid. Mild, pleasant hydrocarbon odor.

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used): Tag Closed Cup ~ -8°C (~ 18°F) 25°F	FLAMMABLE OR EXPLOSIVE LIMITS (PERCENT BY VOLUME IN AIR)	LOWER LIMIT: 1.1% / UPPER LIMIT: 7.0%

EXTINGUISHING MEDIA: Foam, dry chemical, CO_2, or water fog or spray.

SPECIAL FIRE FIGHTING PROCEDURES: Use air-supplied breathing equipment for enclosed areas. Cool exposed containers with water spray. Avoid breathing vapor or fumes.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Do not store or mix with strong oxidants like liquid chlorine or concentrated oxygen.

FLAMMABLE LIQUID

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SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

400 ppm for 8 hour workday.

EFFECTS OF OVEREXPOSURE

Inhalation of high vapor concentrations may have results ranging from dizziness and headaches to unconsciousness. Prolonged or repeated liquid contact with the skin will dry and defat the skin leading to irritation and dermatitis.

EMERGENCY AND FIRST AID PROCEDURES

If overcome by vapor, remove from exposure immediately; call a Physician. If breathing is irregular or stopped, start resuscitation, administer oxygen. If ingested, DO NOT induce vomiting; call a Physician. In case of skin contact, remove any contaminated clothing, and wash skin with soap and warm water. If splashed into the eyes, flush eyes with clear water for 15 minutes or until irritation subsides.

SECTION VI REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	

INCOMPATABILITY *(Materials to avoid)*
Strong oxidants like: liquid chlorine, concentrated oxygen, sodium- or calcium hypochlori

HAZARDOUS DECOMPOSITION PRODUCTS
Fumes, smoke and carbon monoxide, in the case of incomplete combustion.

HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Remove all ignition sources. Keep people away. Recover free liquid. Add absorbent (sand, earth, sawdust, etc.) to spill area. Avoid breathing vapors. Ventilate confined spaces. Open all windows and doors. Keep petroleum products out of sewers and watercourses by diking or impounding. Advise authorities if product has entered or may enter sewers, watercourses, or extensive land areas.

WASTE DISPOSAL METHOD

Assure conformity with applicable disposal regulations. Dispose of absorbed material at an approved disposal site or facility.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION *(Specify type)* Use hydrocarbon vapor canister or supplied-air respiratory protection in confined or enclosed spaces if needed.

VENTILATION	LOCAL EXHAUST: Face velocity >fpm	SPECIAL: Use only with adequate* ventilation.
	MECHANICAL *(General)*: Use explosion-proof equipment.	OTHER: No smoking or open lights.

PROTECTIVE GLOVES Use chemical-resistant gloves, if needed to avoid repeated or prolonged skin contact.

EYE PROTECTION Use splash goggles or face shield when eye contact may occur

OTHER PROTECTIVE EQUIPMENT Use chemical-resistant apron or other clothing if needed to avoid repeated or prolonged skin contact.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING

Keep containers closed when not in use. Do not handle or store near heat, sparks, flame, or strong oxidant. Adequate* ventilation required.

*Adequate means equivalent to outdoors.

OTHER PRECAUTIONS Avoid breathing vapors. Avoid prolonged or repeated contact with skin. Remove contaminated clothing, launder before reuse. Remove contaminated shoes and thoroughly before reuse. Wash thoroughly with soap and water after contact.

FOR ADDITIONAL INFORMATION ON HEALTH EFFECTS CONTACT:
Director of Industrial Hygiene
(713) 656-2443

FOR OTHER PRODUCT INFORMATION CONTACT:
Manager, Marketing Technical Services
(713) 656-4929

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