

NM1 - 10B

C-138

YEAR(S):

2006-2002

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: Non-Exempt: <input checked="" type="checkbox"/>	4. Generator: Red Willow Production Company
Verbal Approval Received: Yes <input type="checkbox"/> No: <input type="checkbox"/>	5. Originating Site: McElvain Compressor
2. Management Facility Destination: JFJ Landfarm L.L.C.	6. Transporter:
3. Address of Facility Operator: JFJ Landfarm C/o. Industrial Ecosystems Inc. P.o Box 2043 Farmington, NM 87499	8. State: NM
7. Location of Material (Street Address or ULSTR) S-25, T-33N, R-08W	
9. <u>Circle One</u> : A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.	

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Mixture of sand/gravl/engine oil (15W40) from clean-up around engine and location. MSDS, RCRA8, TCLP, Chain of Custody forms attached

DENIED

Known Volume _____ (to be entered by the operator at the end of the haul)

SIGNATURE


Waste Management Facility Authorized Agent

TITLE: Operations Manager

DATE: 12/15/06

TYPE OR PRINT NAME: JOEL OWENS

TELEPHONE NO. (505) 632-1782

E-MAIL ADDRESS: joel.owens@industrialecosystems.com

(This space for State Use)

APPROVED BY:

Brandon Powell

TITLE:

Enviro/spec

DATE:

12-26-06

APPROVED BY:

TITLE:

DATE:

DENIED Laboratory did not retest sample. The original laboratory results were modified and resubmitted. QA/QC **DUPLICATE** documents were generated approximately 1 month after test were run.

RCVD DEC 26 '06



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIV.

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Wayne Price
Director
Oil Conservation Division

DIST. 3

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Red Willow Production Company 14933 Hwy 172 Ignacio, Colorado 81137	2. Destination Name: J.F.J. Landfarm C/O Industrial Ecosystems Inc. #81 CR 3150 Aztec, NM 87410 Phone # 505-632-1782 Fax No# 505-334-1003
3. Originating Site (name): McElvain Compressor Attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR): UL- <u>S-25 T-33N R-08W</u> or attach list Street Address: _____
4. Source and Description of Waste Mixture of Sand/Gravel/Engine oil (15W40) from clean up around engine and location.	

I, Jonathan Sorrel representative for: Red Willow Production Company do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is:

(Check appropriate classification)

EXEMPT oilfield waste

NON-EXEMPT oilfield waste which is non-hazardous by characteristic Analysis or by product identification and that nothing has been added to The exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information
- RCRA 8 Hazardous Waste Analysis
- Chain of Custody
- Other (description) TCLP

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): [Signature]

Phone Contact: 970-563-5193

Title: EHS Manager / EHS TECHNICIAN

P.O.# / Pay key No: _____

Date: 18-Dec-06

MSDS Code: 776084
Status: Final

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Date of Issue: 06-May-2004



MATERIAL SAFETY DATA SHEET

Conoco HD Fleet Supreme Engine Oil

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Conoco HD Fleet Supreme Engine Oil
Product Code: 46261
Intended Use: Heavy Duty Diesel Engine Oil
Synonyms: Conoco MSDS #MOTC0090
Conoco HD Fleet Supreme Engine Oil (AP Region)
Conoco HD Fleet Supreme Engine Oil 10W-30
Conoco HD Fleet Supreme Engine Oil 15W-40
Conoco HD Fleet Supreme Engine Oil 20W-50
Chemical Family: Not Given

Responsible Party: Conoco Lubricants
A Division of ConocoPhillips
600 N. Dairy Ashford
Houston, Texas
77079-1175

Customer Service: 800-255-9558
Technical Information: 800-255-9558

The intended use of this product is indicated above. If any additional use is known, please contact us at the Technical Information number listed.

EMERGENCY OVERVIEW

24 Hour Emergency Telephone Numbers:
Spill, Leak, Fire or Accident Call CHEMTREC:
North America: (800) 424-9300
Others: (703) 527-3887 (collect)

California Poison Control System: (800) 356-3219

Health Hazards/Precautionary Measures: Causes eye and skin irritation. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Physical Hazards/Precautionary Measures: Keep away from all sources of ignition.

Appearance: Light brown
Physical Form: Liquid
Odor: Light petroleum

NFPA 704 Hazard Class:

Health: 1 (Slight)
Flammability: 1 (Slight)
Instability: 0 (Least)

HMIS Hazard Class:

Health: 1 (Slight)
Flammability: 1 (Slight)
Physical Hazards: 0 (Least)

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2. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS					
Component / CAS No:	Percent (%)	ACGIH:	OSHA:	NIOSH:	Other:
Zinc Compound	1 - 2	NE	NE	NE	
PROPRIETARY					

NON-HAZARDOUS COMPONENTS					
Component / CAS No:	Percent (%)	ACGIH:	OSHA:	NIOSH:	Other:
Lubricant Base Oil (Petroleum) VARIOUS	70 - 80	5mg/m ³ TWA 10 mg/m ³ STEL	5 mg/m ³ TWA	2500 mg/m ³ IDLH	as Oil Mist, if Generated 5 mg/m ³ NOHSC TWA
Additives PROPRIETARY	20 - 30	NE	NE	NE	

All components are listed on the TSCA inventory.

The base oil for this product can be a mixture of any of the following highly refined petroleum streams: CAS 64741-88-4; CAS 64741-89-5; CAS 64741-96-4; CAS 64741-97-5; CAS 64742-01-4; CAS 64742-52-5; CAS 64742-53-6; CAS 64742-54-7; CAS 64742-55-8; CAS 64742-56-9; CAS 64742-57-0; CAS 64742-62-7; CAS 64742-63-8; CAS 64742-65-0; CAS 72623-85-9; CAS 72623-86-0; CAS 72623-87-1

Note: State, local or other agencies or advisory groups may have established more stringent limits. Consult an industrial hygienist or similar professional, or your local agencies, for further information.

1%=10,000 PPM.

NE=Not Established

3. HAZARDS IDENTIFICATION**Potential Health Effects:**

Eye: Eye irritant. Contact may cause stinging, watering, redness, and swelling.

Skin: Skin irritant. Contact may cause redness, itching, burning, and skin damage. No harmful effects from skin absorption are expected.

Inhalation (Breathing): No information available. Studies by other exposure routes suggest a low degree of toxicity by inhalation.

Ingestion (Swallowing): No harmful effects expected from ingestion.

Signs and Symptoms: Effects of overexposure may include irritation of the nose and throat, irritation of the digestive tract, nausea, and, diarrhea.

Cancer: Inadequate evidence available to evaluate the cancer hazard of this material. See Section 11 for carcinogenicity information of individual components, if any.

Target Organs: No data available for this material.

Developmental: No data available for this material.

Pre-Existing Medical Conditions: Conditions aggravated by exposure may include skin disorders.

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4. FIRST AID MEASURES

Eye: Move victim away from exposure and into fresh air. If irritation or redness develops, flush eyes with clean water and seek medical attention. For direct contact, hold eyelids apart and flush the affected eye(s) with clean water for at least 15 minutes. Seek medical attention.

Skin: Wipe material from skin, remove contaminated shoes and clothing and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention. If skin surface is not damaged, cleanse affected area(s) thoroughly by washing with mild soap and water and, if necessary, a waterless skin cleanser. If irritation or redness develops, seek medical attention.

Inhalation (Breathing): If respiratory symptoms develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Ingestion (Swallowing): First aid is not normally required; however, if swallowed and symptoms develop, seek medical attention.

Notes to Physician: High-pressure hydrocarbon injection injuries may produce substantial necrosis of underlying tissue despite an innocuous appearing external wound. Often these injuries require extensive emergency surgical debridement and all injuries should be evaluated by a specialist in order to assess the extent of injury.

Acute aspirations of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities.

5. FIRE-FIGHTING MEASURES

Flammable Properties:

Flash Point:	380°F / 193°C
Test Method:	PM
OSHA Flammability Class:	Not applicable
LEL%:	No data
UEL%:	No data
Autoignition Temperature:	No data

Unusual Fire & Explosion Hazards: This material may burn, but will not ignite readily. If water is applied to heated material, it can cause violent foaming and rollover. If container is not properly cooled, it can rupture in the heat of a fire.

Extinguishing Media: Dry chemical, carbon dioxide, foam, or water spray is recommended. Water or foam may cause frothing of materials heated above 212°F. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces.

Fire Fighting Instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined spaces, or when explicitly required by DOT, a self contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate immediate hazard area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk.

Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

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6. ACCIDENTAL RELEASE MEASURES

This material may burn, but will not ignite readily. Keep all sources of ignition away from spill/release. Stay upwind and away from spill/release. Notify persons down wind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8).

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Spilled material may be absorbed into an appropriate absorbent material.

Notify fire authorities and appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended. Notify appropriate federal, state, and local agencies.

7. HANDLING AND STORAGE

Handling: Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Sections 2 and 8).

Do not wear contaminated clothing or shoes. Use good personal hygiene practices.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

High pressure injection of hydrocarbon fuels, hydraulic oils or greases under the skin may have serious consequences even though no symptoms or injury may be apparent. This can happen accidentally when using high pressure equipment such as high pressure grease guns, fuel injection apparatus or from pinhole leaks in tubing of high pressure hydraulic oil equipment.

Before working on or in tanks which contain or have contained this material, refer to OSHA regulations, ANSI Z49.1, and other references pertaining to cleaning, repairing, welding, or other contemplated operations.

Storage: Use and store this material in cool, dry, well-ventilated areas away from heat and all sources of ignition. Storage temperatures above 113°F may lead to thermal decomposition, resulting in the generation of hydrogen sulfide and other sulfur containing gases. Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat and all sources of ignition. Store only in approved containers. Use and store this material in cool, dry, well-ventilated areas. Keep away from any incompatible material (see Section 10). Protect container(s) against physical damage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: If current ventilation practices are not adequate to maintain airborne concentrations below the established exposure limits (see Section 2), additional engineering controls may be required.

Personal Protective Equipment (PPE):

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Respiratory: Inhalation is not an expected route of exposure. However, a NIOSH certified air purifying respirator with a Type 95 (R or P) particulate filter may be used under conditions where airborne concentrations are expected to exceed exposure limits (see Section 2).

Protection provided by air purifying respirators is limited (see manufacturer's respirator selection guide). Use a positive pressure air supplied respirator if there is potential for uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin: The use of gloves impervious to the specific material handled is advised to prevent skin contact, possible irritation, and skin damage (see glove manufacturer literature for information on permeability). Depending on conditions of use, apron and/or arm covers may be necessary.

Eye/Face: Approved eye protection to safeguard against potential eye contact, irritation, or injury is recommended. Depending on conditions of use, a face shield may be necessary.

Other Protective Equipment: A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

Suggestions for the use of specific protective materials are based on readily available published data. Users should check with specific manufacturers to confirm the performance of their products.

9. PHYSICAL AND CHEMICAL PROPERTIES

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).

Appearance:	Light brown
Physical Form:	Liquid
Odor:	Light petroleum
Odor Threshold:	No data
pH:	Not applicable
Vapor Pressure (mm Hg):	<1
Vapor Density (air=1):	>1
Boiling Point:	No data
Melting/Freezing Point:	No data
Solubility In Water:	No data
Partition Coefficient (n-octanol/water):	No data
Specific Gravity:	0.88
Bulk Density:	7.33
Bulk Density Units	lbs/gal
Viscosity cSt @ 100°C:	15.1
Viscosity cSt @ 40°C:	115
Evaporation Rate (nBuAc=1):	<1
Flash Point:	380°F / 193°C
Test Method:	PM
Flammable/Explosive Limits:	No data
Decomposition Temperature:	No data

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10. STABILITY AND REACTIVITY

Stability: Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Conditions to avoid: Can become unstable at elevated temperatures and pressures.

Materials to Avoid (Incompatible Materials): Avoid contact with acids and strong oxidizing agents.

Hazardous Decomposition Products: Combustion can yield carbon, nitrogen, sulfur, phosphorus, and zinc oxides. Hydrogen sulfide and alkyl mercaptans may also be released. Thermal decomposition may produce hydrogen sulfide and other sulfur-containing gases at temperatures greater than 113°F.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Lubricant Base Oil (Petroleum) - VARIOUS

Carcinogenicity: The petroleum base oils contained in this product have been highly refined by a variety of processes including solvent extraction, hydrotreating, and dewaxing to remove aromatics and improve performance characteristics. None of the oils used are listed as a carcinogen by NTP, IARC, or OSHA.

Acute Data:

Lubricant Base Oil (Petroleum) - VARIOUS

Dermal LD50 = >2 g/kg

LC50 = No information available

Oral LD50 = >5 g/kg

Additives - PROPRIETARY

Dermal LD50 = No information available

LC50 = No information available

Oral LD50 = No information available

Zinc Compound - PROPRIETARY

Dermal LD50 = No information available

LC50 = No information available

Oral LD50 = No information available

12. ECOLOGICAL INFORMATION

Not evaluated at this time.

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Status: Final

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13. DISPOSAL CONSIDERATIONS

This material under most intended uses would become used oil due to contamination by physical or chemical impurities. RECYCLE ALL USED OIL. While being recycled, used oil is regulated by 40 CFR 279. Use resulting in chemical or physical change or contamination may also subject it to regulation as hazardous waste. Under federal regulations, used oil is a solid waste managed under 40 CFR 279. However, in California, used oil is managed as hazardous waste until tested to show it is not hazardous. Consult state and local regulations regarding the proper handling of used oil. In the case of used oil, the intent to discard it may cause the used oil to be regulated as hazardous waste.

Contents should be completely used and containers emptied prior to discard. Rinseate may be considered a RCRA hazardous waste and must be disposed of with care and in compliance with federal, state and local regulations. Large empty containers, such as drums, should be returned to the distributor or a drum reconditioner. To assure proper disposal of small empty containers, consult with state and local regulations and disposal authorities.

14. TRANSPORTATION INFORMATION

DOT Shipping Description: Not classified as hazardous

Note: Material is unregulated unless in container of 3500 gallons or more, then provisions of 49 CFR Part 130 apply for land shipment.

IMDG Shipping Description: Not regulated

ICAO/IATA Shipping Description: Not regulated

15. REGULATORY INFORMATION

U.S. Regulations:

EPA SARA 311/312 (Title III Hazard Categories)

Acute Health:	Yes
Chronic Health:	No
Fire Hazard:	No
Pressure Hazard:	No
Reactive Hazard:	No

SARA - Section 313 and 49 CFR 372:

This material contains the following chemicals subject to the reporting requirements of SARA 313 and 40 CFR 372:
Zinc Compound 1-2%

EPA (CERCLA) Reportable Quantity:

—None Known—

CERCLA/SARA - Section 302 Extremely Hazardous Substances and TPOs

This material contains the following chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372:
— None Known —

California Proposition 65:

Warning: This material contains the following chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of California Proposition 65 (CA Health & Safety Code Section 25249.5):

— None Known —

Carcinogen Identification:

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This material has not been identified as a carcinogen by NTP, IARC, or OSHA. See Section 11 for carcinogenicity information of individual components, if any.

TSCA:

All components are listed on the TSCA inventory.

16. OTHER INFORMATION

Issue/Revision Date: 06-May-2004
Previous Issue Date: 5/13/2003
Product Code: 46261
Reason for revision: Formulation Change. SEE SECTION 2.
Previous Product Code: 46261, 46260, 46272
MSDS Code: 776084

Disclaimer of Expressed and Implied Warranties:

The information presented in this Material Safety Data Sheet is based on data believed to be accurate as of the date this Material Safety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.

Green Analytical Laboratories, Inc.
75 Suttle Street
Durango, CO 81303

Red Willow Production
PO Box 369
Ignacio, CO 81137
Attention: Andy Young

GAL I.D.: 610-043-01

Date Received: 10/05/06

Date Reported: 11/20/06

QC Batches:

PROJECT NAME:

PROJECT NUMBER:

SAMPLE I.D.: McElvain Comp

Sample Date: 10/05/06

Sample Matrix: Soil

Units: mg/kg

RCRA Metals

RESULTS

PARAMETER	METHOD	REPORT		DILUTION	DATE	Reg Limit
		LIMIT	RESULT		ANALYZED	ANALYST
Arsenic	6010B	10	<10	100		5.0
Barium	6010B	1.0	146	100		100.0
Cadmium	6010B	1.0	2.0	100		1.0
Chromium	6010B	1.0	5.9	100		5.0
Lead	6010B	50	6.6	100		5.0
Mercury	7471A	0.10	0.19	500		0.2
Selenium	6010B	20	<20	100		1.0
Silver	6010B	1.0	<1.0	100		5.0

For: D. Zupfeld
John Green, Laboratory Manager

Green Analytical Laboratories, Inc.
75 Suttle Street
Durango, CO 81303

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Units: mg/kg

RCRA Metals

RESULTS

PARAMETER	METHOD	REPORT		DATE	
		LIMIT	RESULT	DILUTION	ANALYZED ANALYST
Arsenic	6010B	10	<10	100	
Barium	6010B	1.0	146	100	
Cadmium	6010B	1.0	2.0	100	
Chromium	6010B	1.0	5.9	100	
Lead	6010B	50	6.6	100	
Mercury	7471A	0.10	0.19	500	
Selenium	6010B	20	<20	100	
Silver	6010B	1.0	<1.0	100	

D. Zupfeld
 For: John Green, Laboratory Manager

Green Analytical Laboratories, Inc.
75 Suttle Street
Durango, CO 81303

Red Willow Production
PO Box 369
Ignacio, CO 81137
Attention: Andy Young

PROJECT NAME:

PROJECT NUMBER:

SAMPLE I.D.: McElvain Comp

GAL I.D.: 610-043-01

Date Received: 10/05/06

Date Reported: 11/20/06

QC Balches:

Sample Date: 10/05/06

Sample Matrix: Soil

Units: mg/L

TCLP Metals

RESULTS

PARAMETER	METHOD	REPORT		DILUTION	DATE ANALYZED	ANALYST
		LIMIT	RESULT			
Arsenic	6010B	0.10	<0.10	1		
Barium	6010B	0.01	1.25	1		
Cadmium	6010B	0.01	0.01	1		
Chromium	6010B	0.01	<0.01	1		
Lead	6010B	0.05	<0.05	1		
Mercury	7470A	0.0002	<0.0002	1		
Selenium	6010B	0.20	<0.20	1		
Silver	6010B	0.01	<0.01	1		

D. Zupfeld
John Green, Laboratory Manager

Green Analytical Laboratories, Inc.**3050 METALS SRM**

LAB ID#	SRM Data			
610-043	SRM Result	True Value	SRM % Rec	Acceptance Range
PARAMETER				
Arsenic	5.10	5.00	102	90-110 %
Barium	2.45	2.50	98	90-110 %
Cadmium	2.48	2.50	99	90-110 %
Chromium	2.53	2.50	101	90-110 %
Lead	5.15	5.00	103	90-110 %
Mercury	0.0021	0.0020	105	90-110 %
Selenium	10.2	10.0	102	90-110 %
Silver	0.55	0.50	110	90-110 %

NA=Data not available

Green Analytical Laboratories, Inc.

TCLP METALS SRM

LAB ID#	SRM Data			
610-043	SRM Result	True Value	SRM % Rec	Acceptance Range
Arsenic	9.93	10.00	99.3	90-110 %
Barium	4.80	5.00	96	90-110 %
Cadmium	4.98	5.00	100	90-110 %
Chromium	2.51	2.50	100	90-110 %
Lead	10.0	10.0	100	90-110 %
Mercury	0.0019	0.0020	95	90-110 %
Selenium	9.94	10.00	99	90-110 %
Silver	0.24	0.25	96	90-110 %

NA=Data not available



CHAIN OF CUSTODY RECORD

Page 1 of 1

Client: Red Willow Production Co.

Contact: Andy Young

Address: _____

Phone Number: 970-563-5192

FAX Number: 970-563-5161

NOTES:

- 1) Ensure proper container packaging.
- 2) Ship samples promptly following collection.
- 3) Designate Sample Reject Disposition.

PO# _____

Project Name: M.E. Elusion Camp

Table 1: Matrix Type
 1 = Surface Water, 2 = Ground Water
 3 = Soil/Sediment, 4 = Rinseate, 5 = Oil
 6 = Waste, 7 = Other (Specify) _____

FOR GAL USE ONLY
 GAL JOB #
610-043

Samplers Signature: _____

Sample ID	Collection		Miscellaneous				Preservative(s)				Analyses Required	Comments	
	Date	Time	Collected by: (Init.)	Matrix Type	No. of Containers	Sample Filtered ? Y/N	Unpreserved (Ice Only)	HNO3	HCL	H2SO4			NAOH
1. M.E. Elusion Camp	10/05/06	10:02 AM		3	1		X					X - TCLP - Metals X - RCRA - Metals	
2.													
3.													
4.													
5.													
6.													
7.													
8.													
9.													
10.													

Relinquished by: Mr. [Signature] Date: 10-05-06 Time: 3:15 PM
 Received by: [Signature] Date: 10-05-06 Time: 3:15 PM

* Sample Reject: () Return () Store (30 Days)

**Certificate From Out of State Agency Authorizing
Removal of Non-exempt,
Non-hazardous Oilfield Waste
from Their Jurisdiction to New Mexico**

I have reviewed the enclosed information concerning the Non-Exempt, Non-hazardous oilfield waste material from McElvain Compressor and agree that by its description it is non-hazardous as defined by the resource Conservation & Recovery Act (RCRA) and my jurisdiction's rules, regulations or statutes.

- The Material is Non-Exempt oilfield waste.
- The Material is Non-hazardous according to total RCRA8 & TCLP Metals.

Therefore:

As a representative for the Southern Ute Indian Tribe I have no objection to the material being removed to New Mexico.

Name: [Signature]

Title: Superintendent

Date: 12/22/06

Agency Address & Phone:

BIA Southern Ute Agency
Ignacio, Colorado

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	4. Generator Universal Compression
2. Management Facility Destination JFJ Landfarm L.L.C.	5. Originating Site Horton #2B
3. Address of Facility Operator: Industrial Ecosystems Inc. P.O. Box 2043 Farmington, N.M. 87499	6. Transporter: Industrial Ecosystems Inc
7. Location of Material (Street Address or ULSTR) Sec 22 T 32N R 11W	8. State: NM
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Oil impacted soil from compressor gear box leak

Estimated Volume 4 yards Known Volume (to be entered by the operator at the end of the haul) 3 yards

SIGNATURE Aaron Blair TITLE: Manager DATE: 1/14/04
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: AJ Blair TELEPHONE NO. (505) 632-1782

030364-2

(This space for State Use)

APPROVED BY: Denny Feunt TITLE: Enviro/Engr DATE: 3/22/04
APPROVED BY: Monty Gilly TITLE: Environmental Geologist DATE: 3/30/04





NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Betty Rivera
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address <u>UNIVERSAL Comp</u>	2. Destination Name: J.F.J. Landfarm C/o Industrial Ecosystems Inc. #81 CR 3250 Aztec, NM 87410
3. Originating Site (name): <u>Hallador Petroleum LLP</u>	Location of the Waste (Street address &/or ULSTR): <u>SEC 22-T32N R11W</u>
attach list of originating sites as appropriate	<u>Horton # 2 B 2215 FNL 1640 FE1</u>
4. Source and Description of Waste <u>Comp from oil from gear box leak</u>	

I, BANDY FITZCOLL representative for:
Print Name

UNIVERSAL Compression do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

MSDS Information ___ Other (description)
___ RCRA Hazardous Waste Analysis
___ Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): [Signature]

Title: Field Foreman

Date: 1/14/04





GAL ID No.: 402-086-01

March 4, 2004

Industrial Ecosystems
PO Box 2043
Farmington, NM 87499
Attention A J Blair

Project Name:
Project Number:
Date Received: 02/26/04

This is to transmit the attached analytical report. The analytical data and information contained therein was generated using specified or selected methods contained in references, such as Standard Methods for the Examination of Water and Wastewater, 18th & 19th editions, and Methods for Determination of Organic Compounds in Drinking Water, EPA-600/4-79-020.

Samples were received by Green Analytical Laboratories, Inc. in good condition on 02/26/04.

If you should have any questions or comments regarding this report, please do not hesitate to call.

Sincerely,

John Green
Laboratory Director

Enclosure

Industrial Ecosystems
PO Box 2043
Farmington, NM 87499
Attention: A J Blair

GAL I.D.: 402-086-01
Date Received: 02/26/04
Date Reported: 03/04/04

QC Batches:

PROJECT NAME:
PROJECT NUMBER:
SAMPLE I.D.:

Horton #2B

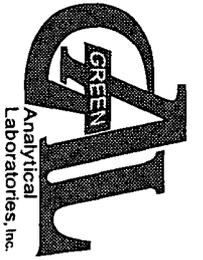
Sample Date: 02/25/04
Sample Matrix: Soil
Units: mg/L ✓

TCLP Metals

RESULTS

PARAMETER	METHOD	REPORT		DILUTION	DATE	
		LIMIT	RESULT		ANALYZED	ANALYST
Arsenic	6010B	0.10	<0.10	1	03/04/04	DF
Barium	6010B	0.01	0.91	1	03/04/04	DF
Cadmium	6010B	0.01	<0.01	1	03/04/04	DF
Chromium	6010B	0.01	0.02	1	03/04/04	DF
Lead	6010B	0.05	<0.05	1	03/04/04	DF
Mercury	7470A	0.0002	0.0009	1	03/04/04	DF
Selenium	6010B	0.20	<0.20	1	03/04/04	DF
Silver	6010B	0.01	<0.01	1	03/04/04	DF


John Green, Laboratory Manager



CHAIN OF CUSTODY RECORD

Client: I. E. I. Industrial Ecosystems, Inc.

Contact: A.J. Blair 1) Ensure proper container packaging.

Address: #81 CA, 3150 PO Box 2043 2) Ship samples promptly following collection.

Phone Number: 632-1782 Fax 87499 3 Designate Sample Reject Disposition.

FAX Number: 505-632-1871 PO#

Project Name:

Lab Name: Green Analytical Laboratories, Inc. (970) 247-4220 FAX (970) 247-4227

Address: 75 Suttle Street, Durango, CO 81303

Table 1. - Matrix Type
 1 = Surface Water, 2 = Ground Water
 3 = Soil/Sediment, 4 = Rinse, 5 = Oil
 6 = Waste, 7 = Other (Specify) _____

FOR GAL USE ONLY
 GAL JOB #
402-086

Samplers Signature: _____

Sample ID	Date	Time	Collected by: (Init.)	Miscellaneous			Preservative(s)					Analyses Required	Comments
				Matrix Type From Table 1	No. of Containers	Sample Filtered ? Y/N	Unpreserved (Ice Only)	HNO3	HCL	H2SO4	NAOH		
1. <u>Horton #28</u>	<u>3/25/04</u>		<u>AB</u>	<u>3</u>	<u>2</u>							<u>TCLP</u>	
2.													
3.													
4.													
5.													
6.													
7.													
8.													
9.													
10.													

Relinquished by: [Signature] Date: 2/26/04 Time: 11:20

Received by: [Signature] Date: 2/26/04 Time: 11:20

* Sample Reject: [] Return [] Dispose [] Store (30 Days)

[HOME] [SEARCH] [PREV LIST] [CURR LIST] [NEXT LIST] [FIRST DOC] [PREV DOC]
[CURR DOC] [NEXT DOC] [LAST DOC] [BOTTOM] [NEXT HIT] [HELP]

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to make a difference™ [Print View](#)

440693-00

440693-00 MOBIL DELVAC 1300 SUPER 15W-40
MATERIAL SAFETY DATA BULLETIN

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL [PREV HIT][NEXT HIT]DELVAC 1300 SUPER 15W-40

SUPPLIER: MOBIL OIL CORP.

NORTH AMERICA MARKETING AND REFINING

3225 GALLOWES RD.

FAIRFAX, VA 22037

24 - Hour Emergency (call collect): 609-737-4411

Product and MSDS Information: 800-662-4525 609-224-4644

CHEMTREC: 800-424-9300 202-483-7616

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: SEVERE TREAT MIN. OILS & ADDITIVES

INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

This product is not formulated to contain ingredients which have exposure limits established by U.S. agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients.

See Section 15 for European Label Information.

See Section 8 for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous.

EFFECTS OF OVEREXPOSURE: No significant effects expected.

EMERGENCY RESPONSE DATA: Brown Liquid. DOT ERG No. - NA

4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.

SKIN CONTACT: Wash contact areas with soap and water.

INHALATION: Not expected to be a problem.

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INGESTION: Not expected to be a problem. However, if greater than 1/2 liter (pint) ingested, immediately give 1 to 2 glasses of water and call a physician, hospital emergency room or poison control center for assistance. Do not induce vomiting or give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.
SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.
SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Flash Point C(F): 216(421) (ASTM D-92). Flammable limits - LEL: NA, UEL: NA.
NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Metal oxides. Elemental oxides.

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.
PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.
ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.
PERSONAL PRECAUTIONS: See Section 8

7. HANDLING AND STORAGE

HANDLING: No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.
STORAGE: Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: No special requirements under ordinary conditions of use and with adequate ventilation.
RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation.
EYE PROTECTION: Normal industrial eye protection practices should be

<http://emmsds.ihpsl.com/netacgi/nph-brs.exc?d=M.../search.html&r=2&f=G&Sect3=MRU> 01/27/2000

employed.

SKIN PROTECTION: No special equipment required. However, good personal hygiene practices should always be followed.

EXPOSURE LIMITS: This product does not contain any components which have recognized exposure limits. However, a exposure limit of 5.00 mg/m3 is suggested for oil mist.

9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE: Liquid

COLOR: Brown

ODOR: Mild

ODOR THRESHOLD-ppm: NE

pH: NA

BOILING POINT C(F): > 316(600)

MELTING POINT C(F): NA

FLASH POINT C(F): 216(421) (ASTM D-92)

FLAMMABILITY: NE

AUTO FLAMMABILITY: NE

EXPLOSIVE PROPERTIES: NA

OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-mmHg 20 C: & lt; 0.1

VAPOR DENSITY: NE

EVAPORATION RATE: NE

RELATIVE DENSITY, 15/4 C: 0.888

SOLUBILITY IN WATER: Negligible

PARTITION COEFFICIENT: > 3.5

VISCOSITY AT 40 C, cSt: 120.7

VISCOSITY AT 100 C, cSt: 15.5

POUR POINT C(F): & lt; -24(-11)

FREEZING POINT C(F): NE

VOC: & lt; 3.00 (Wt. %); 0.220 lbs/gal

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable.

CONDITIONS TO AVOID: Extreme heat.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Metal oxides. Elemental oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---

ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

INHALATION TOXICITY (RATS): Practically non toxic (LC50: greater

<http://emmsds.ihspsl.com/netacgi/nph-brs.exe?d=M.../search.html&r=2&f=G&Secf3=MRU> 01/27/2000

than 5 mg/l). ---Based on testing of similar products and/or the components.

EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). ---Based on testing of similar products and/or the components.

SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components.

---SUBCHRONIC TOXICOLOGY (SUMMARY)---

Severely solvent refined and severely hydrotreated mineral base oils have been tested at Mobil Environmental and Health Sciences Laboratory by dermal application to rats 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.

---CHRONIC TOXICOLOGY (SUMMARY)---

The base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects. These results are confirmed on a continuing basis using various screening methods such as the Mobil Modified Amos Test and IP-346.

---OTHER TOXICOLOGY DATA---

Used gasoline engine oils have shown evidence of skin carcinogenic activity in laboratory tests when no effort was made to wash the oil off between applications. Used oil from diesel engines did not produce this effect.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not established.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT.

<http://emmsds.ihpspl.com/netacgi/nph-brs.exe?d=M.../search.html&r=2&f=G&Sect3=MRU> 01/27/2000

RID/ADR: NOT REGULATED BY RID/ADR.
 IMO: NOT REGULATED BY IMO.
 IATA: NOT REGULATED BY IATA.

15. REGULATORY INFORMATION

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, and MITI.

EU Labeling: EU labeling not required.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:

This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

This product contains the following SARA (313) Toxic Release

Chemicals:

CHEMICAL NAME	CAS NUMBER	CONC.
ZINC DITHIOPHOSPHATE	68649-42-3	1.69%
The following product ingredients are cited on the lists below:		
CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
NAPHTHALENE (COMPONENT ANALYSIS) (4 lt; 0.02%)	91-20-3	22
STYRENE MONOMER (COMPONENT ANALYSIS) (0.02%)	100-42-5	22
PHENOL (COMPONENT ANALYSIS) (4 lt; 0.02%)	108-95-2	22
XYLENES (COMPONENT ANALYSIS) (4 lt; 0.02%)	1330-20-7	22
ZINC (ELEMENTAL ANALYSIS) (0.14%)	7440-66-6	22
ZINC DITHIOPHOSPHATE	68649-42-3	18, 21, 24

--- REGULATORY LISTS SEARCHED ---

1=ACGIH ALL	6=IARC 1	11=TSCA 4	16=CA P65 CARC	21=LA RTK
2=ACGIH A1	7=IARC 2A	12=TSCA 5a2	17=CA P65 REPRO	22=MI 293
3=ACGIH A2	8=IARC 2B	13=TSCA 5e	18=CA RTK	23=MN RTK
4=NTP CARC	9=OSHA CARC	14=TSCA 6	19=FL RTK	24=NJ RTK
5=NTP SUS	10=OSHA E	15=TSCA 12b	20=IL RTK	25=PA RTK
				26=RI RTK

Code key: CARC=Carcinogen; SUS=Suspected Carcinogen; REPRO=Reproductive

16. OTHER INFORMATION

USE: COMMERCIAL ENGINE OIL

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBs.

Please call the Customer Response Center on 800-662-4525 for formulation disclosure.

 For Internal Use Only: MHC: 1* 1* 0* 1* 1*, MPPEC: A, TRN: 440693-00,
 CMCS97: 970529, REQ: US - MARKETING, SAFE USE: L
 EHS Approval Date: 03JUN1999

 Legally required information is given in accordance with applicable
 information given herein is offered in good faith as accurate, but
 without guarantee. Conditions of use and suitability of the product for
 particular uses are beyond our control; all risks of use of the product
 are therefore assumed by the user and WE EXPRESSLY DISCLAIM ALL

<http://emmsds.ihpspl.com/netacgi/nph-brs.exe?d=M.../search.html&r=2&f=G&Sect3=MRU> 01/27/2000

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[HOME] [SEARCH] [PREV LIST] [CURR LIST] [NEXT LIST] [FIRST DOC] [PREV DOC]
 [CURR DOC] [NEXT DOC] [LAST DOC] [TOP] [PREV HIT] [HELP]

District I
1623 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED

MAR 22 2004
Environmental Bureau
Oil Conservation Division

Form C-138
Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	4. Generator Universal Compression
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3. Address of Facility Operator: Industrial Ecosystems Inc. P.O. Box 2043 Farmington, N.M. 87499	6. Transporter: Industrial Ecosystems Inc
7. Location of Material (Street Address or ULSTR) Sec 22 T 32N R 11W	8. State: NM
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Oil impacted soil from compressor gear box leak

Estimated Volume 4 yards Known Volume (to be entered by the operator at the end of the haul) 3 yards

SIGNATURE Aaron Blair TITLE: Manager DATE: 1/14/04
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: AJ Blair TELEPHONE NO. (505) 632-1782

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____

APPROVED BY: Marty Jilly TITLE: Environmental Geologist DATE: 3-30-04

033004-1



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Betty Rivera
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address <u>UNIVERSAL Comp</u>	2. Destination Name: J.F.J. Landfarm C/o Industrial Ecosystems Inc. #81 CR 3250 Aztec, NM 87410
3. Originating Site (name): <u>Hallador Petroleum LLP</u>	Location of the Waste (Street address &/or ULSTR): <u>SEC 22-T32N R11W</u>
attach list of originating sites as appropriate	<u>Horton #2B 2215 FNL 1640 FE1</u>
4. Source and Description of Waste <u>COMP FROM OIL FROM GEAR BOX LEAK</u>	

I, BANDY FITCHCOCK representative for:
Print Name

UNIVERSAL Compression do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste

NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information Other (description)
 RCRA Hazardous Waste Analysis
 Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): [Signature]

Title: Field Foreman

Date: 1/14/04



GAL ID No.: 402-086-01

March 4, 2004

Industrial Ecosystems
PO Box 2043
Farmington, NM 87499
Attention A J Blair

Project Name:
Project Number:
Date Received: 02/26/04

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If you should have any questions or comments regarding this report, please do not hesitate to call.

Sincerely,

John Green
Laboratory Director

Enclosure

Industrial Ecosystems
PO Box 2043
Farmington, NM 87499
Attention: A J Blair

GAL I.D.: 402-086-01
Date Received: 02/26/04
Date Reported: 03/04/04

QC Batches:

PROJECT NAME:
PROJECT NUMBER:
SAMPLE I.D.:

Horton #2B

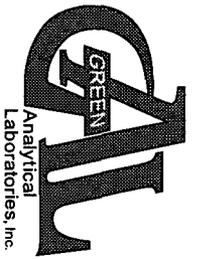
Sample Date: 02/25/04
Sample Matrix: Soil
Units: mg/L

TCLP Metals

RESULTS

PARAMETER	METHOD	REPORT		DILUTION	DATE	
		LIMIT	RESULT		ANALYZED	ANALYST
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Lead	6010B	0.05	<0.05	1	03/04/04	DF
Mercury	7470A	0.0002	0.0009	1	03/04/04	DF
Selenium	6010B	0.20	<0.20	1	03/04/04	DF
Silver	6010B	0.01	<0.01	1	03/04/04	DF


John Green, Laboratory Manager



CHAIN OF CUSTODY RECORD

Client: I. E. I. Industrial Ecosystems

1) Ensure proper container packaging.

Contact: A.J. Blair
 Address: #81 C.A. 3150 PO Box 2043 2) Ship samples promptly following collection.

Fax: 874993 3) Designate Sample Reject Disposition.

Phone Number: 632-1782

PO#

FAX Number: 505-632-1876

Project Name:

Samplers Signature:

Lab Name: Green Analytical Laboratories, Inc. (970) 247-4220 FAX (970) 247-4227

Analyses Required

Address: 75 Suttle Street, Durango, CO 81303

Sample ID	Date	Time	Collected by: (Init.)	Miscellaneous			Preservative(s)					Comments
				Matrix Type From Table 1	No. of Containers	Sample Filtered ? Y/N	Unpreserved (Ice Only)	HNO3	HCL	H2SO4	NAOH	
1. <u>Horton #28</u>	<u>3/25/04</u>		<u>AB</u>	<u>3</u>	<u>2</u>							<u>TCLP</u>
2.												
3.												
4.												
5.												
6.												
7.												
8.												
9.												
10.												

Table 1. - Matrix Type
 1 = Surface Water, 2 = Ground Water
 3 = Soil/Sediment, 4 = Rinseate, 5 = Oil
 6 = Waste, 7 = Other (Specify) _____

FOR GAL USE ONLY
 GAL JOB #
402-086

* Sample Reject: Return Dispose Store (30 Days)

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Mobil

The energy
to make a difference...

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440693-00

440693-00 MOBIL DELVAC 1300 SUPER 15W-40
MATERIAL SAFETY DATA BULLETIN

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL [PREV HIT][NEXT HIT]DELVAC 1300 SUPER 15W-40

SUPPLIER: MOBIL OIL CORP.

NORTH AMERICA MARKETING AND REFINING

3225 GALLOWS RD.

FAIRFAX, VA 22037

24 - Hour Emergency (call collect): 609-737-4411

Product and MSDS Information:

800-662-4525

609-224-4644

CHEMTREC:

800-424-9300

202-483-7616

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: SEVERE TREAT MIN. OILS & ADDITIVES

INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

This product is not formulated to contain ingredients which have exposure limits established by U.S. agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients.

See Section 15 for European Label Information.

See Section 8 for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous.

EFFECTS OF OVEREXPOSURE: No significant effects expected.

EMERGENCY RESPONSE DATA: Brown Liquid. DOT ERG No. - NA

4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.

SKIN CONTACT: Wash contact areas with soap and water.

INHALATION: Not expected to be a problem.

http://emmsds.ihpspl.com/netacgi/nph-brs_exc?d=M.../search.html&r=2&f=G&Sect3=MRU 01/27/2000

INGESTION: Not expected to be a problem. However, if greater than 1/2 liter (pint) ingested, immediately give 1 to 2 glasses of water and call a physician, hospital emergency room or poison control center for assistance. Do not induce vomiting or give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.
SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.
SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Flash Point C(F): 216(421) (ASTM D-92). Flammable limits - LEL: NA, UEL: NA.
NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Metal oxides. Elemental oxides.

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.
PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.
ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.
PERSONAL PRECAUTIONS: See Section 8

7. HANDLING AND STORAGE

HANDLING: No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.
STORAGE: Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: No special requirements under ordinary conditions of use and with adequate ventilation.
RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation.
EYE PROTECTION: Normal industrial eye protection practices should be

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employed.

SKIN PROTECTION: No special equipment required. However, good personal hygiene practices should always be followed.

EXPOSURE LIMITS: This product does not contain any components which have recognized exposure limits. However, a exposure limit of 5.00 mg/m³ is suggested for oil mist.

9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE: Liquid

COLOR: Brown

ODOR: Mild

ODOR THRESHOLD-ppm: NE

pH: NA

BOILING POINT C(F): > 316(600)

MELTING POINT C(F): NA

FLASH POINT C(F): 216(421) (ASTM D-92)

FLAMMABILITY: NE

AUTO FLAMMABILITY: NE

EXPLOSIVE PROPERTIES: NA

OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-mmHg 20 C: & lt; 0.1

VAPOR DENSITY: NE

EVAPORATION RATE: NE

RELATIVE DENSITY, 15/4 C: 0.888

SOLUBILITY IN WATER: Negligible

PARTITION COEFFICIENT: > 3.5

VISCOSITY AT 40 C, cSt: 120.7

VISCOSITY AT 100 C, cSt: 15.5

POUR POINT C(F): & lt; -24(-11)

FREEZING POINT C(F): NE

VOC: & lt; 3.00 (Wt. %); 0.220 lbs/gal

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable.

CONDITIONS TO AVOID: Extreme heat.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Metal oxides. Elemental oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---

ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

INHALATION TOXICITY (RATS): Practically non toxic (LC50: greater

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than 5 mg/l). ---Based on testing of similar products and/or the components.

EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). ---Based on testing of similar products and/or the components.

SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components.

---SUBCHRONIC TOXICOLOGY (SUMMARY)---

Severely solvent refined and severely hydrotreated mineral base oils have been tested at Mobil Environmental and Health Sciences Laboratory by dermal application to rats 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.

---CHRONIC TOXICOLOGY (SUMMARY)---

The base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects. These results are confirmed on a continuing basis using various screening methods such as the Mobil Modified Ames Test and IP-346.

---OTHER TOXICOLOGY DATA---

Used gasoline engine oils have shown evidence of skin carcinogenic activity in laboratory tests when no effort was made to wash the oil off between applications. Used oil from diesel engines did not produce this effect.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not established.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT.

<http://emmsds.ihpspl.com/netacgi/nph-brs.exe?d=M.../search.html&r=2&f=G&Sect3=MRU> 01/27/2000

WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. Nothing is intended as a recommendation for uses which infringe valid patents or as extending any license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Use or re-transmission of the information contained herein in any other format than the format as presented is strictly prohibited. Mobil neither represents nor warrants that the format, content or product formulas contained in this document comply with the laws of any other country except the United States of America.

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**Industrial Ecosystems Inc.
Soil Reclamation Center**

P.O. Box 2043
Farmington, NM 87499

Phone: (505) 632-1782
Fax: (505) 632-1876

#81 CR 3150
Aztec, NM 87410

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March 15, 2004

MAR 22 2004

Martyne, OIL CONSERVATION
DIVISION

Here is the corrected C-138 for Universal Compression. I have included the results from the TCLP test.

Thanks,

AJ Blair
Industrial Ecosystems Inc
(505) 632-1782

A handwritten signature in black ink, appearing to read "AJ Blair".

Cc: Denny Foust

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
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State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

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Oil Conservation Division

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District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

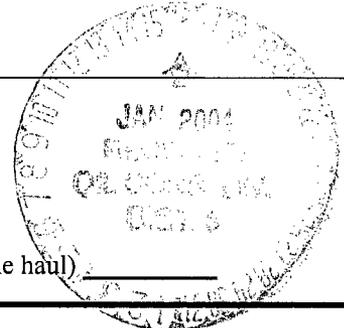
1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	4. Generator Northstar Oil and Gas
2. Management Facility Destination JFJ Landfarm L.L.C.	5. Originating Site Federal Strat Test C-1C
3. Address of Facility Operator: Industrial Ecosystems Inc. P.O. Box 2043 Farmington, N.M. 87499	6. Transporter: CF&M
7. Location of Material (Street Address or ULSTR) B Section 35, 24 N, 11 W	8. State: NM
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; <u>one certificate per job.</u> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:
Drilling Mud

Estimated Volume 80 BBLs Known Volume (to be entered by the operator at the end of the haul) _____

SIGNATURE AJ Blair TITLE: Manager DATE: 1/2/04
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: AJ Blair TELEPHONE NO. (505) 632-1782



(This space for State Use)

APPROVED BY: <u>Denny Feat</u>	TITLE: <u>Enviro/Engr</u>	DATE: <u>1/16/04</u>
APPROVED BY: <u>Chas Neenan</u>	TITLE: <u>Deputy O&E ins</u>	DATE: <u>1/16/04</u>

Martynne Kieling

1/16/04

This is some of the material going to J.F.J; we may be getting more liquid than anything else. I don't have a solution, it has to go somewhere but we need a level playing field for all land farm operations.

MJK

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1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

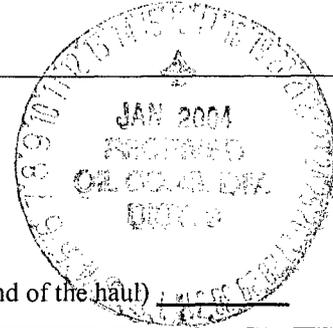
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		4. Generator Basin Disposal
2. Management Facility Destination: JFJ Landfarm L.L.C.		5. Originating Site Basin Disposal
3. Address of Facility Operator: Industrial Ecosystems Inc. P.O. Box 2043 Farmington, N.M. 87499		6. Transporter: Basin Disposal
7. Location of Material (Street Address or ULSTR) 200 Montana Ave Bloomfield NM 87413		8. State: NM
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.		

BRIEF DESCRIPTION OF MATERIAL:
BS & W from settling pond



Estimated Volume 2000 BBLS Known Volume (to be entered by the operator at the end of the haul) _____

SIGNATURE AJ Blair TITLE: Manager DATE: 1/1/04
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: AJ Blair TELEPHONE NO. (505) 632-1782

(This space for State Use)

APPROVED BY: Denny Peart TITLE: Enviro/Engk DATE: 1/16/04
APPROVED BY: Chad TITLE: Deputy O&E ins DATE: 1/16/04

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Santa Fe, NM 87505

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	4. Generator BP
2. Management Facility Destination JFJ Landfarm L.L.C.	5. Originating Site Fields A2A
3. Address of Facility Operator: Industrial Ecosystems Inc. P.O. Box 2043 Farmington, N.M. 87499	6. Transporter: Scat Hotwash
7. Location of Material (Street Address or ULSTR) Sec 25, T 32N, R11W	8. State: NM
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; <u>one certificate per job.</u> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:
Hydrocarbon contaminated frac fluid and sand

Estimated Volume 60 BBLs Known Volume (to be entered by the operator at the end of the haul) _____

SIGNATURE AJ Blair TITLE: Manager DATE: 1/12/04
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: AJ Blair TELEPHONE NO. (505) 632-1782

(This space for State Use)

APPROVED BY: Derry Kent TITLE: Enviro/Engr DATE: 1/16/04
APPROVED BY: Chas R TITLE: Deputy Dir DATE: 1/16/04

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1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	4. Generator BP
2. Management Facility Destination JFJ Landfarm L.L.C.	5. Originating Site Sitton Water Disposal
3. Address of Facility Operator: Industrial Ecosystems Inc. P.O. Box 2043 Farmington, N.M. 87499	6. Transporter: Scat Hotwash
7. Location of Material (Street Address or ULSTR) 1235 Village E Drive Bayfield Colorado 81122	8. State: NM
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:
Tank bottom sludge and water used to clean the tank bottoms

Estimated Volume 80 BBLs Known Volume (to be entered by the operator at the end of the haul) _____

SIGNATURE AJ Blair TITLE: Manager DATE: 1/07/04
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: AJ Blair TELEPHONE NO. (505) 632-1782

(This space for State Use)

APPROVED BY: W. J. Jent TITLE: Enviro/ Engr DATE: 1/16/04
APPROVED BY: Chad H. P. TITLE: Deputy Adm. Dir. DATE: 1/16/04

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1625 N. French Dr., Hobbs, NM 88240
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	4. Generator Burlington Resources
2. Management Facility Destination JFJ Landfarm L.L.C.	5. Originating Site McGrath SWD #4
3. Address of Facility Operator: Industrial Ecosystems Inc. P.O. Box 2043 Farmington, N.M. 87499	6. Transporter: Riley Industrial
7. Location of Material (Street Address or ULSTR) SW; S34; T30N;R12W	8. State: NM
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:
Tank bottom sludge and water used to clean the tank bottoms

Estimated Volume 800 BBLS Known Volume (to be entered by the operator at the end of the haul) 0

SIGNATURE AJ Blair TITLE: Manager DATE: 1/06/04
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: AJ Blair TELEPHONE NO. (505) 632-1782

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APPROVED BY: <u>Dennis Ferris</u>	TITLE: <u>Enviro/Engr</u>	DATE: <u>1/16/04</u>
APPROVED BY: <u>Charles R. ...</u>	TITLE: <u>Deputy Dir</u>	DATE: <u>1/16/04</u>

District I
1625 N. French Dr., Hobbs, NM 88240
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OIL CONSERVATION DIVISION

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/> ¹³ Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	4. Generator Universal Compression
2. Management Facility Destination: JFJ Landfarm L.L.C.	5. Originating Site Masden Gas Com #1
3. Address of Facility Operator: Industrial Ecosystems Inc. P.O. Box 2043 Farmington, N.M. 87499	6. Transporter: 3D Services
7. Location of Material (Street Address or ULSTR) Sec 28 T 29N R 11W	8. State: NM
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; <u>one certificate per job.</u> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:
Compressor oil impacted soil from gear box leak

Estimated Volume 46 yards Known Volume (to be entered by the operator at the end of the haul) _____

SIGNATURE AJ Blair TITLE: Manager DATE: 1/13/04
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: AJ Blair TELEPHONE NO. (505) 632-1782

1-4009229

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APPROVED BY: Deny Feun TITLE: Enviro/Engr DATE: 2/17/03
APPROVED BY: DENIED TITLE: _____ DATE: _____

Note this is from the gear box and probably will require additional testing



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Betty Rivera
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address UNIVERSAL Comp	2. Destination Name: J.F.J. Landfarm C/o Industrial Ecosystems Inc. #81 CR 3250 Aztec, NM 87410
3. Originating Site (name): HALLADOR Petroleum LLP	Location of the Waste (Street address &/or ULSTR): SEC 22-T32N R11W
attach list of originating sites as appropriate	Horton #2B 2215 FNL 1640 FE1
4. Source and Description of Waste comp from oil from gear box leak	

I, **RANDY HITCHCOCK** representative for :
Print Name

UNIVERSAL Compression do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste

NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information ___ Other (description)
___ RCRA Hazardous Waste Analysis
___ Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): **[Signature]**

Title: **Field Foreman**

Date: **1/14/04**

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[CURR DOC] [NEXT DOC] [LAST DOC] [BOTTOM] [NEXT HIT] [HELP]

Mobil

The energy
to make a difference™

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440693-00

440693-00 MOBIL DELVAC 1300 SUPER 15W-40
MATERIAL SAFETY DATA BULLETIN

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL [PREV HIT][NEXT HIT]DELVAC 1300 SUPER 15W-40

SUPPLIER: MOBIL OIL CORP.

NORTH AMERICA MARKETING AND REFINING

3225 GALLOWES RD.

FAIRFAX, VA 22037

24 - Hour Emergency (call collect): 609-737-4411

Product and MSDS Information:

800-662-4525

609-224-4644

CHEMTREC:

800-424-9300

202-483-7616

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: SEVERE TREAT MIN. OILS & ADDITIVES

INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:

This product is not formulated to contain ingredients which have exposure limits established by U.S. agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients.

See Section 15 for European Label Information.

See Section 8 for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous.

EFFECTS OF OVEREXPOSURE: No significant effects expected.

EMERGENCY RESPONSE DATA: Brown Liquid. DOT ERG No. - NA

4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.

SKIN CONTACT: Wash contact areas with soap and water.

INHALATION: Not expected to be a problem.

http://emmsds.ihpspl.com/netacgi/nph-brs_exc?d=M.../search.html&f=2&f=G&Sect3=MRU 01/27/2000

INGESTION: Not expected to be a problem. However, if greater than 1/2 liter (pint) ingested, immediately give 1 to 2 glasses of water and call a physician, hospital emergency room or poison control center for assistance. Do not induce vomiting or give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.
SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.
SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Flash Point C(F): 216(421) (ASTM D-92). Flammable limits - LEL: NA, UEL: NA.
NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Metal oxides. Elemental oxides.

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.
PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.
ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.
PERSONAL PRECAUTIONS: See Section 8

7. HANDLING AND STORAGE

HANDLING: No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.
STORAGE: Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: No special requirements under ordinary conditions of use and with adequate ventilation.
RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation.
EYE PROTECTION: Normal industrial eye protection practices should be

<http://emmsds.ihpspl.com/netacgi/nph-brs.exe?d=M.../search.html&r=2&f=G&Sect3=MRU> 01/27/2000

employed.

SKIN PROTECTION: No special equipment required. However, good personal hygiene practices should always be followed.

EXPOSURE LIMITS: This product does not contain any components which have recognized exposure limits. However, a exposure limit of 5.00 mg/m3 is suggested for oil mist.

9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE: Liquid

COLOR: Brown

ODOR: Mild

ODOR THRESHOLD-ppm: NE

pH: NA

BOILING POINT C(F): > 316(600)

MELTING POINT C(F): NA

FLASH POINT C(F): 216(421) (ASTM D-92)

FLAMMABILITY: NE

AUTO FLAMMABILITY: NE

EXPLOSIVE PROPERTIES: NA

OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-mmHg 20 C: & lt; 0.1

VAPOR DENSITY: NE

EVAPORATION RATE: NE

RELATIVE DENSITY, 15/4 C: 0.888

SOLUBILITY IN WATER: Negligible

PARTITION COEFFICIENT: > 3.5

VISCOSITY AT 40 C, cSt: 120.7

VISCOSITY AT 100 C, cSt: 15.5

POUR POINT C(F): & lt; -24(-11)

FREEZING POINT C(F): NE

VOC: & lt; 3.00 (Wt. %); 0.220 lbs/gal

NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable.

CONDITIONS TO AVOID: Extreme heat.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Metal oxides.

Elemental oxides.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---

ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.

INHALATION TOXICITY (RATS): Practically non toxic (LC50: greater

<http://emnsds.ihpspl.com/netacgi/nph-brs.exe?d=M.../search.html&r=2&f=G&Sect.3=MRU> 01/27/2000

than 5 mg/l). ---Based on testing of similar products and/or the components.

EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). ---Based on testing of similar products and/or the components.

SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components.

---SUBCHRONIC TOXICOLOGY (SUMMARY)---

Severely solvent refined and severely hydrotreated mineral base oils have been tested at Mobil Environmental and Health Sciences Laboratory by dermal application to rats 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.

---CHRONIC TOXICOLOGY (SUMMARY)---

The base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects. These results are confirmed on a continuing basis using various screening methods such as the Mobil Modified Ames Test and IP-346.

---OTHER TOXICOLOGY DATA---

Used gasoline engine oils have shown evidence of skin carcinogenic activity in laboratory tests when no effort was made to wash the oil off between applications. Used oil from diesel engines did not produce this effect.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not established.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT.

<http://emmsds.ihspsl.com/netacgi/nph-brs.exe?d=M.../search.html&r=2&f=G&Sect3=MRU> 01/27/2000

RID/ADR: NOT REGULATED BY RID/ADR.
IMO: NOT REGULATED BY IMO.
IATA: NOT REGULATED BY IATA.

15. REGULATORY INFORMATION

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, and MITI.
EU Labeling: EU labeling not required.
U.S. Superfund Amendments and Reauthorization Act (SARA) Title III: This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".
SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.
This product contains the following SARA (313) Toxic Release Chemicals:

CHEMICAL NAME	CAS NUMBER	CONC.
ZINC DITHIOPHOSPHATE	68649-42-3	1.69%

The following product ingredients are cited on the lists below:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
NAPHTHALENE (COMPONENT ANALYSIS) (4 lt; 0.02%)	91-20-3	22
STYRENE MONOMER (COMPONENT ANALYSIS) (0.02%)	100-42-5	22
PHENOL (COMPONENT ANALYSIS) (4 lt; 0.02%)	108-95-2	22
XYLENES (COMPONENT ANALYSIS) (4 lt; 0.02%)	1330-20-7	22
ZINC (ELEMENTAL ANALYSIS) (0.14%)	7440-66-6	22
ZINC DITHIOPHOSPHATE	68649-42-3	18, 21, 24

--- REGULATORY LISTS SEARCHED ---

- 1=ACGIH ALL 6=IARC 1 11=TSCA 4 16=CA P65 CARC 21=LA RTK
- 2=ACGIH A1 7=IARC 2A 12=TSCA 5a2 17=CA P65 REPRO 22=MI 293
- 3=ACGIH A2 8=IARC 2B 13=TSCA 5e 18=CA RTK 23=MN RTK
- 4=NTP CARC 9=OSHA CARC 14=TSCA 6 19=FL RTK 24=NJ RTK
- 5=NTP SUS 10=OSHA Z 15=TSCA 12b 20=IL RTK 25=PA RTK
- 26=RI RTK

Code key: CARC=Carcinogen; SUS=Suspected Carcinogen; REPRO=Reproductive

16. OTHER INFORMATION

USE: COMMERCIAL ENGINE OIL

NOTE: MOBIL PRODUCTS ARE NOT FORMULATED TO CONTAIN PCBS.

Please call the Customer Response Center on 800-662-4525 for formulation disclosure.

For Internal Use Only: MHC: 1* 1* 0* 1* 1*, MPPEC: A, TRN: 440693-00, CMCS97: 970529, REQ: US - MARKETING, SAFE USE: L
EHS Approval Date: 03JUN1999

Legally required information is given in accordance with applicable Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and WE EXPRESSLY DISCLAIM ALL

WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. Nothing is intended as a recommendation for uses which infringe valid patents or as extending any license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Use or re-transmission of the information contained herein in any other format than the format as presented is strictly prohibited. Mobil neither represents nor warrants that the format, content or product formulas contained in this document comply with the laws of any other country except the United States of America.

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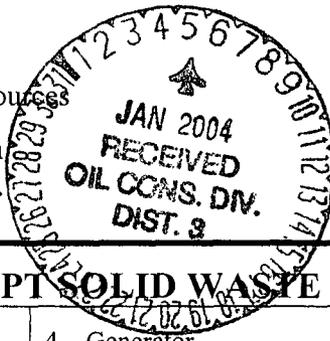
[\[HOME\]](#) [\[SEARCH\]](#) [\[PREV LIST\]](#) [\[CURR LIST\]](#) [\[NEXT LIST\]](#) [\[FIRST DOC\]](#) [\[PREV DOC\]](#)
[\[CURR DOC\]](#) [\[NEXT DOC\]](#) [\[LAST DOC\]](#) [\[TOP\]](#) [\[PREV HIT\]](#) [\[HELP\]](#)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

RECEIVED

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505



Form C-138
Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

OIL CONSERVATION
DIVISION

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

<p>1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/></p> <p>Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/></p>	<p>4. Generator El Paso Field Services Co 614 Reilly Ave Farmington NM 87401</p> <p>5. Originating Site Chaco Plant</p>
<p>2. Management Facility Destination: JFJ Landfarm L.L.C.</p>	<p>6. Transporter: M&R</p>
<p>3. Address of Facility Operator: Industrial Ecosystems Inc. P.O. Box 2043 Farmington, N.M. 87499</p>	<p>8. State: NM</p>
<p>7. Location of Material (Street Address or ULSTR) SW/4 Section 16, T26N, R12W, San Juan Co., NM</p>	
<p>9. Circle One:</p> <p>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.</p> <p>B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved</p> <p>All transporters must certify the wastes delivered are only those consigned for transport.</p>	

BRIEF DESCRIPTION OF MATERIAL:

Spent phosphoric acid from fin-fan cooler cleaning - neutralized with liquid caustic soda

Estimated Volume 320 BBLs Known Volume (to be entered by the operator at the end of the haul) _____

SIGNATURE AJ Blair TITLE: Manager DATE: 1/02/04
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: AJ Blair TELEPHONE NO. (505) 632-1782

(This space for State Use)

APPROVED BY: Denny Feunt TITLE: Enviro/Engr DATE: 1/08/04

APPROVED BY: Monty Ghy TITLE: Environmental Geology Sr DATE: 1/12/04

I approved this to go to JFJ and it probably should have gone to Key. Key transport only remains a problem

1-492110



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

Post-It® Fax Note	7671	Date	1/2/04	# of pages	2
To	A.J.	From	David Bays		
Co./Dept.	Industrial Ecosystems	Co.	EPES		
Phone #		Phone #	599-2256		
Fax #	632-1876	Fax #	599-2284		

BILL RICHARDSO
Governor
Joanna Prukop
Cabinet Secretary

Tri Wrotenbery
Director
Conservation Division

CERTIFICATE OF WASTE STATUS



1. Generator Name and Address: El Paso Field Services Co. 614 Reilly Avenue Farmington, NM 87401	2. Destination Name: Envirotech Soil Remediation Facility Landfarm #2 Hilltop, New Mexico
3. Originating Site (name): Chaco Plant	Location of Waste (Street address &/or ULSTR): SW/4 Section 16, T26N, R12W, San Juan Co., NM
attach list of originating sites as appropriate	
4. Source and Description of Waste Spent phosphoric acid from fin-fan cooler cleaning - neutralized with liquid caustic soda	

I, David Bays representative for:
 Print Name

El Paso Field Services Co. do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988 regulatory determination, the above described waste is:
 (Check appropriate classification)

EXEMPT Oilfield waste NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-hazardous waste defined above.

For NON-EXEMPT waste only, the following documentation is attached (check appropriate items):

- MSDS Information Other (description)
- RCRA Hazardous Waste Analysis
- Chain of Custody

This Waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): David Bays
 Title: Principal Environmental Scientist
 Date: January 2, 2004



Sierra Chemicals L.C.
 104 Bison Trail Aztec N.M. 87410
 Phone (505)-334-6449 Fax (505)-334-9530

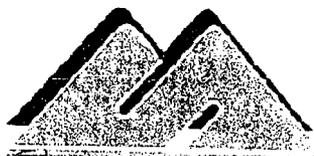
TECHNICAL ANALYSIS

Date: 1/2/04	Sierra Rep: J.M.	Code: 10100875
Sampling Point/Date: Tank Valve 12/30/03		State: New Mexico
Company: El Paso - Chaco Plant		County: San Juan
Formation: N.A.	Lease:	Well:

Description: Waste Water pH Testing

Identification:	pH #1	6.8
	pH #2	7.2
	pH #3	6.9

Remarks: Sierra Chemicals ran three pH tests one hour apart as the waste water was being circulated. The average of the 3 tests is a pH = 6.96



SIERRA CHEMICALS L.C.

Sierra Chemicals L.C.
104 Bison Trail Aztec N.M. 87410
Phone (505)-334-6449 Fax (505)-334-9530

TECHNICAL ANALYSIS

Date: 1/2/04 Sierra Rep: J.M.

Sampling Point/Date: Tank Valve 12/30/03

Company: El Paso - Chaco Plant

Formation: N.A.

Lease:

Code: 10100875

State: New Mexico

County: San Juan

Well:

Description: Waste Water pH Testing

Identification: pH #1 6.8

pH #2 7.2

pH #3 6.9

Remarks: Sierra Chemicals ran three pH tests one hour apart as the waste water was being circulated. The average of the 3 tests is a pH = 6.96

ATTN: Dave @ Seirra Chem

Material Safety Data Sheet

Material Name: Sodium Hydroxide (Caustic Soda)

ID: C1-142

***** Section 1 - Chemical Product and Company Identification *****

Part Number: Technical Flake, Micropearls, and Beads

Chemical Name: Sodium Hydroxide (Caustic Soda)

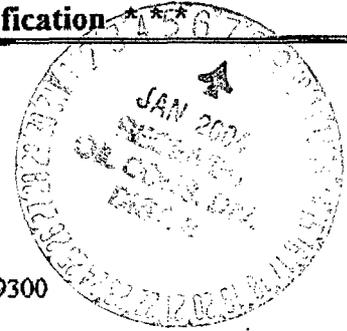
Product Use: For Commercial Use

Synonyms: Caustic soda; Sodium hydrate; Lye; White caustic; Liquid caustic 25%¹⁰

Manufacturer Information

Chem One Corporation (Importer of record)
15150 Sommermyer, Suite 100
Houston, Texas 77041-5308

Phone: (713) 896-9966
Fax: (713) 896-7540
Emergency # 1-800-424-9300



General Comments

NOTE: Emergency telephone numbers are to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to customer service.

***** Section 2 - Composition / Information on Ingredients *****

CAS #	Component	Percent
1310-73-2	Sodium Hydroxide	98-100

Component Information/Information on Non-Hazardous Components

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

***** Section 3 - Hazards Identification *****

Emergency Overview

Product is a white, non-volatile solid available in flake, micropearl, and bead form. Corrosive. May cause severe burns to eyes and skin. Causes respiratory tract irritation. Harmful or fatal if swallowed. Contact with water may generate heat and ignite combustible materials. Sodium hydroxide is one of the strongest alkaline caustics, and can react violently when in contact with many other substances. Keep away from water, strong acids, metals, organohalogen compounds, and nitro and chloro organic compounds.

Hazard Statements

DANGER -- CORROSIVE. CAUSES SEVERE IRRITATION AND BURNS TO THE EYES, SKIN, AND DIGESTIVE TRACT. CAUSES RESPIRATORY TRACT IRRITATION. MAY BE FATAL IF SWALLOWED. Do not get in eyes, on skin, or on clothing. Do not breathe dust or mist. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation. Keep away from water, strong acids, metals, organohalogen compounds, and nitro and chloro organic compounds.

Potential Health Effects: Eyes

Corrosive to eyes. Contact of the solid or concentrated liquid with the eyes can disintegrate the corneal and conjunctival epithelia and cause corneal opacification. Symptoms can include scarring, blistering, ulceration, clouding of the eye tissue, and blindness. Delayed effects may include glaucoma and cataracts.

Potential Health Effects: Skin

Corrosive to the skin. Can cause severe burns, ulceration and permanent scarring. Damage to skin may not be apparent until many hours following exposure.

Potential Health Effects: Ingestion

Harmful or fatal if swallowed. Ingestion causes severe irritation of the mouth, throat, and esophagus. Symptoms may include burning pain, vomiting, diarrhea, hypersalivation, shortness of breath, potential glottic edema with respiratory compromise, collapse and possibly death. Concentrated solutions can cause perforation of the stomach or gastrointestinal tract and corrosion and necrosis of the lips, mouth, tongue, pharynx, esophagus, and gastric mucosa.

Potential Health Effects: Inhalation

May cause irritation or inflammation of the nose, throat, and lungs. Inhalation of the aerosol may cause fluid accumulation in the lungs. Effects of inhalation may be delayed. Overexposure may cause ulceration of nasal passages. Chronic overexposure may cause obstructive airway disease.

HMIS Ratings: Health: 3 Fire: 0 Reactivity: 1 Pers. Prot.: chemical goggles/face shield, impervious gloves, apron

Material Safety Data Sheet**Material Name: Sodium Hydroxide (Caustic Soda)****ID: CI-142**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

***** Section 4 - First Aid Measures *******First Aid: Eyes**

Immediately flush the contaminated eye with plenty of water for 15 minutes. If irritation persists, seek medical advice immediately.

First Aid: Skin

Superficial irrigation of the burn is helpful only if begun immediately after exposure. Immediately irrigate exposed skin with copious amounts of water for at least 15 minutes or longer, depending on the concentration, amount, and duration of exposure. Seek medical advice. Completely decontaminate clothing, shoes, and leather goods before reuse. SEVERE BURNS CAN OCCUR EVEN WITH DILUTE SOLUTIONS IF THE TISSUE IS NOT PROMPTLY DECONTAMINATED.

First Aid: Ingestion

Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Immediately give 4 to 8 ounces of water or milk. Obtain medical advice immediately.

First Aid: Inhalation

If symptoms are experienced, remove source of contamination or move victim to fresh air. If the affected person is not breathing, apply artificial respiration. If symptoms persist, obtain medical advice immediately.

First Aid: Notes to Physician

Provide general supportive measures. Prolonged skin irrigation may be required in severe cases, occasionally up to 12 to 24 hours. Debridement of the burn and skin grafting are more successful if performed early, and may prevent delayed necrosis.

***** Section 5 - Fire Fighting Measures *******Flash Point:** Not applicable**Upper Flammable Limit (UFL):** Not applicable**Auto Ignition:** Not available**Rate of Burning:** Not applicable**General Fire Hazards**

Product will not burn or support combustion. Water reactive. If in contact with moisture or water, this product can create a considerable amount of heat and ignite combustible materials.

Hazardous Combustion Products

Fire may produce irritating, corrosive and/or toxic gases. Some are oxidizers and may ignite combustibles. Can produce flammable hydrogen gas upon reaction with most metals. When heated to decomposition, it emits toxic fumes of sodium oxide, peroxides, or carbonates.

Extinguishing Media

Use any method suitable for surrounding fire. Water can be used to extinguish fire as long as the water does not come into contact with the sodium hydroxide. Use water spray to keep fire-exposed containers cool.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus. Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution. Sodium hydroxide can melt and flow when heated.

NFPA Ratings: Health: 3 Fire: 0 Reactivity: 1 Other:

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

***** Section 6 - Accidental Release Measures *******Containment Procedures**

Stop or reduce leak if safe to do so.

Clean-Up Procedures

Eliminate all ignition sources. Prevent material from entering sewers or waterways. Put material in suitable, covered, labeled containers.

Evacuation Procedures

Keep unnecessary personnel away. Close off area.

Material Safety Data Sheet

Material Name: Sodium Hydroxide (Caustic Soda)

ID: CJ-142

Special Procedures

Wear adequate personal protective equipment. Do not allow the material to contact eyes, skin, or clothing. Do not inhale dusts. Ventilate the area.

*** Section 7 - Handling and Storage ***

Handling Procedures

Avoid generation of dusts. Do not inhale dusts. Do not allow product to contact eyes, skin, or clothing. Use in designated areas with adequate ventilation. Use caution when preparing solutions as large amounts of heat may evolve. Solutions are extremely corrosive. Keep in air-tight containers. Wash hands thoroughly after handling. Do not reuse the empty container.

Storage Procedures

Store in a cool, dry, well-ventilated area. Store in suitable labeled containers. Solutions are extremely corrosive. Keep the container tightly closed -- product rapidly absorbs carbon dioxide and water from the air. Containers of nickel alloys are preferred.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines

A: General Product Information

Follow the ACGIH recommended exposure limits.

B: Component Exposure Limits

Sodium Hydroxide (1310-73-2)

ACGIH: C 2 mg/m³

OSHA: C 2 mg/m³

NIOSH: C 2 mg/m³

Engineering Controls

Use general mechanical ventilation. Local exhaust is suggested for use, where possible, in enclosed or confined spaces.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Chemical goggles, and a face shield if splashing is possible.

Personal Protective Equipment: Skin

Wear appropriate work gloves for type of operation. Neoprene or polyvinyl chloride gloves are recommended. Gloves should be tested to determine their suitability for prolonged contact with this material. Use of protective coveralls and long sleeves is recommended.

Personal Protective Equipment: Respiratory

If airborne concentrations are above the applicable exposure limits, use NIOSH-approved respiratory protection.

Personal Protective Equipment: General

Eyewash fountains and emergency showers are required. Use good hygiene practices when handling this material including changing and laundering work clothing after use.

*** Section 9 - Physical & Chemical Properties ***

Appearance:	White	Odor:	Odorless
Physical State:	Solid	pH:	14 (5% solution)
Vapor Pressure:	Zero	Vapor Density:	Not applicable
Boiling Point:	2534 deg F (1390 deg C) (a) 760 mmHg	Melting Point:	605.1 deg F (318.4 deg C)
Solubility (H₂O):	1 g dissolves in 0.9 ml water	Specific Gravity:	2.130 (@ 20 deg C (water=1))
Freezing Point:	Not applicable	Particle Size:	Not determined
Softening Point:	Not applicable	Bulk Density:	Not available
Molecular Weight:	40.01		

Material Safety Data Sheet

Material Name: Sodium Hydroxide (Caustic Soda)

ID: C1-142

Physical Properties: Additional Information

The data provided in this section is to be used for product safety handling purposes. Please refer to Product Data Sheets, Certificates of Conformity or Certificates of Analysis for chemical and physical data for determinations of quality and for formulation purposes.

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

Stable.

Chemical Stability: Conditions to Avoid

Avoid contact with moisture, water, and all other incompatible materials listed in Section 10.

Incompatibility

Acids - may react violently.

Water - reaction may generate enough heat to ignite combustible materials.

Metals (such as aluminum, tin and zinc) - reaction may produce flammable and explosive hydrogen gas.

Organohalogen compounds - may react to form spontaneously combustible compounds.

Nitro and chloro organic compounds - may react explosively.

Aluminum + arsenic compounds - form the poisonous gas arsine.

1,2,4,5-tetrachlorobenzene - vigorous reaction, forms extremely toxic 2,3,7,8-tetrachlorodibenzodioxin.

Potentially explosive reaction with bromine; 4-chlorobutyronitrile; 4-chloro-2-methylphenol (in storage); nitrobenzene + heat; sodium tetrahydroborate; 2,2,2-trichloroethanol; zirconium + heat.

Reacts to form explosive products with ammonia + silver nitrate, and trichloroethylene.

Under certain conditions of temperature and pressure it can ignite or react violently with acetic acid; acetaldehyde; acetic anhydride; acrolein; acrylonitrile; allyl alcohol; allyl chloride; aluminum; chloroform + methanol; hydrochloric acid;

hydrofluoric acid; maleic anhydride; nitric acid; oleum; phosphorous; sulfuric acid; diborane + octanol oxime;

hydroquinone; 4-methyl-2-nitrophenol; and cinnamaldehyde.

Hazardous Decomposition

Fire may produce irritating, corrosive and/or toxic gases. Some are oxidizers and may ignite combustibles. Can produce flammable hydrogen gas upon reaction with most metals. When heated to decomposition, it emits toxic fumes of sodium oxide, peroxides, or carbonates.

Hazardous Polymerization

Will not occur.

Material Safety Data Sheet

Material Name: Sodium Hydroxide (Caustic Soda)

ID: C1-142

*** Section 11 - Toxicological Information ***

Acute and Chronic Toxicity

A: General Product Information

Sodium hydroxide is one of the strongest alkaline caustics. Sodium hydroxide is a strong irritant and is corrosive to the skin, eyes, and mucous membranes. It can cause severe burns and permanent damage to any tissue with which it comes in contact. The severity of the tissue damage caused by sodium hydroxide is a function of its concentration, the length of tissue contact time, and local conditions and skin type. Severe burns to skin can occur even with dilute solutions if the tissue is not promptly decontaminated. Can cause severe burns, ulceration and permanent scarring. Damage to skin may not be immediately apparent, and may be latent in onset due to formation of alkaline albuminates and fatty soaps in the tissue. When sodium hydroxide comes into contact with the skin it does not usually cause immediate pain, but it does cause immediate damage. Contact of the solid or concentrated liquid with the eyes can disintegrate the corneal and conjunctival epithelia and cause corneal opacification. Symptoms can include scarring, blistering, ulceration, clouding of the eye tissue and blindness. Delayed effects may include glaucoma and cataracts. Sodium hydroxide fails to coagulate protein, which would serve to prevent further penetration. Therefore, upon contact with eyes, washing with water must be started as quickly as possible, and continued for at least 15 minutes to prevent permanent injury. May cause irritation or inflammation of the nose, throat, and lungs. Inhalation of the aerosol may cause pulmonary edema. Effects of inhalation may be delayed. Overexposure may cause ulceration of nasal passages. Chronic overexposure may cause obstructive airway disease. Repeated exposure to mists or aerosols of sodium hydroxide can produce tolerance to its irritant effects. Ingestion of large doses may cause irritation of the mouth, throat and esophagus. Symptoms may include a burning pain, vomiting, diarrhea, hypersalivation, shortness of breath, potential glottic edema with respiratory compromise, collapse and possibly death. There may be a delay of weeks or months for esophageal strictures to form following ingestion. Concentrated solutions can cause perforation of the stomach or gastrointestinal tract and corrosion and necrosis of the lips, mouth, tongue, pharynx, esophagus, and gastric mucosa.

B: Component Analysis - LD50/LC50

No LD50/LC50's are available for this product's components.

Carcinogenicity

A: General Product Information

Squamous cell carcinomas arise frequently in tissue healing from sodium hydroxide burns. These cancers probably arise as a result of nonspecific irritant action on the tissue and abnormalities in the regenerative process, rather than due to a specific carcinogenic effect of sodium hydroxide.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Epidemiology

Information not available.

Neurotoxicity

Information not available.

Mutagenicity

Sodium hydroxide induced chromosome aberrations in grasshoppers and hamster lung cells, and also possibly in other test systems. However, pH alterations from agents such as sodium hydroxide can cause false positive results in short-term genetic assays.

Teratogenicity

Sodium hydroxide at a concentration of 0.001 Molar injected directly into the amniotic fluid was not teratogenic to rats, but was slightly embryotoxic.

Other Toxicological Information

None

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

Expected to be highly toxic to aquatic organisms and ecosystems due to effects on pH.

Material Safety Data Sheet

Material Name: Sodium Hydroxide (Caustic Soda)

ID: C1-142

B: Ecotoxicity

LC100: Cyprinus Carpio 180 PPM/24 hr @ 25 Deg C

Environmental Fate

Product is not expected to accumulate in the food chain.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

Wastes may be classified as D002, D003 (Corrosive, Reactive Waste). You must test your waste using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Review federal, provincial, and local government requirements prior to disposal. Disposal by controlled incineration or secure landfill may be acceptable.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: RQ, Sodium Hydroxide, Solid

Hazard Class: 8

UN/NA #: UN1823

Packing Group: II

Required Label(s): CORROSIVE

Additional Info.: For packagings less than 1000 pounds, the RQ can be deleted from the shipping description.

International Transportation Regulations

NOTE: The data in this section (Section 14) is meant as a guide to the overall classification of the product. However, transportation classifications may be subject to change with changes in package size. Consult shipper requirements under I.M.O., I.C.A.O. (I.A.T.A.) and 49 CFR to assure regulatory compliance.

I.M.O. Classification: Sodium Hydroxide, Solid, 8, UN1823, PGII, EmS No. 8-06, MFAG Table No. 705 (IMDG Code page 8225-1).

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

None.

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Sodium Hydroxide (1310-73-2)

CERCLA: final RQ = 1000 pounds (454 kg)

State Regulations

A: General Product Information

Other state regulations may apply.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Material Safety Data Sheet

Material Name: Sodium Hydroxide (Caustic Soda)

ID: C1-142

Component	CAS #	CA	FL	MA	MN	NJ	PA
Sodium Hydroxide	1310-73-2	Yes	Yes	Yes	Yes	Yes	Yes

Other Regulations

A: General Product Information

Not determined.

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Sodium Hydroxide	1310-73-2	Yes	Yes	Yes

C: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Sodium Hydroxide	1310-73-2	1% item 1442 (998)

*** Section 16 - Other Information ***

Other Information

Chem One Corp. ("Chem One") shall not be responsible for the use of any information, product, method, or apparatus herein presented ("Information"), and you must make your own determination as to its suitability and completeness for your own use, for the protection of the environment, and for health and safety purposes. You assume the entire risk of relying on this Information. In no event shall Chem One be responsible for damages of any nature whatsoever resulting from the use of this product or products, or reliance upon this Information. By providing this Information, Chem One neither can nor intends to control the method or manner by which you use, handle, store, or transport Chem One products. If any materials are mentioned that are not Chem One products, appropriate industrial hygiene and other safety precautions recommended by their manufacturers should be observed. Chem One makes no representations or warranties, either express or implied of merchantability, fitness for a particular purpose or of any other nature regarding this information, and nothing herein waives any of Chem One's conditions of sale. This information could include technical inaccuracies or typographical errors. Chem One may make improvements and/or changes in the product (s) and/or the program (s) described in this information at any time. If you have any questions, please contact us at Tel. 713-896-9966 or E-mail us at Safety@chemone.com. Revision Information: Revised 08/10/98.

Key/Legend

EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration

Contact: Clare Welker

Contact Phone: (713)-896-9966

This is the end of MSDS # C1-142

Material Safety Data Sheet

REACT 104



PRODUCT IDENTIFICATION

MANUFACTURER'S NAME: SIERRA CHEMICALS, LLC
MANUFACTURER'S ADDRESS: P.O. Box 3527
Durango, CO 81302
EMERGENCY PHONE NUMBER: (970) 259-9757

WHMIS CLASSIFICATION: E

PRODUCT USE: ACIDIC CLEANER

HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	PERCENT	CAS NUMBER	LD ₅₀	LC ₅₀
Phosphoric acid	60-100	7664-38-2	1530 mg/Kg (Rat Oral)	20,000 ppm/10hr (Rat)
Dipropylene glycol methyl ether	1-5	34590-94-8	5380 mg/Kg (Rat Oral)	Not available

PHYSICAL DATA

PHYSICAL STATE: Liquid
ODOUR AND APPEARANCE: Colourless to pale yellow liquid with a mild odour.
ODOUR THRESHOLD: Not available
BOILING POINT: Not available
VAPOUR PRESSURE: Not available
VAPOUR DENSITY (AIR=1): Not available
SPECIFIC GRAVITY: 1.5
EVAPORATION RATE: Not available
FREEZING POINT: Not available
pH: 1-2 depending on dilution.
COEFFICIENT OF OIL/WATER DISTRIBUTION: Not available

FIRE AND EXPLOSION HAZARD

CONDITIONS OF FLAMMABILITY: Not applicable
FLASHPOINT: Not applicable
MEANS OF EXTINCTION: Not applicable
HAZARDOUS COMBUSTION PRODUCTS: Not applicable
EXPLOSION HAZARDS: Not applicable
UPPER FLAMMABLE LIMIT: Not applicable
LOWER FLAMMABLE LIMIT: Not applicable
AUTO-IGNITION TEMPERATURE: Not applicable
SENSITIVITY TO STATIC DISCHARGE: Not applicable

REACTIVITY DATA

Material Safety Data Sheet

REACT 104

STABILITY: Stable under normal conditions of storage and use.
CONDITIONS OF REACTIVITY: Contact with aluminum or zinc will generate hydrogen.
INCOMPATIBLE MATERIALS: Avoid contact with strong alkalis and strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, and phosphorous on thermal decomposition.

TOXICOLOGICAL PROPERTIES

ROUTES OF ENTRY

SKIN CONTACT: Skin irritation and chemical burns on prolonged skin contact.
SKIN ABSORPTION: Certain components may be absorbed through the skin, contributing to overall exposure.
EYE: Severe irritation and chemical burns can occur. Permanent damage may result.
INHALATION: Mists generated from the product may be irritating to the nose, throat, and respiratory tract.
INGESTION: May cause corrosion of the mouth, throat, and G.I. tract.
ACUTE OVER EXPOSURE: Irritation and possible burning of the eyes, skin, and mucous membranes. Dizziness, headache, nausea, vomiting, and diarrhea and possible death on ingestion.
CHRONIC OVER EXPOSURE: Dermatitis may occur with repeated exposure.
EXPOSURE LIMITS: Phosphoric acid: ACGIH TWA = 1 mg/m³
Dipropylene glycol methyl ether: ACGIH TWA = 100 ppm (skin)
IRRITANCY: Severe irritant to the eyes, skin, and mucous membranes.
SENSITIZATION: Not available
CARCINOGENICITY AND REPRODUCTIVE EFFECTS: None of the ingredients are listed as such.
TERATOGENICITY AND MUTAGENICITY: None of the ingredients are listed as such.
TOXICOLOGICALLY SYNERGISTIC PRODUCTS: Not available

PREVENTATIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: Use chemical goggles and wear rubber gloves when handling this product to prevent eye and skin contact.
ENGINEERING CONTROLS: Should not be required.
LEAK AND SPILL PROCEDURES: Pick up small spills with absorbent material, and flush area with plenty of water. Dispose of contaminated absorbent in accordance with all local environmental regulations.
WASTE DISPOSAL: Dispose of waste material in accordance with all local environmental regulations.
HANDLING PROCEDURES AND EQUIPMENT: Use recommended protective equipment when handling this material. Contaminated clothing must be laundered before wearing.
STORAGE REQUIREMENTS: Keep container closed and keep from freezing.
SPECIAL SHIPPING INFORMATION: PIN UN1805
Phosphoric acid solution
Class 8(9.2) Packing Group III

Material Safety Data Sheet

REACT 104

FIRST AID MEASURES

SPECIFIC FIRST AID MEASURES: _____ In case of skin contact, flush promptly with abundant water. In case of ingestion, do not induce vomiting. Call a physician. Flush eyes with abundant water and consult a physician.

PREPARATION INFORMATION

PREPARED BY: _____ Technical Service Department
PHONE NUMBER: _____ (780) 998-3771
DATE PREPARED: _____ June 15, 2000

DISCLAIMER

The information contained herein has been obtained from sources believed to be reliable. Guardian Chemicals Inc. provides no warranties express or implied and assumes no responsibility for the accuracy or completeness of the data provided.

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Energy Minerals and Natural Resources

Oil Conservation Division
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Santa Fe, NM 87505

Form C-138
Revised March 17, 1999

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District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> <input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	4. Generator . Basin Disposal
2. Management Facility Destination JFJ Landfarm L.L.C.	5. Originating Site Basin Disposal
3. Address of Facility Operator: Industrial Ecosystems Inc. P.O. Box 2043 Farmington, N.M. 87499	6. Transporter: Basin Disposal
7. Location of Material (Street Address or ULSTR) 200 Montana Ave CR 5046 Bloomfield, NM 87413	8. State: NM
9. Circle One: <u>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.</u> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:
B. S. & W. Waste from evaporative pond.

Solidified B.S. & W. Waste from evaporative pond.

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MAR 18 2004
Environmental Bureau
Oil Conservation Division

Estimated Volume _ Known Volume (to be entered by the operator at the end of the haul) 1840 BBls

SIGNATURE AJ Blair TITLE: Manager DATE: 12/30/2003
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: AJ Blair TELEPHONE NO. (505) 632-1782

(This space for State Use)

APPROVED BY: _____	TITLE: _____	DATE: _____
APPROVED BY: _____	TITLE: _____	DATE: _____



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Betty Rivera
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address Basin Disposal	2. Destination Name: J.F.J. Landfarm C/o Industrial Ecosystems Inc. 420 CR 3100 Aztec, NM 87410
3. Originating Site (name): <i>BASIN DISPOSAL</i>	Location of the Waste (Street address &/or ULSTR): <i>200 MONTANA Ave. CR 5046 Blairfield, NM 87413</i>
4. Source and Description of Waste B.S. & W. from settling pond	

RECEIVED

1. *Timmy V BARNES*
Print Name

representative for :

MAR 08 2004
Environmental Bureau
Oil Conservation Division

do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste

NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information Other (description)
 RCRA Hazardous Waste Analysis
 Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): *Timmy V Barnes*

Title: *Plant Manager*

Date: *12-1-03*

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District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> <input type="checkbox"/> Verbal Approval Received: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	4. Generator Basin Disposal
2. Management Facility Destination: JFJ Landfarm L.L.C.	5. Originating Site Basin Disposal
3. Address of Facility Operator: Industrial Ecosystems Inc. P.O. Box 2043 Farmington, N.M. 87499	6. Transporter: Basin Disposal
7. Location of Material (Street Address or ULSTR) 200 Montana Ave CR 5046 Bloomfield, NM 87413	8. State: NM
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

DEFINITION OF MATERIAL:

S. & W. Waste from evaporative pond.

Solidified B.S. & W. Waste from evaporative pond.

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Environmental Bureau
Oil Conservation Division

Estimated Volume _____ Known Volume (to be entered by the operator at the end of the haul) 2400 BBls

SIGNATURE AJ Blair TITLE: Manager DATE: 11/30/2003
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: AJ Blair TELEPHONE NO. (505) 632-1782

(This space for State Use)

APPROVED BY: Jerry Feunt TITLE: Environ/Engr DATE: 1/05/04
APPROVED BY: _____ TITLE: _____ DATE: _____



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

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Betty Rivera
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division



CERTIFICATE OF WASTE STATUS

1. Generator Name and Address Basin Disposal	2. Destination Name: J.F.J. Landfarm C/o Industrial Ecosystems Inc. 420 CR 3100 Aztec, NM 87410
3. Originating Site (name): <i>BASIN DISPOSAL</i>	Location of the Waste (Street address &/or ULSTR): <i>200 MONTANA AVE. CR 5046 Blairfield, NM 87413</i>
4. Source and Description of Waste B.S. & W. from settling pond	

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MAR 11 8 2004

Environmental Bureau
Oil Conservation Division

I, Jimmy V BARNES representative for :
Print Name

do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

MSDS Information Other (description)
 RCRA Hazardous Waste Analysis
 Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): Jimmy V Barnes
Title: Plant Manager
Date: 11-01-03

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	4. Generator Basin Disposal
2. Management Facility Destination: JFJ Landfarm L.L.C.	5. Originating Site Basin Disposal Facility, 200 Montana Ave. County Road 5046, Bloomfield N.M. 87413
3. Address of Facility Operator: Industrial Ecosystems Inc. P.O. Box 2043 Farmington, N.M. 87499	6. Transporter: Basin Truck
7. Location of Material (Street Address or ULSTR) 200 Montana Ave. County Road 5046, Bloomfield N.M. 87413	8. State: N.M.
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

EF DESCRIPTION OF MATERIAL:
Tank Bottom Sludge from settling tanks

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Oil Conservation Division

Estimated Volume _____ Known Volume (to be entered by the operator at the end of the haul) 2000 bbls _____

SIGNATURE James Hatcher TITLE: Manager DATE: 10/17/03
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: James Hatcher TELEPHONE NO. (505) 632-1782

(This space for State Use)

APPROVED BY: Denny Feut TITLE: Enviro/Engn DATE: 10/31/03
APPROVED BY: [Signature] TITLE: geologist DATE: 10-31-03

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	4. Generator . Basin Disposal
2. Management Facility Destination JFJ Landfarm L.L.C.	5. Originating Site Basin Disposal
3. Address of Facility Operator: Industrial Ecosystems Inc. P.O. Box 2043 Farmington, N.M. 87499	6. Transporter: Triple S Trucking
7. Location of Material (Street Address or ULSTR) 200 Montana Ave CR 5046 Bloomfield, NM 87413	8. State: NM
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator: <u>one certificate per job.</u> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:
B. S. & W. Waste from evaporative pond.

Solidified B.S. & W. Waste from evaporative pond.

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Oil Conservation Division

Estimated Volume _____ Known Volume (to be entered by the operator at the end of the haul) _1680 BBls_____

SIGNATURE AJ Blair TITLE: _____ Manager _____ DATE: _10/30/2003_
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: __ AJ Blair _____ TELEPHONE NO. _(505) 632-1782 _____

(This space for State Use)

APPROVED BY: _____ TITLE: _____ DATE: _____
APPROVED BY: _____ TITLE: _____ DATE: _____



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GARY E. JOHNSON
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Betty Rivera
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFICATE OF WASTE STATUS

<p>1. Generator Name and Address</p> <p style="text-align: center;">Basin Disposal</p>	<p>2. Destination Name:</p> <p>J.F.J. Landfarm C/o Industrial Ecosystems Inc. 420 CR 3100 Aztec, NM 87410</p>
<p>3. Originating Site (name):</p> <p>Basin Disposal Facility</p> <p>attach list of originating sites as appropriate</p>	<p>Location of the Waste (Street address &/or ULSTR):</p> <p style="text-align: center;">200 Montana Ave. County Road 5046, Bloomfield N.M. 87413</p>
<p>4. Source and Description of Waste</p> <p>Tank Bottom sludge from settling tanks</p>	

RECEIVED

MAR 08 2004

Environmental Bureau
Oil Conservation Division

I, Jimmy Barnes representative for: _____
Print Name

Basin Disposal do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste **NON-EXEMPT** oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For **NON-EXEMPT** waste the following documentation is attached (check appropriate items):

- MSDS Information Other (description)
- RCRA Hazardous Waste Analysis
- Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

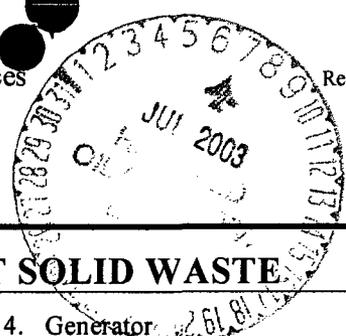
Name (Original Signature): *Jimmy Barnes*

Title: Plant Manager

Date: 10/7/03

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REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/> <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	4. Generator: Basin Disposal
2. Management Facility Destination: JFJ Landfarm L.L.C.	5. Originating Site: Basin Disposal
3. Address of Facility Operator: Industrial Ecosystems Inc. P.O. Box 2043 Farmington, N.M. 87499	6. Transporter: Triple S Trucking / Inland
7. Location of Material (Street Address or ULSTR) 200 Montana Ave. CR 5046 Bloomfield, NM 87413	8. State: New Mexico
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

B. S. & W. Waste from evaporative pond.
Solidified B.S. & W. Waste from evaporative pond.

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Environmental Bureau
Oil Conservation Division

Estimated Volume 25,000-bbls Known Volume (to be entered by the operator at the end of the haul) 11,968-cubic yards, 11,950-bbls

SIGNATURE *Aaron J. Maurer* TITLE: Manager DATE: 6/26/03
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Aaron J. Maurer TELEPHONE NO. (505) 632-1782

(This space for State Use)
APPROVED BY: *Denny Faust* TITLE: Enviro/Engr DATE: 7/08/03
APPROVED BY: *Charl Hurn* TITLE: Deputy Dir DATE: 7/9/03



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Betty Rivera
Cabinet Secretary

Lori Wrotenberg
Director
Oil Conservation Division



CERTIFICATE OF WASTE STATUS

1. Generator Name and Address Basin Disposal	2. Destination Name: J.F.J. Landfarm C/o Industrial Ecosystems Inc. 420 CR 3100 Aztec, NM 87410
3. Originating Site (name): <i>BASIN DISPOSAL</i> attach list of originating sites as appropriate	Location of the Waste (Street address &/or ULSTR): <i>200 MONTANA AVE. CR 5046 Blairfield, NM 87413</i>
4. Source and Description of Waste B.S. & W. from settling pond	

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Environmental Bureau
Oil Conservation Division

I, Timmy V Barnes representative for :
Print Name

do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information Other (description)
 RCRA Hazardous Waste Analysis
 Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): Timmy V Barnes

Title: Plant Manager

Date: 6-15-03

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-138
Revised March 17, 1999

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JUN 10 2003
Oil Conservation Division
220 South St. Francis Dr.
Santa Fe, NM 87505

Submit Original
Plus 1 Copy
to Appropriate
District Office

Environmental Bureau
Oil Conservation Division

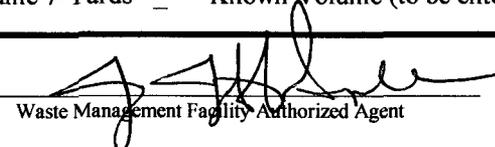
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

<p>1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/> <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p>	<p>4. Generator: Duke Energy Field Services 5. Originating Site: Gobernador Compressor Station</p>
<p>2. Management Facility Destination: JFJ Landfarm L.L.C.</p>	<p>6. Transporter: Cf&M Trucking Company</p>
<p>3. Address of Facility Operator: Industrial Ecosystems Inc. P.O. Box 2043 Farmington, N.M. 87499</p>	<p>8. State: New Mexico</p>
<p>7. Location of Material (Street Address or ULSTR) Rio Arriba county Sec 31-T30-R7</p>	
<p>9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. <input checked="" type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.</p>	

BRIEF DESCRIPTION OF MATERIAL:

General compressor station cleanup non-Exempt lube oil contaminated soil.

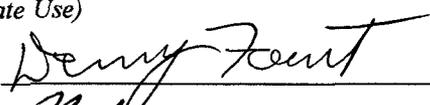
Estimated Volume 7-Yards Known Volume (to be entered by the operator at the end of the haul) 7-Yards

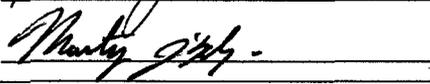
SIGNATURE  TITLE: Manager DATE: 5/14/2003

TYPE OR PRINT NAME: J. Jeff Sample TELEPHONE NO. (505) 632-1782

1-501220

(This space for State Use)

APPROVED BY:  TITLE: Enviro/Engl DATE: 6/06/03

APPROVED BY:  TITLE: Environmental Geologist DATE: 7/21/03



Field Services

Non-Hazardous Waste Manifest

Duke Energy Field Services
Attn: Val Verde Facility Manager
119 County Road 4900
P.O. Box 69
Bloomfield, NM 87413

Date: 5/6/03

DEFS Personnel Complete:

Waste Location: Gobernador compressor station. Rio Arriba Sec 31 T30n R7W
Est. Volume: 7 yards (Give units, ie. Yard, lbs.)
Description: Non-Exempt lube oil Contaminated soil
Source: General compressor station clean up
Disposal Company & Address: JFJ Land Farm 420 CR 3100 Aztec. NM 87410 In care of Industrial Ecosvstems Inc.
Waste Determination (check 1 box)
Disposal Approval For DEFS: Sign: [Signature] Date: 5/06/03 Print: Michael Lee Title: Field Supervisor

Transporter Complete:

Company Name and Address: CF&M trucking company Farmington NM CR 5267 #37
Signature and Date: Sign: [Signature] Date: 5/06/03 Print Name: ROBERT PREECE

Disposal Facility Complete

(Complete and return a copy to DEFS at address above)

Date Rec: 5-6-2003 Vol Rec: 7 yards
Waste Location: JFJ Landfarm Received by: Sign: [Signature] Print Name: Aaron Mauer
Tele #: 632-1782
Comments: 24 hour emergency # 505-632-6471 Fax number 505-632-6485

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JUL 26 2001

JUL 26 2001



OIL CONSERVATION DIVISION

Vopak USA Inc.
6100 Carillon Point
Kirkland, WA 98033
(425) 889-3400

OIL CONSERVATION DIVISION

For Emergency Assistance involving chemicals call - CHEMTREC (800) 424-9300

The Version Date for this MSDS is : 09/18/2001

PRODUCT IDENTIFICATION

PRODUCT NAME: TRIETHYLENE GLYCOL
MSDS NUMBER: UCN0262M
DATE ISSUED: 07/24/2001
SUPERCEDES: 02/19/2001
ISSUED BY: 009053

The vendor encourages and expects you to read and understand the entire MSDS, as there is important information throughout the document. The Vendor expects you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 IDENTIFICATION

Product Name
TRIETHYLENE GLYCOL
Chemical Name
Triethylene glycol
Chemical Family
Ethylene glycol
Formula
HO(C2H4O)3H
Synonym
TRIETHYLENE GLYCOL HIGH PURITY, TEG, Glycol-bis(hydroxyethyl) ether

2. COMPOSITION INFORMATION

Table with 3 columns: Component, CAS #, Amount (%W/W). Rows include Triethylene glycol and Ethylene glycol.

3. HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Appearance
Colorless
Physical State
Liquid

Odor

Mild

Hazards of product

WARNING!

HARMFUL IF SWALLOWED.

REPEATED BREATHING OF AEROSOL IN HIGH CONCENTRATIONS IS HARMFUL.

3.2 POTENTIAL HEALTH EFFECTS

Effects of Single Acute Overexposure

Inhalation Short-term harmful health effects are not expected from vapor generated at ambient temperature. No evidence of short-term harmful effects from respirable aerosol based on available information. See "Effects of Repeated Overexposure."

Eye Contact No harmful effects expected from liquid. Vapor or mist may be irritating, experienced as discomfort, excess blinking and tear production, with excess redness of the conjunctiva.

Skin Contact Sustained contact may cause mild local redness.

Skin Absorption No evidence of harmful effects from available information.

Swallowing Abdominal discomfort, nausea and vomiting may occur. Due to the production of acid metabolites there may be dizziness, drowsiness, and loss of consciousness.

Chronic, Prolonged or Repeated Overexposure

Effects of Repeated Overexposure Exposure to high concentrations of aerosol generated at room temperature may cause lung injury and liver dysfunction.

Other Effects of Overexposure Over exposure to vapor generated at high temperatures may result in eye and respiratory tract irritation, dizziness, nausea and the inhalation of harmful amounts of material.

Medical Conditions Aggravated by Exposure

A knowledge of the available toxicology information and of the physical and chemical properties of the material suggests that overexposure is unlikely to aggravate existing medical conditions.

3.3 POTENTIAL ENVIRONMENTAL EFFECTS

See Section 12 for Ecological Information.

4. FIRST AID PROCEDURES

4.1 INHALATION

Remove to fresh air. Give artificial respiration if not breathing. If breathing is difficult, oxygen may be given by qualified personnel. Obtain medical attention.

4.2 EYE CONTACT

Flush eyes thoroughly with water for several minutes. Remove contact lenses, if worn.

4.3 SKIN CONTACT

Wash skin with soap and water.

4.4 SWALLOWING

Give two glasses of water. DO NOT INDUCE VOMITING. Obtain medical attention.

See "Notes to Physician".

4.5 NOTES TO PHYSICIAN

Experience with triethylene glycol poisoning and its treatment is very limited. However, gastric lavage may be necessary if large quantities have been swallowed. After assessment of blood chemistry, intravenous sodium bicarbonate may be required to treat acidemia. The use of intravenous ethanol may be of use as a competitive inhibitor of alcohol dehydrogenase. A therapeutically effective blood concentration of ethanol will be in the range 100-150 mg/dl, achieved by an initial loading dose and maintained by an intravenous infusion.

5. FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES

Flash Point - Closed Cup: Pensky-Martens Closed Cup ASTM D 93 177 C
350 F

Flash Point - Open Cup: Cleveland Open Cup ASTM D 92 191 C 375 F

Autoignition Temperature: No test data available.

Flammable Limits In Air:

Lower 0.9 %(V) Calculated
Upper 9.2 %(V) Estimated

5.2 EXTINGUISHING MEDIA

Extinguish fires with water spray or apply alcohol-type or all-purpose-type foam by manufacturer's recommended techniques for large fires. Use carbon dioxide or dry chemical media for small fires.

5.3 EXTINGUISHING MEDIA TO AVOID

No information currently available.

5.4 SPECIAL FIRE FIGHTING PROCEDURES

Do not direct a solid stream of water or foam into hot, burning pools; this may cause frothing and increase fire intensity.

5.5 SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Use self-contained breathing apparatus and protective clothing.

5.6 UNUSUAL FIRE AND EXPLOSION HAZARDS

Spontaneous Combustion in Porous Insulation: Leaks into porous insulation material may ignite at temperatures far below published autoignition or ignition temperatures, potentially even below the normal flash point. See Section 8.3 - Engineering Controls

5.7 HAZARDOUS COMBUSTION PRODUCTS

Burning can produce the following products: Carbon monoxide and/or carbon dioxide. Carbon monoxide is highly toxic if inhaled; carbon dioxide in sufficient concentrations can act as an asphyxiant.

6. ACCIDENTAL RELEASE MEASURES

Steps to be Taken if Material is Released or Spilled:

Small spills can be flushed with large amounts of water; larger spills should be collected for disposal.

Personal Precautions: Wear suitable protective equipment. See Section 8.2 - Personal Protection.

7. HANDLING AND STORAGE

.../IndustrialChemical?action=DisplayProductDocument&productReferenceNumber=83729&12/07/2001

7.1 HANDLING

General Handling

Do not swallow.
 Avoid breathing aerosol.
 Keep container closed.
 Use with adequate ventilation.
 Wash thoroughly after handling.

FOR INDUSTRY USE ONLY.

Ventilation

General (mechanical) room ventilation is expected to be satisfactory.

7.2 STORAGE

Store in accordance with good industrial practices.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 EXPOSURE LIMITS

Component	Exposure Limits	Skin	Form
Triethylene glycol	100 mg/m ³ TWAS UCC		
Ethylene glycol	100 mg/m ³ CEILING ACGIH		
Aerosol	125 mg/m ³ CEILING OSHA-Vacated		
	50 ppm CEILING OSHA-Vacated		
	100 mg/m ³ CEILING UCC		

Aerosol and Vapor

In the Exposure Limits Chart above, if there is no specific qualifier (i.e., Aerosol) listed in the Form Column for a particular limit, the listed limit includes all airborne forms of the substance that can be inhaled.

A "Yes" in the Skin Column indicates a potential significant contribution to overall exposure by the cutaneous (skin) route, including mucous membranes and the eyes, either by contact with vapors or by direct skin contact with the substance. A "Blank" in the Skin Column indicates that exposure by the cutaneous (skin) route is not a potential significant contributor to overall exposure.

8.2 PERSONAL PROTECTION

Respiratory
Protection:

None required if airborne concentrations are maintained below listed exposure limits. If airborne concentrations exceed listed exposure limits, select respiratory protection equipment in accordance with OSHA Standard 29 CFR 1910.134.

Ventilation:

General (mechanical) room ventilation is expected to be satisfactory.

Eye Protection:

Monogoggles or faceshield

Protective Gloves:

Polyvinyl chloride coated

Other Protective Equipment:

Eye Bath, Safety Shower

8.3 ENGINEERING CONTROLS

PROCESS HAZARD: Sudden release of hot organic chemical vapor or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into hot equipment under a vacuum, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated-temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions. Further information is available in a technical bulletin entitled "Ignition Hazards of Organic Chemical Vapor."

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
Appearance:	Colorless
pH:	8.2
Solubility in Water (by weight):	100 %
Odor:	Mild
Flash Point - Closed Cup: Pensky-Martens Closed Cup ASTM D 93	177 C 350 F
Flash Point - Open Cup: Cleveland Open Cup ASTM D 92	191 C 375 F
Molecular Weight:	150 g/mol
Boiling Point (760 mmHg):	288 C 550 F Decomposes
Freezing Point:	-4.3 C 24 F
Specific Gravity (H ₂ O = 1):	1.1 20 C / 20 C
Vapor Pressure:	20 C < 0.01 mmHg
Vapor Density (air = 1):	5.2
Evaporation Rate (Butyl Acetate = 1):	< 0.001
Melting Point:	No test data available.

10. STABILITY AND REACTIVITY

10.1 STABILITY/INSTABILITY Stable

Incompatible Materials: Explosive decomposition may occur if combined with strong acids or strong bases and subjected to elevated temperatures. Therefore, avoid strong acids and strong bases at elevated temperatures. Avoid contamination with strong oxidizing agents and materials reactive with hydroxyl compounds.

Hazardous Decomposition Products: If the fluid is heated above the temperature of the onset of initial decomposition, 240 C, thermal degradation may result in the formation of volatile organic compounds such as aldehydes including formaldehyde and acetaldehyde, dioxolanes, glycol ethers including ethylene glycol monomethyl ether, and other potentially harmful decomposition products. Respiratory protection may be required.

10.2 HAZARDOUS POLYMERIZATION Will not occur.

10.3 INHIBITORS/STABILIZERS Not applicable.

11. TOXICOLOGICAL INFORMATION ACUTE TOXICITY

Peroral

Rat; male and female = 16 ml/kg

Mortality: 0/5

Major Signs: sluggishness, unsteady gait

Gross Pathology: None.

Percutaneous

Rabbit; male = 16 ml/kg; 24 h occluded.

Mortality: 0/5

Percutaneous

Rabbit; female = 16 ml/kg; 24 h occluded.

Mortality: 1/5

Percutaneous

Combined effects for males and females:

Major Signs: emaciation and abdominal distention

Gross Pathology: lungs discolored; stomach and intestines liquid-filled; slight vascularization of skin at application site

Inhalation

Rat; males and females; 4 hour = 5.2 mg/l

Mortality: 0/5

Major Signs: periocular wetness, blepharospasm, absence of pinch reflexes, unkempt fur

Inhalation

dynamic generation of vapor Rat; males and females; 6 hour exposure; 21 C.

Mortality: 0/5

IRRITATION

Skin: Rabbit; 4 h occluded

Results: no irritation

Eye: Rabbit; 0.1 ml

Results: minor iritis, minor conjunctival irritation. No corneal injury

SENSITIZATION (ANIMAL AND HUMAN STUDIES)

maximization procedure: Guinea pig; no reaction

SIGNIFICANT DATA WITH POSSIBLE RELEVANCE TO HUMANS

Triethylene glycol was given to rats by inclusion in the diet for 90 days at concentrations of 10,000, 20,000 or 50,000 ppm. At the highest dose, there were decreases in body weight.

Physiologic responses to these high doses were observed in kidney weight and urinalysis. No specific organ toxicity was seen.

In a 9-day (whole body) repeated inhalation exposure (6 hr/day) study with rats, mortality occurred at 4824 mg/m³ and effects included eye irritation and increased alanine aminotransferase and alkaline phosphatase activities; at 494 mg/m³ there was slightly increased alkaline phosphatase activity. In a subsequent 9-day (nose-only) repeated aerosol study rats were exposed to concentrations up to 1036 mg/m³. The only effect noted was slight (not

statistically or biologically significant) decrease in body weight gain at 517 mg/m³ and 1036 mg/m³, but not at 102 mg/m³. No indications of local or systemic target organ toxicity were noted, including effects on hematology, clinical chemistry or urinalysis. In a sensory irritation study in mice, exposure to high concentrations of triethylene glycol aerosol resulted in a decreased respiratory rate. The RD50, or concentration which produced a 50% decrease in respiratory rate, was 5.1 mg/l. There was no evidence in developmental toxicity studies for either embryotoxic or teratogenic effects in mice or rats given triethylene glycol by gavage. Maternal toxicity was seen as reduced body weight and food consumption, increased water consumption, and increased relative kidney weight with rats, and clinical signs and increased relative kidney weight with mice. There was no histologic evidence of damage to the kidneys in either species. The no-observable effect doses for maternal toxicity were 1125 mg/kg/day for rats and 5630 mg/kg/day for mice. Minor fetotoxicity (reduced fetal body weights and increased skeletal variations) was present with doses of 11260 mg/kg/day for rats, and 5630 and 11260 mg/kg/day for mice. The no-observable effect dose for fetotoxicity was 5630 mg/kg/day for rats and 563 mg/kg/day for mice.

ADDITIONAL STUDIES

No evidence for skin sensitizing potential in a human repeated insult study.

12. ECOLOGICAL INFORMATION

12.1 ENVIRONMENTAL FATE

BOD (% Oxygen consumption)

Day 5	Day 10	Day 15	Day 20	Day 30
3 %	9 %		30 %	

BOD (% Oxygen consumption)

Day 5	Day 10	Day 15	Day 20	Day 30
Acclimated	32 %	64 %		86 %

12.2 ECOTOXICITY

Toxicity to Micro-organisms

Bacterial Inhibition; 16 h; IC50
Result value: > 10000 mg/l

Toxicity to Aquatic Invertebrates

Daphnia; 48 h; LC50
Result value: > 10000 mg/l

Toxicity to Aquatic Invertebrates

Daphnia; ChV

Result value: > 2500 mg/l

Toxicity to Fish

Fathead Minnow; 96 h; LC50
Result value: > 10000 mg/l

12.3 FURTHER INFORMATION

Theoretical Oxygen Demand (THOD) - measured: 1.55 mg/mg
Theoretical Oxygen Demand (THOD) - calculated: 1.6 mg/mg

Chemical Oxygen Demand (COD) - measured: 1.60 mg/mg
Chemical Oxygen Demand (COD) - calculated: 1.55 mg/mg
Octanol/Water Partition Coefficient - Calculated: -2.08

13. DISPOSAL CONSIDERATIONS

13.1 DISPOSAL

Incinerate in a furnace where permitted under appropriate Federal, State, and local regulations. Dispose in accordance with all applicable Federal, State, and local environmental regulations. Empty containers should be recycled or disposed of through an approved waste management facility.

13.2 DISPOSAL CONSIDERATIONS

See Section 13.1

Disposal methods identified are for the product as sold. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permissible under applicable rules, regulations and/or laws governing your location.

14. TRANSPORT INFORMATION**14.1 U.S. D.O.T.****NON-BULK**

Proper Shipping Name : NOT REGULATED

BULK

Proper Shipping Name : NOT REGULATED

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION**15.1 FEDERAL/NATIONAL****OSHA HAZARD COMMUNICATION STANDARD**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 TITLE III (EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT) SECTION 313

To the best of our knowledge this product does not contain chemicals at levels which require reporting under this statute.
COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY ACT OF 1980 (CERCLA) SECTION 103

This product contains the following substances subject to CERCLA Section 103 reporting requirements and are listed in 40 CFR Part 302.4.

Component	CAS #	Amount
Ethylene glycol	107-21-1	<= 0.1000%
Acetic acid	64-19-7	<= 0.0100%
Formaldehyde	50-00-0	<= 0.0047%
Acetaldehyde	75-07-0	<= 0.0016%

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 TITLE III (EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT) SECTIONS 302 AND 304

To the best of our knowledge this product does not contain chemicals at levels which require reporting under this statute.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 TITLE III (EMERGENCY

PLANNING AND
COMMUNITY RIGHT TO KNOW ACT) SECTIONS 311 AND 312
Delayed (Chronic) Health Hazard : Yes
Fire Hazard : No
Immediate (Acute) Health Hazard : Yes
Reactive Hazard : No
Sudden Release of Pressure Hazard : No

TOXIC SUBSTANCES CONTROL ACT (TSCA)

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements.

EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES (EINECS)

The components of this product are on the EINECS inventory or are exempt from EINECS inventory requirements.

CEPA - DOMESTIC SUBSTANCES LIST (DSL)

The components of this product are on the DSL or are exempt from reporting under the New Substances Notification Regulations.

15.2 STATE/LOCAL PENNSYLVANIA (WORKER AND COMMUNITY RIGHT-TO-KNOW ACT)

The following product components are cited in the Pennsylvania Hazardous Substances List, the Pennsylvania Special Hazardous Substance List, and/or the Pennsylvania Environmental Hazardous Substance list, and are present at levels which require reporting.

Component	CAS #	Amount
Triethylene glycol	112-27-6	<= 99.5000%

CALIFORNIA PROPOSITION 65 (SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986)

WARNING: This product contains a chemical(s) known to the State of California to cause cancer.

CALIFORNIA SCAQMD RULE 443.1 (SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 443.1, LABELING OF MATERIALS CONTAINING ORGANIC SOLVENTS)

VOC: Vapor pressure <0.01 mmHg at 20 C
2 g/l VOC
2 g/l of material less water and less exempted solvents.

This section provides selected regulatory information on this product including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

16. OTHER INFORMATION

16.1 AVAILABLE LITERATURE AND BROCHURES

16.2 SPECIFIC HAZARD RATING SYSTEM

HMIS

ratings for this product are:

H - 1
F - 1
R - 0

NFPA

ratings for this product are:

H - 1

F - 1
R - 0

These ratings are part of specific hazard communications program(s) and should be disregarded where individuals are not trained in the use of these hazard rating systems. You should be familiar with the hazard communication applicable to your workplace.

16.3 RECOMMENDED USES AND RESTRICTIONS
FOR INDUSTRY USE ONLY

16.4 REVISION

Revision: 07/24/2001

16.5 LEGEND

A	Asphyxiant
Bacterial/NA	Non Acclimated Bacteria
F	Fire
H	Health
HMIS	Hazardous Materials Information Systems
N/A	Not available
NFFPA	National Fire Protection Association
O	Oxidizer
P	Peroxide Former
R	Reactivity
TS	Trade Secret
VOL/VOL	Volume/Volume
W	Water Reactive
W/W	Weight/Weight

For Additional Information:

Contact: MSDS Coordinator - Vopak USA

During business hours, Pacific Time - (425) 889-3400

NOTICE

Vopak USA, expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages.

MSDS 07/24/2001

RECEIVED

JUL 16 2003

OIL CONSERVATION DIVISION 602466-00 MOBIL PEGASUS 805 MATERIAL SAFETY DATA BULLETIN

RECEIVED

JUL 21 2003 Environmental Bureau Oil Conservation Division

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL PEGASUS 805
SUPPLIER: EXXONMOBIL OIL CORPORATION
3225 GALLOWS RD.
FAIRFAX, VA 22037
24 - Hour Emergency (call collect): 609-737-4411
Product and MSDS Information: 800-662-4525 856-224-4644
CHEMTREC: 800-424-9300 202-483-7616

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES
INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:
This product is not formulated to contain ingredients which have exposure limits established by U.S. agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients. See Section 15 for European Label Information. See Section 8 for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous.
EFFECTS OF OVEREXPOSURE: No significant effects expected.
EMERGENCY RESPONSE DATA: Light Amber Liquid. DOT ERG No. : NA

4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.
SKIN CONTACT: Wash contact areas with soap and water.
INHALATION: Not expected to be a problem.
INGESTION: Not expected to be a problem when ingested. If uncomfortable seek medical assistance.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.
SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from

Martynne,

Here is the info
for the non-exempt
waste for Duke Energy.

Thanks,

Aaron

fire control or dilution from entering streams, sewers, or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Flash Point C(F): > 245(473) (ASTM D-92). Flammable limits - LEL: NE, UEL: NE.

NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Possibly hydrocarbon fragments. Sulfur oxides and compounds.

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.

PERSONAL PRECAUTIONS: See Section 8

7. HANDLING AND STORAGE

HANDLING: No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.

STORAGE: Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: No special requirements under ordinary conditions of use and with adequate ventilation.

RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation.

EYE PROTECTION: Normal industrial eye protection practices should be employed.

SKIN PROTECTION: No special equipment required. However, good personal hygiene practices should always be followed.

EXPOSURE LIMITS: This product does not contain any components which have recognized exposure limits. However, a exposure limit of 5.00 mg/m³ is suggested for oil mist.

9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE: Liquid

COLOR: Light Amber

ODOR: Marketable
 ODOR THRESHOLD-ppm: NE
 pH: NA
 BOILING POINT C(F): NE
 MELTING POINT C(F): NA
 FLASH POINT C(F): > 245(473) (ASTM D-92)
 FLAMMABILITY: NE
 AUTO FLAMMABILITY: NE
 EXPLOSIVE PROPERTIES: NA
 OXIDIZING PROPERTIES: NA
 VAPOR PRESSURE-mmHg 20 C: < 0.1
 VAPOR DENSITY: > 2.0
 EVAPORATION RATE: NE
 RELATIVE DENSITY, 15/4 C: 0.89
 SOLUBILITY IN WATER: Negligible
 PARTITION COEFFICIENT: NE
 VISCOSITY AT 40 C, cSt: 130.0
 VISCOSITY AT 100 C, cSt: 13.5
 POUR POINT C(F): < -12(10)
 FREEZING POINT C(F): NE
 VOLATILE ORGANIC COMPOUND: NE
 NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES
 FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable.
 CONDITIONS TO AVOID: Extreme heat.
 INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.
 HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Possibly hydrocarbon fragments. Sulfur oxides and compounds.
 HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---
 ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
 DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
 INHALATION TOXICITY (RATS): Not applicable ---Harmful concentrations of mists and/or vapors are unlikely to be encountered through any customary or reasonably foreseeable handling, use, or misuse of this product.
 EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). ---Based on testing of similar products and/or the components.
 SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components.
 ---SUBCHRONIC TOXICOLOGY (SUMMARY)---
 Severely solvent refined and severely hydrotreated mineral base oils have been tested at Mobil Environmental and Health Sciences Laboratory by dermal application to rats 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.

---CHRONIC TOXICOLOGY (SUMMARY)---

The base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not established.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT.
RID/ADR: NOT REGULATED BY RID/ADR.
IMO: NOT REGULATED BY IMO.
IATA: NOT REGULATED BY IATA.

15. REGULATORY INFORMATION

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, AICS, and DSL.

EU Labeling:

Symbol: * EU labeling not required..

Risk Phrase(s): R.

NA

Safety Phrase(s): Not applicable.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:

This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

This product contains no chemicals subject to the supplier notification requirements of SARA (313) toxic release program.

The following product ingredients are cited on the lists below:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
XYLENES (0.03%)	1330-20-7	22
ZINC (ELEMENTAL ANALYSIS) (0.03%)	7440-66-6	22

PHOSPHORODITHOIC ACID, O,O-DI 68649-42-3 22
C1-14-ALKYL ESTERS, ZINC SALTS (2:
1) (ZDDP) (0.33%)

--- REGULATORY LISTS SEARCHED ---

1=ACGIH ALL	6=IARC 1	11=TSCA 4	16=CA P65 CARC	21=LA RTK
2=ACGIH A1	7=IARC 2A	12=TSCA 5a2	17=CA P65 REPRO	22=MI 293
3=ACGIH A2	8=IARC 2B	13=TSCA 5e	18=CA RTK	23=MN RTK
4=NTP CARC	9=OSHA CARC	14=TSCA 6	19=FL RTK	24=NJ RTK
5=NTP SUS	10=OSHA Z	15=TSCA 12b	20=IL RTK	25=PA RTK
				26=RI RTK

Code key: CARC=Carcinogen; SUS=Suspected Carcinogen; REPRO=Reproductive

16. OTHER INFORMATION

USE: ENGINE LUBRICANT

NOTE: PRODUCTS OF EXXON MOBIL CORPORATION AND ITS AFFILIATED COMPANIES
ARE NOT FORMULATED TO CONTAIN PCBS.

Please call the Customer Response Center on 800-662-4525 for formulation
disclosure.

For Internal Use Only: MHC: 0* 0* NA 1* 1*, MPPEC: A, TRN: 602466-00,
ELIS: 400795, CMCS97: 97D936, REQ: US - MARKETING, SAFE USE: L
EHS Approval Date: 31DEC2000

Legally required information is given in accordance with applicable
Information given herein is offered in good faith as accurate, but
without guarantee. Conditions of use and suitability of the product for
particular uses are beyond our control; all risks of use of the product
are therefore assumed by the user and WE EXPRESSLY DISCLAIM ALL
WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO
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District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

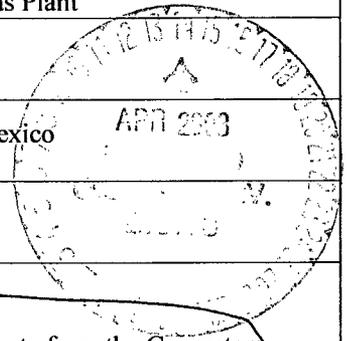
State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/> <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	4. Generator ConocoPhillips
2. Management Facility Destination: JFJ Landfarm L.L.C.	5. Originating Site San Juan Basin Gas Plant
3. Address of Facility Operator: Industrial Ecosystems Inc. P.O. Box 2043 Farmington, N.M. 87499	6. Transporter: T & R Trucking
7. Location of Material (Street Address or ULSTR) 61 CR 4900 Bloomfield, NM 87413	8. State: New Mexico
9. <u>Circle One:</u> <u>A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator, one certificate per job.</u> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	



BRIEF DESCRIPTION OF MATERIAL:

General Plant Clean Up – Gravel/Dirt

Estimated Volume 5-Yards Known Volume (to be entered by the operator at the end of the haul) 5-Yards

SIGNATURE J. Jeff Sample TITLE: Manager DATE: 4/3/2003
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: J. Jeff Sample TELEPHONE NO. (505) 632-1782

2-03103-04

(This space for State Use)

APPROVED BY: <u>Denny Faust</u>	TITLE: <u>Enviro/Eng</u>	DATE: <u>4/15/03</u>
APPROVED BY: <u>Martha J. Siz.</u>	TITLE: <u>Environmental Geologist</u>	DATE: <u>4/21/03</u>



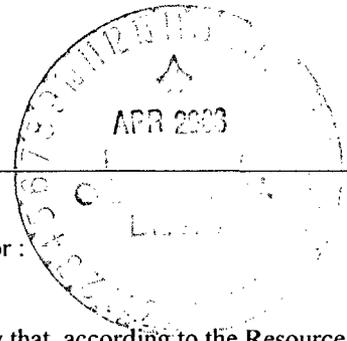
NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Betty Rivera
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address SAN JUAN BASIN GAS PLANT PO BOX 217 Bloomfield, NM 87413	2. Destination Name: J.F.J. Landfarm C/o Industrial Ecosystems Inc. 420 CR 3100 Aztec, NM 87410
3. Originating Site (name): SAN JUAN BASIN GAS PLANT Location of the Waste (Street address &/or ULSTR): 61 County Rd. 4900 Bloomfield, NM 87413 attach list of originating sites as appropriate	
4. Source and Description of Waste General Plant Cleanup - Gravel/Dirt	



I, F.P. Micky Colomb representative for:
 Print Name

SAN JUAN BASIN GAS PLANT do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste
 NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):
 MSDS Information
 RCRA Hazardous Waste Analysis
 Chain of Custody
 Other (description existing MSDS on file)

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): F.P. Colomb
 Title: Process Foreman
 Date: 4-3-03

The MSDS format adheres to U.S. standards and regulatory requirements and may not meet regulatory requirements in other countries.

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience are gained.

Slop Oil (NGP)

LUBC0343

Revised 5-DEC-1997

Printed 6-JAN-1999

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Company Identification

MANUFACTURER/DISTRIBUTOR

Conoco, Inc.
P.O. Box 2197
Houston, TX 77252

PHONE NUMBERS

Product Information : 1-281-293-5550
Transport Emergency : CHEMTREC 1-800-424-9300
Medical Emergency : 1-800-441-3637

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
Petroleum Hydrocarbons (Aromatic and Paraffinic Hydrocarbons)		>95
*Benzene	71-43-2	<1.0

* Disclosure as a toxic chemical is required under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

HAZARDS IDENTIFICATION

Potential Health Effects

Primary Route of Exposure/Entry: Skin.

Signs and Symptoms of Exposure/Medical Conditions Aggravated by Exposure:

The product contains petroleum hydrocarbons which may cause irritation to eyes, skin and lungs after prolonged or

repeated exposure. Extreme exposure or aspiration into the lungs may cause lung damage and death. Overexposure may cause weakness, headache, nausea, confusion, blurred vision, drowsiness, and other nervous system effects; greater exposure may cause dizziness, slurred speech, flushed face, unconsciousness, and convulsions.

A few studies have indicated that workers exposed many years to high concentrations of benzene have a slightly higher incidence of leukemia. Benzene can also be toxic to the blood and blood-forming tissues (i.e., anemia, low blood cell count, and change in blood clotting).

Note that the OSHA exposure standard for petroleum distillates is 400 ppm (1600 mg/m³).

Animal Studies:

Animal studies have shown that prolonged or repeated inhalation exposure to high concentrations of some petroleum distillates has caused liver tumors in mice and kidney damage and tumors in male rats. However, kidney effects were not seen in similar studies involving female rats, guinea pigs, dogs, or monkeys. Present studies indicate the kidney effects will only occur in male rats. Also, human studies do not indicate this peculiar sensitivity for kidney damage. The significance of liver tumors in exposed mice is highly speculative and not a good indicator for predicting a potential human carcinogenic hazard.

Mouse skin painting studies have shown that petroleum middle distillates (boiling range of 100-700 deg F; naphtha, kerosene, jet fuel, diesel fuel, etc.) can cause skin cancer when repeatedly applied and never washed from the animal's skin. The relative significance of this to human health is uncertain since the petroleum distillates were not washed from the skin and resulting skin effects (irritation, cell damage, etc.) may play a role in the tumorigenic response. A few studies have shown that washing the animal's skin with soap and water between treatments greatly reduces the carcinogenic effect of some petroleum oils.

Carcinogenicity Information

The following components are listed by IARC, NTP, OSHA or ACGIH as carcinogens.

Material	IARC	NTP	OSHA	ACGIH
Benzene	X	X	X	X

DuPont controls the following materials as carcinogens: ^^
Benzene.

FIRST AID MEASURES

First Aid

INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

In case of contact, immediately wash skin with soap and water. Wash contaminated clothing before reuse.

If irritation develops, consult a physician.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

Notes to Physicians

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point : <40 F (<4 C)
Method : FMCC

Vapor forms explosive mixture with air. Vapors or gases may travel considerable distances to ignition source and flash back.

NFPA Classification : Class IA Flammable Liquid.

Extinguishing Media

Foam, Dry Chemical, CO2.

Fire Fighting Instructions

Special Fire Fighting Procedures: Water or foam may cause frothing. Use water to keep fire-exposed containers cool. Water spray may be used to flush spills away from exposures.

Unusual Fire and Explosion Hazards: Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

Accidental Release Measures

Remove source of heat, sparks, flame, impact, friction and electricity including internal combustion engines and power tools. If equipment is used for spill cleanup, it must be explosion-proof and suitable for flammable liquid and vapors.

NOTE: Vapors released from the spill may create an explosive atmosphere.

HANDLING AND STORAGE

Handling (Personnel)

Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. Wash clothing after use.

Storage

Store in accordance with National Fire Protection Association recommendations.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Ventilation: Use adequate ventilation (local exhaust and mechanical) to maintain concentrations below recommended levels. Avoid sparking and explosive mixtures.

Personal Protective Equipment

Respiratory Protection: Select appropriate NIOSH-approved respiratory protection where necessary to maintain exposure below the acceptable limits in the Hazard Hazard Information Section.

Protective Gloves: Should be worn when any potential exists for skin contact. NBR or neoprene recommended.

Eye Protection: Goggles or face shield for spray/mists or if splashing is probable.

Other Protective Equipment: Protective clothing should be worn, such as NOMEX or long-sleeved coveralls. Soiled clothes should be removed and laundered.

Exposure Guidelines

Applicable Exposure Limits

Benzene	
PEL (OSHA)	: 1 ppm, 8 Hr. TWA 5 ppm, STEL 0.5 ppm, Action Level
TLV (ACGIH)	: 0.5 ppm, 1.6 mg/m ³ , 8 Hr. TWA, Skin, A1 STEL 2.5 ppm, 8 mg/m ³ , A1
AEL * (DuPont)	: 1 ppm, 8 & 12 Hr. TWA 5 ppm, 15 minute TWA

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point	: 90-365 F (32-185 C)
Vapor Pressure	: 11-13 psi
Vapor Density	: >1 (Air = 1)
% Volatiles	: Not Applicable
Evaporation Rate	: Nil 0
Solubility in Water	: Nil
Odor	: Slightly sweet
Form	: Liquid
Color	: Greyish-brown
Specific Gravity	: 0.71 (Water = 1)

STABILITY AND REACTIVITY

Chemical Stability

Stable.

Incompatibility with Other Materials

Incompatible with oxidizing materials. Avoid heat and flame.

Decomposition

Carbon monoxide may be formed from incomplete combustion.

Polymerization

Polymerization will not occur.

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

By itself, the liquid is expected to be a RCRA ignitable hazardous waste, when disposed.

TRANSPORTATION INFORMATION

Shipping Information

DOT
 Proper Shipping Name : Petroleum oil
 Hazard Class : Flammable liquid
 I.D. No. (UN/NA) : NA 1270
 DOT Label(s) : Flammable liquid
 DOT Placard : Flammable

Above DOT description allowed prior to 10/01/93.

INTERNATIONAL HM-181 (EFFECTIVE 10/01/93):

Proper Shipping Name : Petroleum Oil
 Hazard Class : 3
 UN/NA Number : UN 1270
 Packing Group : II
 Labels : Flammable Liquid
 Placards : Flammable

REGULATORY INFORMATION

U.S. Federal Regulations

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes
 Chronic : Yes
 Fire : Yes
 Reactivity : No
 Pressure : No

OSHA HAZARD DETERMINATION

The material is hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, & LIABILITY ACT (CERCLA/SUPERFUND), 40 CFR 302

Not applicable; this material is covered by the CERCLA petroleum exclusion. Releases are not reportable.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986, TITLE III (SARA) - SECTION 302/304 - Extremely Hazardous Substances (40 CFR 355)

The material is not known to contain extremely hazardous substances.

TOXIC SUBSTANCES CONTROL ACT (TSCA) (40 CFR 710)

The material is a mixture as defined by TSCA. The chemical ingredients in this material are in the Section 8(b) Chemical Substance Inventory and/or are otherwise in compliance with TSCA. In the case of ingredients obtained from other manufacturers, Conoco relies of the assurance of responsible third parties in providing this statement.

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261, SUBPART C AND D

The material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations; however, it could be considered hazardous if it meets criteria for being toxic, corrosive,

ignitable or reactive according to U.S. EPA definitions (40 CFR 261). Additionally, it could be designated as hazardous according to state regulations. This material could also become a hazardous waste if it is mixed with or comes in contact with a listed hazardous waste. If such contact or mixing occurs, check 40 CFR 261 to determine whether it is a hazardous waste. If it is a hazardous waste, regulations 40 CFR 262-266 and 268 may apply.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT,
40 CFR 116.4A, Section 311

The material contains the following ingredient(s) which is considered hazardous if spilled in navigable waters.

Ingredient : Petroleum Hydrocarbons
Reportable Quantity : Film or sheen upon or discoloration of the water surface or adjoining shoreline.

STATE REGULATIONS

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 ("PROPOSITION 65")

The material contains the following ingredient(s) known to the State of California to cause cancer, birth defects or other reproductive harm. Read and follow label directions and use care when handling or using all petroleum products

Ingredient : Benzene

PENNSYLVANIA WORKER AND COMMUNITY RIGHT TO KNOW ACT

To the best of our knowledge the material is not sold or produced in Pennsylvania. Please notify Conoco at the telephone number noted below if the material results in Pennsylvania commerce.

OTHER INFORMATION

NFPA, NFPA-HMIS

NFPA Rating
Health : 1
Flammability : 3
Reactivity : 0

NFPA-HMIS Rating
Health : 2 (Chronic Health Effects)
Flammability : 3
Reactivity : 0

Personal Protection rating to be supplied by user depending on use conditions.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS : MSDS Administrator
Address : Conoco Inc.

MSDS Number: LUBC0343

Page 8 of 8

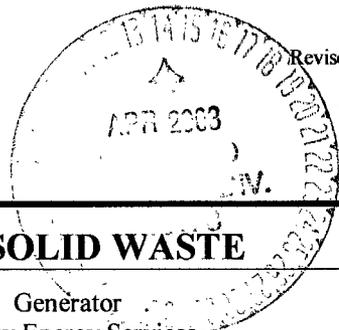
Telephone PO Box 2197
 Houston, TX 77252
 : 713-293-5550

Indicates updated section.

End of MSDS

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505



Form C-138
Revised March 17, 1999
Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/> <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	4. Generator Key Energy Services
2. Management Facility Destination: JFJ Landfarm L.L.C.	5. Originating Site Key Energy Services; 5651 US Highway 64 6. Transporter: Key Energy
3. Address of Facility Operator: Industrial Ecosystems Inc. P.O. Box 2043 Farmington, N.M. 87499	8. State: New Mexico
7. Location of Material (Street Address or ULSTR) 5651 US Highway 64	
9. Circle One: <input checked="" type="radio"/> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. <input type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Diesel Fuel Spill from leaking tank on truck. Approximately ten cubic yards of contaminated dirt will be removed and transported to Industrial Ecosystems, Inc. for remediation.

Estimated Volume 10-yards Known Volume (to be entered by the operator at the end of the haul) 14-yards

SIGNATURE J. Jeff Sample TITLE: Manager DATE: 4/2/2003
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: J. Jeff Sample TELEPHONE NO. (505) 632-1782

(This space for State Use)

APPROVED BY: Denny Feat TITLE: Enviro/Engr DATE: 4/15/03
 APPROVED BY: Monty Jilly TITLE: Environmental Geologist DATE: 4/21/03

1-301210



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

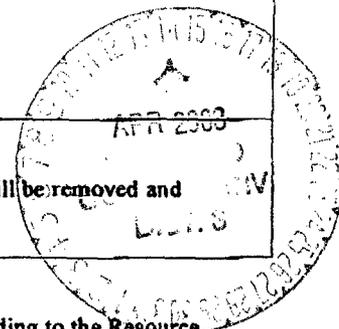
Bill Richardson
Governor

Cabinet Secretary

Director
Oil Conservation Division

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address Key Energy Services, Inc. Four Corners Division 5651 US Highway 64 Farmington, NM 87401	2. Destination Name: Industrial Ecosystems, Inc. Crouch Mesa Land farm 420 C. R. 3100 Aztec, NM 87410
3. Originating Site (name): Key Energy Services, Inc. Four Corners Division 5651 US Highway 64 Farmington, NM 87401	Location of the Waste (Street address &/or ULSTR): Farmington Facility Same as originating site
4. Source and Description of Waste Diesel Fuel Spill from leaking tank on truck. Approximately ten cubic yards of contaminated dirt will be removed and transported to Industrial Ecosystems, Inc. for remediation.	



I, **Bob James** representative for **Key Energy Services, Four Corners Division** do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste

NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

MSDS Information

Other (description)

RCRA Hazardous Waste Analysis

Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature):

Equipment & Environmental Manager

Title:

Date:

March 25, 2003



GASC0220

Revised 10-JAN-1994

Printed 5-APR-1994

No. 2 Diesel Fuel

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

CAS Number 68476-34-6

Tradenames and Synonyms

 Diesel Fuel No. 2, Low Sulfur
 Diesel Fuel No. 2, High Sulfur

3502, 3504, 3510, 3512, 4152

Company Identification

 MANUFACTURER/DISTRIBUTOR
 CONOCO INC.
 P.O. BOX 2197
 HOUSTON, TX 77252

PHONE NUMBERS

Product Information	1-713-293-5550
Transport Emergency	CHEMTREC 1-800-424-9300
Medical Emergency	1-800-441-3637

COMPOSITION/INFORMATION ON INGREDIENTS

Components Material	CAS Number	%
Diesel Fuel, No. 2	68476-34-6	100

HAZARDS IDENTIFICATION

Potential Health Effects

Primary Routes of Exposure/Entry: Skin, Inhalation.

Signs and Symptoms of Exposure/Medical Conditions

Aggravated by Exposure:

The product may cause irritation to the eyes, lungs, and skin after prolonged or repeated exposure. Extreme

(Continued)

HAZARDS IDENTIFICATION(Continued)

overexposure or aspiration into the lungs may cause lung damage and death. Overexposure may cause weakness, headache, nausea, confusion, blurred vision, drowsiness, and other nervous system effects; greater exposure may cause dizziness, slurred speech, flushed face, unconsciousness, and convulsions.

It is highly unlikely that human exposure at or below the recommended exposure level poses a significant health hazard. In this regard, good workplace practices and proper engineering designs will minimize exposure.

Decomposition Products:

Studies in mice and rats have shown that chronic exposure (8 hours/day, 7 days/week, 24 months) to unfiltered diesel exhaust produced tumors of the lung and also lymphomas. On the basis of these studies, NIOSH recommends that whole diesel exhaust be regarded as a potential carcinogen.

Carbon monoxide is a gas that can result from incomplete combustion of hydrocarbons, from detoxification of some chemicals like methylene chloride, tobacco smoke, and even from natural body processes. Carbon monoxide binds tightly to hemoglobin and interferes with oxygen transport to body tissues. Overexposure can cause headache, nausea, nervous system depression, coma, and death.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES**First Aid**
INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

Wash skin thoroughly with soap and water. If irritation develops and persists, consult a physician.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

(Continued)

FIRST AID MEASURES(Continued)

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

Notes to Physicians

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

FIRE FIGHTING MEASURES**Flammable Properties**

Flash Point	130 F (54 C)
Method	TCC
Flammable limits in Air, % by Volume	
LEL	0.4
UEL	6
Autoignition	494 F (257 C)

Vapor forms explosive mixture with air. Vapors or gases may travel considerable distances to ignition source and flash back.

NFPA Classification Class II Combustible Liquid.

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

Fire Fighting Instructions

Special Fire Fighting Procedures: Use water to keep fire-exposed containers cool. If leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for personnel attempting to stop a leak. Water spray may be used to flush spills away from exposures.

Unusual Fire and Explosion Hazards: Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

ACCIDENTAL RELEASE MEASURES**Safeguards (Personnel)**

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Remove source of heat, sparks, flame, impact, friction and electricity including internal combustion engines and power tools. If equipment is used for spill cleanup, it must be explosion proof and suitable for flammable liquid and vapor.

(Continued)

ACCIDENTAL RELEASE MEASURES (Continued)

NOTE: Vapors released from the spill may create an explosive atmosphere.

Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

Soak up with sawdust, sand, oil dry or other absorbent material.

HANDLING AND STORAGE
Handling (Personnel)

Avoid breathing vapors or mist. Wash thoroughly after handling. Wash clothing after use.

Handling (Physical Aspects)

Ground container when pouring. Keep away from heat, sparks and flames.

Storage

Store in a well ventilated place. Keep container tightly closed. Store in accordance with National Fire Protection Association recommendations. Store away from heat, sparks and flames, oxidizers.

EXPOSURE CONTROLS/PERSONAL PROTECTION
Engineering Controls

Use only with adequate ventilation. Keep container tightly closed.

Personal Protective Equipment

Respiratory Protection: Select appropriate NIOSH-approved respiratory protection when needed to avoid inhalation of mist or vapors and to maintain exposures below acceptable limits.

Protective Gloves: Impervious gloves, such as neoprene or NBR, should be worn when the potential exists for prolonged or repeated skin exposure.

Eye Protection: Safety glasses with side shields. Chemical goggles required when exposed to spray or mist or if splashing is probable.

Other Protective Equipment: Coveralls if splashing is probable. Launder contaminated clothing before reuse.

Exposure Guidelines
Exposure Limits

No. 2 Diesel Fuel

PEL (OSHA)

None Established

TLV (ACGIH)

None Established

(Continued)

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point	350-690 F (177-366 C)
Vapor Pressure	1 mm Hg @ 68 F (20 C)
Vapor Density	>1 (Air = 1)
% Volatiles	(by volume) Nil
Solubility in Water	Insoluble
Odor	Aromatic
Form	Liquid
Color	*
Specific Gravity	0.84-0.88 @ 60 F (16 C)

*Color : High Sulfur - Green
Low Sulfur - Red or Undyed (Clear or Straw-Colored)

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Conditions to Avoid

Avoid heat, sparks, and flame.

Incompatibility with Other Materials

Incompatible or can react with strong oxidizers.

Decomposition

Incomplete combustion may produce carbon monoxide.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION

Animal Data

Animal studies have shown that prolonged or repeated inhalation exposures to high concentrations of some petroleum distillates have caused liver tumors in mice and kidney damage and tumors in male rats. However, kidney effects were not seen in similar studies involving female rats, guinea pigs, dogs, or monkeys. Present studies indicate the kidney effects will only occur in male rats. Also, human studies do not indicate this peculiar sensitivity for kidney damage and studies reported in 1992 showed that this particular type of rat kidney damage is not useful in predicting a human health hazard. The significance of liver tumors in mice exposed to high doses of chemicals is highly speculative and probably not a good indicator for predicting a potential human carcinogenic hazard.

Mouse skin painting studies have shown that petroleum middle distillates (boiling range 100-700 F; naphtha, jet fuel, diesel fuel, kerosene, etc.) can cause skin cancer when repeatedly applied and never washed from the animal's skin. The relative

(Continued)

TOXICOLOGICAL INFORMATION(Continued)

Significance of this to human health is uncertain since the petroleum distillates were not washed from the skin and resulting skin effects (irritation, cell damage, etc.) may play a role in the tumorigenic response. A few studies have shown that washing the animal's skin with soap and water between treatments greatly reduces the carcinogenic effect of some petroleum oils.

Diesel Fuel -

Skin : Extremely irritating; no mortality at 5 ml/kg
in rabbits

Oral : LD50 of 9 ml/kg in rats

DISPOSAL CONSIDERATIONS**Waste Disposal**

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

By itself, the liquid is expected to be a RCRA ignitable hazardous waste.

TRANSPORTATION INFORMATION**Shipping Information****INTERNATIONAL HM-181**

Proper Shipping Name	Gas Oil
Hazard Class	3
UN/NA Number	UN 1202
Packing Group	III
Label	Flammable liquid
Placard	Flammable

DOMESTIC HM-181

Proper Shipping Name	Diesel fuel
Hazard Class	Combustible liquid
UN/NA Number	NA 1993
Packing Group	III
Label	None
Placard	Combustible
Special Information	If shipped by vessel or air, use international description.

(Continued)

REGULATORY INFORMATION**U.S. Federal Regulations****OSHA HAZARD DETERMINATION**

This material is hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA/SUPERFUND

Not applicable; this material is covered by the CERCLA petroleum exclusion. Releases are not reportable.

SARA, TITLE III, 302/304

This material is not known to contain extremely hazardous substances.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes
Chronic : Yes
Fire : Yes
Reactivity : No
Pressure : No

SARA, TITLE III, 313

This material is not known to contain any chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and subject to release reporting requirements.

TSCA

This material is in the TSCA Inventory of Chemical Substances (40 CFR 710) and/or is otherwise in compliance with TSCA.

RCRA

This material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations. It could become a hazardous waste if it is mixed with, or comes in contact with, a listed hazardous waste. If it is a hazardous waste, regulations at 40 CFR 262-266 and 268 may apply.

CLEAN WATER ACT

The material contains the following ingredient(s) which is considered hazardous if spilled into navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient(s)	Petroleum Hydrocarbons
Reportable Quantity	Film or sheen upon, or discoloration of, any water surface.

State Regulations (U.S.)**CALIFORNIA "PROP 65"**

This material is not known to contain any ingredient(s) subject to the Act.

PENNSYLVANIA WORKER & COMMUNITY RIGHT TO KNOW ACT

This material contains the following ingredient(s) subject to the

(Continued)

REGULATORY INFORMATION*(Continued)*

Pennsylvania Worker and Community Right to Know Hazardous Substances List.

Ingredient Diesel Fuel Oil
Category Hazardous Substance

Canadian Regulations

CLASS B Division 3 - Combustible Liquid.

CLASS D Division 2 Subdivision B - Toxic Material. Chronic Toxic Effects.

Transport/Medical Emergency Phone Number: 1-613-348-3616

OTHER INFORMATION**NFPA, NPCA-HMIS**

NFPA Rating	
Health	0
Flammability	2
Reactivity	0

NPCA-HMIS Rating

Health	1
Flammability	2
Reactivity	0

Personal Protection rating to be supplied by user depending on use conditions.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS	MSDS Administrator
Address	Conoco Inc. PO Box 2197 Houston, TX 77252
Telephone	713/293-5550

Indicates updated section.

End of MSDS

District I.
1635 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised March 17, 1999

RECEIVED

NOV 08 2002

Submit Original
Plus 1 Copy
to Appropriate
District Office

Environmental Bureau
Oil Conservation Division

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/> <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	4. Generator Key Energy Services 5. Originating Site Pump Mesa Yard 36-degree 48' 29"-North 107-Degree 41' 27"- West, San Juan County
2. Management Facility Destination JFJ Landfarm L.L.C.	6. Transporter: Key Energy Services
3. Address of Facility Operator: Industrial Ecosystems Inc. P.O. Box 2043 Farmington, N.M. 87499	8. State: New Mexico
1. Location of Material (Street Address or ULSTR) 420 CR 3100 Aztec, NM 87410	
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:

Oil and Diesel that has been spilt on ground at customers unloading facility. Attached is MSDS sheet for 15W40 oil and diesel fuel.

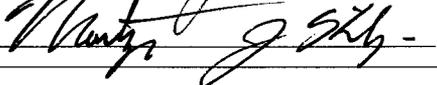
Estimated Volume 6_ Known Volume (to be entered by the operator at the end of the haul) 6_

SIGNATURE  TITLE: Manager DATE: 10-25-2002
 Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: Aaron J. Maurer TELEPHONE NO. (505) 632-1782

1 - 20/8/11

(This space for State Use)

APPROVED BY:  TITLE: Enviro/Engr DATE: 10/31/02
 APPROVED BY:  TITLE: Environmental Geologist DATE: 11/8/02



NEW MEXICO ENERGY, MINERALS and
NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address Key Energy Services, Inc. Four Corners Division 5651 US Highway 64 Farmington, NM 87401	2. Destination Name: Industrial Ecosystems, Inc. Crouch Mesa Landfarm 420 C. R. 3100 Aztec, NM 87401
3. Originating Site (name): Key Energy Services, Inc. Four Corners Division Pump Mesa Yard attach list of originating sites as appropriate	Location of the Waste (Street address &/or UTLSTR): 36 Degree 48' 29" North 107 Degree 41' 27" West San Juan County, NM
4. Source and Description of Waste The contaminated dirt is a result of minor 15 w40 new motor oil and diesel spills at a remote site. The approximately six cubic yards of contaminated dirt will be removed and transported to Industrial Ecosystems, Inc for remediation.	

I, **Bob James** representative for **Key Energy Services, Four Corners Division** do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and Environmental Protection Agency's July, 1988, regulatory determination, the above described waste is: (Check appropriate classification)

EXEMPT oilfield waste

NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification

and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste the following documentation is attached (check appropriate items):

- MSDS Information Other (description)
 RCRA Hazardous Waste Analysis
 Chain of Custody

This waste is in compliance with Regulated Levels of Naturally Occurring Radioactive Material (NORM) pursuant to 20 NMAC 3.1 subpart 1403.C and D.

Name (Original Signature): *Bob James* 
Title: Equipment & Environmental Manager
Date: September 25, 2002



CHEMICAL PRODUCT/COMPANY IDENTIFICATION

HD Fleet (TM) Engine Oil / HD Fleet Supreme (TM) Engine Oil
 MOTC0090 Revised 28-AUG-1998



Product Use

Engine Oil

Tradenames and Synonyms

HD Fleet (TM) Engine Oil, SAE 10W, 20W-20, 30, 40, and 50
 HD Fleet (TM) Engine Oil, Hi TBN, SAE 30 and 40
 HD Fleet Supreme (TM) Engine Oil, SAE 10W/30, 15W-40
 HD Fleet Supreme (TM) Engine Oil, Hi TBN, SAE 15W-40

Product Codes:

6210/6220/6230/6240/6244/6245/6250/6260/6261/6265/
 46210/46220/46230/46240/46241/46250/46250/46261/
 46262/46263

Company Identification

MANUFACTURER/DISTRIBUTOR

Conoco, Inc.
 P.O. Box 2197
 Houston, TX 77252

PHONE NUMBERS

Product Information : 1-281-293-5550
 Transport Emergency : CHEMTREC 1-800-424-9300
 Medical Emergency : 1-800-441-3637

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
Highly Refined Base Oils		50-90

12:29 SEP 04, 1998 ID: CONOCO INC.
Zinc Compounds 68849-42-3 D-2

TEL NO: -

#22100 PAGE: 3/11

Proprietary Additives 0-25

If oil mist is generated, exposure limits apply.

HAZARDS IDENTIFICATION

Potential Health Effects

Primary Routes of Entry: Skin, Inhalation

The product, as with many petroleum products, may cause minor skin, eye, and lung irritation, but good hygienic practices can minimize these effects.

Normal use of this product does not result in generation of an oil mist. However if an oil mist is generated, overexposure can cause minor and reversible irritation to the eyes, skin, and especially the lungs. Proper personal protective equipment and sufficient ventilation can provide adequate protection.

"USED" Motor Oil -

There are no epidemiology studies showing "used" motor oil to be carcinogenic. Health hazards to "used" motor oil can be minimized by avoiding prolonged skin contact.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

First Aid

INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

12:30 SEP 04, 1998 ID: CONOCO INC. TEL NO: -
Wash skin thoroughly with soap and water. If irritation develops
and persists, consult a physician.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

Material poses an aspiration hazard. If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration.

Notes to Physicians

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point : 175-200 C (347-392 F) Method: PMCC
(Minimum)
205-254 C (401-489 F) Method: COC
(Typical)
Autoignition : 650 F (343 C)
Flammable limits in Air, % by Volume
LEL : Undetermined
UEL : Undetermined

NFPA Classification : Class IIIB Combustible Liquid.

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

Fire Fighting Instructions

Water or foam may cause frothing. Use water to keep fire-exposed

12:30 SEP 04, 1999 ID: CONOCO INC. TEL NO: -
containers cool. Water may be used to flush spills away from
exposures.

*22100 PAGE: 5/11

Products of combustion may contain carbon monoxide, carbon dioxide, and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Remove source of heat, sparks, and flame.

Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

Recover free liquid for reuse or reclamation. Soak up with sawdust, sand, oil dry or other absorbent material.

HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing vapors or mist. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Wash contaminated clothing prior to reuse.

Handling (Physical Aspects)

Close container after each use. Do not pressurize, cut, weld, braze, solder, grind, or drill on or near full or empty container. Empty container retains residue (liquid and/or vapor) and may explode in heat of a fire.

Storage

12:31 SEP 04, 1998 ID: CONOCO INC.

TEL NO: -

#22100 PAGE: 6/11

Store in accordance with National Fire Protection Association recommendations. Store in a well ventilated place. Store in a cool, dry place. Store away from heat, sparks and flames, oxidizers.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

VENTILATION

Normal shop ventilation.

Personal Protective Equipment

RESPIRATORY PROTECTION

None normally required except in emergencies or when conditions cause excessive airborne levels of mists or vapors. Select appropriate NIOSH-approved respiratory protective equipment when exposed to sprays or mists. Proper respirator selection should be determined by adequately trained personnel and based on the contaminant(s), the degree of potential exposure, and published respirator protection factors.

PROTECTIVE GLOVES

Should be worn when the potential exists for prolonged or repeated skin contact. NBR or neoprene recommended.

EYE PROTECTION

Safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT

Coveralls with long sleeves if splashing is probable.

OTHER PRECAUTIONS

Avoid any prolonged or repeated skin contact with "used" motor oil. Wash thoroughly with soap and water after contact.

Exposure Guidelines

Applicable Exposure Limits

If oil mist is generated, exposure limits apply.

PEL (OSHA) : 5 mg/m³, 8 Hr. TWA

TLV (ACGIH) : 5 mg/m³, 8 Hr. TWA, STEL 10 mg/m³

Notice of Intended Changes (1997)

5 mg/m³, 8 Hr. TWA, (As sampled by

12:32 SEP 24, 1998 ID: CONOCO INC.
method that does not collect vapors)

TEL NO: -

#22100 PAGE: 7/11

AEL * (DuPont) : 5 mg/m3, 8 Hr. TWA

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point : Not Available
Vapor Pressure : Nil
Vapor Density : >1 (Air=1.0)
% Volatiles : Nil
Evaporation Rate : Nil
Solubility in Water : Insoluble
Odor : Petroleum Hydrocarbon (mild).
Form : Liquid.
Color : Amber, Brown (dark).
Specific Gravity : 0.88-0.90 @ 60 F (18 C)

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Conditions to Avoid

Heat, sparks, and flames.

Incompatibility with Other Materials

Incompatible or can react with strong oxidizers.

Decomposition

Combustion forms oxides of carbon and may produce small quantities of oxides of nitrogen, phosphorus, sulfur, and zinc.

Polymerization

09-04-1998 11:32AM

CONOCO INC.

P.07

12:33 SEP 04, 1998 ID: CONOCO INC.
Polymerization will not occur.

TEL NO: -

#22100 PAGE: 8/11

TOXICOLOGICAL INFORMATION

Animal Data

Mouse skin painting studies have shown that highly solvent-refined petroleum distillates similar to ingredients in this product have not caused skin tumors.

Animal skin exposure studies show high concentrations of zinc organic phosphates cause testicular atrophy, but this effect appears related to stress from the chemical causing severe skin irritation. Low concentrations of the zinc component, as occurs in lubricant products, would not have caused testicular damage.

"USED" Motor Oil -

Laboratory studies with mice have shown that "Used" motor oil applied repeatedly to the skin caused skin cancer. In these studies, the "Used" motor oil was not removed between applications.

ECOLOGICAL INFORMATION

Ecotoxicological Information

No specific aquatic data available for this product.

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

Container Disposal

Empty drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioner. All other containers should be disposed of in an environmentally safe manner.

12:34 SEP 24, 1998 ID: CONOCO INC.

TEL NO: -

#22100 PAGE: 9/11

TRANSPORTATION INFORMATION

Shipping Information**DOT**

Not regulated.

ICAO/IMO

Not restricted.

REGULATORY INFORMATION

U.S. Federal Regulations**OSHA HAZARD DETERMINATION**

Under normal conditions of use, this material is not known to be hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA/SUPERFUND

Not applicable; this material is covered by the CERCLA petroleum exclusion.

SARA, TITLE III, 302/304

Extremely Hazardous Substance: None

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : No

Chronic : No

Fire : No

Reactivity : No

Pressure : No

SARA, TITLE III, 313

This material contains the following chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and is subject to toxic chemical release reporting requirements:

Toxic Chemical : Zinc Compound.

TSCA

09-04-1998 11:33AM

CONOCO INC.

P.09

12:34 SEP 04, 1998 ID: CONOCO INC. TEL NO: -
Material and/or components are listed in the T:CA Inventory of
Chemical Substances (40 CFR 710).

#22100 PAGE: 10/11

RCRA

This material has been evaluated for RCRA characteristics and does not meet hazardous waste criteria if discarded in its purchased form. Because of product use, transformation, mixing, processing, etc., which may render the resulting material hazardous, it is the product user's responsibility to determine at the time of disposal whether the material meets RCRA hazardous waste criteria.

CLEAN WATER ACT

The material contains the following ingredient(s) which is considered hazardous if spilled into navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient : Petroleum Hydrocarbons
Reportable Quantity : Film or sheen upon or discoloration of
any water surface.

State Regulations (U.S.)**CALIFORNIA "PROP 65"**

This material may contain trace amount(s) of an ingredient(s) known to the State of California to cause cancer, birth defects, or other reproductive harm. Read and follow all label directions.

PENNSYLVANIA WORKER & COMMUNITY RIGHT TO KNOW ACT

This material may contain the following ingredient(s) subject to the Pennsylvania Worker and Community Right to Know Hazardous Substances List.

Ingredient : Zinc Compound.
Category : Environmental Hazardous Substance.

Canadian Regulations

This is not a WHMIS Controlled Product.

Transport/Medical Emergency Phone Number: 1-613-348-3616

OTHER INFORMATION

NFPA, NPCA-HMIS

09-04-1998 11:34AM

CONOCO INC.

P.10

12:35 SEP 04, 1998 ID: CONOCO INC.
NFPA Rating

TEL NO: -

Health : 0
Flammability : 1
Reactivity : 0

NPCA-HMIS Rating

Health : 1
Flammability : 1
Reactivity : 0

Personal Protection rating to be supplied by user depending on use conditions.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS : MSDS Coordinator

Address : Conoco Inc.
> : PO Box 2197
> : Houston, TX 77252
Telephone : 1-281-293-5550

Indicates updated section.

End of MSDS



GASC0220

Revised 10-JAN-1994

Printed 5-APR-1994

No. 2 Diesel Fuel

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

CAS Number 68476-34-6

Tradenames and Synonyms

Diesel Fuel No. 2, Low Sulfur
 Diesel Fuel No. 2, High Sulfur

3502, 3504, 3510, 3512, 4152

Company Identification

MANUFACTURER/DISTRIBUTOR
 CONOCO INC.
 P.O. BOX 2197
 HOUSTON, TX 77252

PHONE NUMBERS

Product Information 1-713-293-5550
 Transport Emergency CHEMTREC 1-800-424-9300
 Medical Emergency 1-800-441-3637

COMPOSITION/INFORMATION ON INGREDIENTS

Components Material	CAS Number	%
Diesel Fuel, No. 2	68476-34-6	100

HAZARDS IDENTIFICATION

Potential Health Effects

Primary Routes of Exposure/Entry: Skin, Inhalation.

Signs and Symptoms of Exposure/Medical Conditions

Aggravated by Exposure:

The product may cause irritation to the eyes, lungs, and skin after prolonged or repeated exposure. Extreme

(Continued)

HAZARDS IDENTIFICATION (Continued)

overexposure or aspiration into the lungs may cause lung damage and death. Overexposure may cause weakness, headache, nausea, confusion, blurred vision, drowsiness, and other nervous system effects; greater exposure may cause dizziness, slurred speech, flushed face, unconsciousness, and convulsions.

It is highly unlikely that human exposure at or below the recommended exposure level poses a significant health hazard. In this regard, good workplace practices and proper engineering designs will minimize exposure.

Decomposition Products:

Studies in mice and rats have shown that chronic exposure (8 hours/day, 7 days/week, 24 months) to unfiltered diesel exhaust produced tumors of the lung and also lymphomas. On the basis of these studies, NIOSH recommends that whole diesel exhaust be regarded as a potential carcinogen.

Carbon monoxide is a gas that can result from incomplete combustion of hydrocarbons, from detoxification of some chemicals like methylene chloride, tobacco smoke, and even from natural body processes. Carbon monoxide binds tightly to hemoglobin and interferes with oxygen transport to body tissues. Overexposure can cause headache, nausea, nervous system depression, coma, and death.

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES**First Aid**
INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

Wash skin thoroughly with soap and water. If irritation develops and persists, consult a physician.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

(Continued)

FIRST AID MEASURES (Continued)

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

Notes to Physicians

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

FIRE FIGHTING MEASURES**Flammable Properties**

Flash Point	130 F (54 C)
Method	TCC
Flammable limits in Air, % by Volume	
LEL	0.4
UEL	6
Autoignition	494 F (257 C)

Vapor forms explosive mixture with air. Vapors or gases may travel considerable distances to ignition source and flash back.

NFPA Classification Class II Combustible Liquid.

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

Fire Fighting Instructions

Special Fire Fighting Procedures: Use water to keep fire-exposed containers cool. If leak or spill has not ignited, use water spray to disperse the vapors and to provide protection for personnel attempting to stop a leak. Water spray may be used to flush spills away from exposures.

Unusual Fire and Explosion Hazards: Products of combustion may contain carbon monoxide, carbon dioxide and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

ACCIDENTAL RELEASE MEASURES**Safeguards (Personnel)**

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Remove source of heat, sparks, flame, impact, friction and electricity including internal combustion engines and power tools. If equipment is used for spill cleanup, it must be explosion proof and suitable for flammable liquid and vapor.

(Continued)

ACCIDENTAL RELEASE MEASURES (Continued)

NOTE: Vapors released from the spill may create an explosive atmosphere.

Initial Containment

Dike spill. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

Soak up with sawdust, sand, oil dry or other absorbent material.

HANDLING AND STORAGE**Handling (Personnel)**

Avoid breathing vapors or mist. Wash thoroughly after handling. Wash clothing after use.

Handling (Physical Aspects)

Ground container when pouring. Keep away from heat, sparks and flames.

Storage

Store in a well ventilated place. Keep container tightly closed. Store in accordance with National Fire Protection Association recommendations. Store away from heat, sparks and flames, oxidizers.

EXPOSURE CONTROLS/PERSONAL PROTECTION**Engineering Controls**

Use only with adequate ventilation. Keep container tightly closed.

Personal Protective Equipment

Respiratory Protection: Select appropriate NIOSH-approved respiratory protection when needed to avoid inhalation of mist or vapors and to maintain exposures below acceptable limits.

Protective Gloves: Impervious gloves, such as neoprene or NBR, should be worn when the potential exists for prolonged or repeated skin exposure.

Eye Protection: Safety glasses with side shields. Chemical goggles required when exposed to spray or mist or if splashing is probable

Other Protective Equipment: Coveralls if splashing is probable. Launder contaminated clothing before reuse.

Exposure Guidelines**Exposure Limits**

No. 2 Diesel Fuel

PEL (OSHA)

None Established

TLV (ACGIH)

None Established

(Continued)

PHYSICAL AND CHEMICAL PROPERTIES**# Physical Data**

Boiling Point	350-690 F (177-366 C)
Vapor Pressure	1 mm Hg @ 68 F (20 C)
Vapor Density	>1 (Air = 1)
% Volatiles	(by volume) Nil
Solubility in Water	Insoluble
Odor	Aromatic
Form	Liquid
Color	*
Specific Gravity	0.84-0.88 @ 60 F (16 C)

*Color : High Sulfur - Green
Low Sulfur - Red or Undyed (Clear or Straw-Colored)

STABILITY AND REACTIVITY**Chemical Stability**

Stable at normal temperatures and storage conditions.

Conditions to Avoid

Avoid heat, sparks, and flame.

Incompatibility with Other Materials

Incompatible or can react with strong oxidizers.

Decomposition

Incomplete combustion may produce carbon monoxide.

Polymerization

Polymerization will not occur.

TOXICOLOGICAL INFORMATION**Animal Data**

Animal studies have shown that prolonged or repeated inhalation exposures to high concentrations of some petroleum distillates have caused liver tumors in mice and kidney damage and tumors in male rats. However, kidney effects were not seen in similar studies involving female rats, guinea pigs, dogs, or monkeys. Present studies indicate the kidney effects will only occur in male rats. Also, human studies do not indicate this peculiar sensitivity for kidney damage and studies reported in 1992 showed that this particular type of rat kidney damage is not useful in predicting a human health hazard. The significance of liver tumors in mice exposed to high doses of chemicals is highly speculative and probably not a good indicator for predicting a potential human carcinogenic hazard.

Mouse skin painting studies have shown that petroleum middle distillates (boiling range 100-700 F; naphtha, jet fuel, diesel fuel, kerosene, etc.) can cause skin cancer when repeatedly applied and never washed from the animal's skin. The relative

(Continued)

TOXICOLOGICAL INFORMATION (Continued)

significance of this to human health is uncertain since the petroleum distillates were not washed from the skin and resulting skin effects (irritation, cell damage, etc.) may play a role in the tumorigenic response. A few studies have shown that washing the animal's skin with soap and water between treatments greatly reduces the carcinogenic effect of some petroleum oils.

Diesel Fuel -

Skin : Extremely irritating; no mortality at 5 ml/kg
in rabbits

Oral : LD50 of 9 ml/kg in rats

DISPOSAL CONSIDERATIONS**Waste Disposal**

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system.

By itself, the liquid is expected to be a RCRA ignitable hazardous waste.

TRANSPORTATION INFORMATION**Shipping Information**

INTERNATIONAL HM-181

Proper Shipping Name	Gas Oil
Hazard Class	3
UN/NA Number	UN 1202
Packing Group	III
Label	Flammable liquid
Placard	Flammable

DOMESTIC HM-181

Proper Shipping Name	Diesel fuel
Hazard Class	Combustible liquid
UN/NA Number	NA 1993
Packing Group	III
Label	None
Placard	Combustible
Special Information	If shipped by vessel or air, use international description.

(Continued)

REGULATORY INFORMATION**U.S. Federal Regulations****OSHA HAZARD DETERMINATION**

This material is hazardous as defined by OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA/SUPERFUND

Not applicable; this material is covered by the CERCLA petroleum exclusion. Releases are not reportable.

SARA, TITLE III, 302/304

This material is not known to contain extremely hazardous substances.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes
 Chronic : Yes
 Fire : Yes
 Reactivity : No
 Pressure : No

SARA, TITLE III, 313

This material is not known to contain any chemical(s) at a level of 1.0% or greater (0.1% for carcinogens) on the list of Toxic Chemicals and subject to release reporting requirements.

TSCA

This material is in the TSCA Inventory of Chemical Substances (40 CFR 710) and/or is otherwise in compliance with TSCA.

RCRA

This material, when discarded or disposed of, is not specifically listed as a hazardous waste in Federal regulations. It could become a hazardous waste if it is mixed with, or comes in contact with, a listed hazardous waste. If it is a hazardous waste, regulations at 40 CFR 262-266 and 268 may apply.

CLEAN WATER ACT

The material contains the following ingredient(s) which is considered hazardous if spilled into navigable waters and therefore reportable to the National Response Center (1-800-424-8802).

Ingredient(s) Reportable Quantity	Petroleum Hydrocarbons Film or sheen upon, or discoloration of, any water surface.
--------------------------------------	--

State Regulations (U.S.)**CALIFORNIA "PROP 65"**

This material is not known to contain any ingredient(s) subject to the Act.

PENNSYLVANIA WORKER & COMMUNITY RIGHT TO KNOW ACT

This material contains the following ingredient(s) subject to the

(Continued)

REGULATORY INFORMATION(Continued)

Pennsylvania Worker and Community Right to Know Hazardous Substances List.

Ingredient Category	Diesel Fuel Oil Hazardous Substance
---------------------	--

Canadian Regulations

CLASS B Division 3 - Combustible Liquid.

CLASS D Division 2 Subdivision B - Toxic Material. Chronic Toxic Effects.

Transport/Medical Emergency Phone Number: 1-613-348-3616

OTHER INFORMATION**NFPA, NPCA-HMIS**

NFPA Rating	
Health	0
Flammability	2
Reactivity	0

NPCA-HMIS Rating

Health	1
Flammability	2
Reactivity	0

Personal Protection rating to be supplied by user depending on use conditions.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS Address	MSDS Administrator Conoco Inc. PO Box 2197 Houston, TX 77252
Telephone	713/293-5550

* Indicates updated section.

End of MSDS

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised March 17, 1999

Submit Original
Plus 1 Copy
to Appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. RCRA Exempt: <input type="checkbox"/> Non-Exempt: <input checked="" type="checkbox"/> <input type="checkbox"/> Verbal Approval Received: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	4. Generator Red Cedar Gathering Company
2. Management Facility Destination: JFJ Landfarm L.L.C.	5. Originating Site: Coyote Gulch Gas Treating Plant, sec. 17 of 32N, R11W
3. Address of Facility Operator: Industrial Ecosystems Inc. P.O. Box 2043 Farmington, N.M. 87499	6. Transporter: Flint Engineering
7. Location of Material (Street Address or ULSTR) Space 420 County Rd 3100 Aztec N.M. 87410	8. State: Colorado
9. <u>Circle One:</u> <input checked="" type="radio"/> A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job. <input type="radio"/> B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved. All transporters must certify the wastes delivered are only those consigned for transport.	

BRIEF DESCRIPTION OF MATERIAL:
Compressor lube oil impacted soil and gravel



Estimated Volume 100 cy Known Volume (to be entered by the operator at the end of the haul) 100 cy

SIGNATURE James Hatcher TITLE: MANAGER DATE: 8/19/02
Waste Management Facility Authorized Agent

TYPE OR PRINT NAME: James Hatcher TELEPHONE NO. 505-632-1782

(This space for State Use)

APPROVED BY: Denny Feunt TITLE: Enviro/Engr DATE: 9/04/02
 APPROVED BY: Thayer G. G. G. TITLE: Environmental Geologist DATE: 9/11/02

071102-1

CERTIFICATE OF WASTE STATUS

1. Generator Name and Address: Red Cedar Gathering 26266 Highway 160 Durango, CO 81303	2. Destination Name and Address: Tierra Environmental Co., Inc., Land Farm 420 Road 3100 Aztec, NM 87410+
3. Originating Site (name): Coyote Gulch Natural Gas Treating Plant at Sec. 17 of T32N, R11W	
4. Source and Description of Waste: Lube Oil Impacted Soil - Approximately 100 yards ³ - July 2002	

I, Shawn A. Young, representative for Red Cedar Gathering do hereby certify that, according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1998 regulatory determination, the above-described waste is classified as indicated below:

- EXEMPT** oilfield waste
 NON-EXEMPT oilfield waste which is non-hazardous by characteristic analysis or by product identification and that nothing has been added to the exempt or non-exempt non-hazardous waste defined above.

For NON-EXEMPT waste only, the following documentation is attached:

- MSDS Information
 Other (Description):
 RCRA Hazardous Waste Analysis
 Chain of Custody

Name (Original Signature):



Title: Safety & Environmental Manager

Date: July 17, 2002

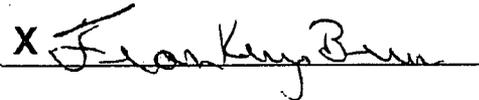
**Certificate From Out Of State Agency Authorizing Removal Of RCRA
Non-Exempt, Non-Toxic, Oilfield Waste From Their Jurisdiction To
New Mexico**

I have reviewed the enclosed information concerning the Non-exempt, Non-toxic oilfield waste material from Red Cedar Gathering Company's Coyote Gulch Treating Plant at Section 17 of Township 32 North Range 11 West and agree that by its description it is non-hazardous as defined by the Resource Conservation and Recovery Act (RCRA) and my jurisdiction's rules, regulations or statutes.

- The material is Non-exempt oilfield waste.
- The material is Non-hazardous by regulatory definition.

THEREFORE:

As a representative for the Southern Ute Indian Tribe I have no objection to the material being removed to New Mexico.

Name: Ms. Fran King-Brown Title: Head of Environmental
Programs Division
Signature: X  Date: 7-31-02
Agency: Southern Ute Indian Tribe
Address: P.O. Box 737, Ignacio, Colorado 81137
Phone: (970) 563-0135

Industrial Ecosystems Inc.
P.O. Box 2043
Farmington N.M. 87499
(505) 632-1782 Office
(505) 632-1876 Fax
www.industrialecosystems.com
AaronJMaurer@hotmail.com

“This is bioremediation at its best; fast, effective, and cost efficient”

FACSIMILE TRANSMITTAL SHEET

THE INFORMATION CONTAINED IN THIS FACSIMILE MESSAGE IS PRIVILEGED AND CONFIDENTIAL INFORMATION INTENDED FOR THE USE OF THE ADDRESSEE LISTED BELOW AND NO ONE ELSE. IF YOU ARE NOT THE INTENDED RECIPIENT OR THE EMPLOYEE OR AGENT RESPONSIBLE TO DELIVER THIS MESSAGE TO THE INTENDED RECIPIENT, PLEASE DO NOT USE THIS TRANSMISSION IN ANY WAY, BUT PLEASE CONTACT THE SENDER BY TELEPHONE.

To: Martine Kieling

Fax: (505) 476-3462

From: Aaron J. Maurer

Date: 9-9-2002

NUMBER OF PAGES (INCLUDING COVER SHEET): 11

Comments:

Requested MSDS information from Red Cedar Gathering in accordance with the C-138 form.

Thank you,

Aaron J. MAurer

602466-00 MOBIL PEGASUS 805
MATERIAL SAFETY DATA BULLETIN

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL PEGASUS 805
SUPPLIER: EXXONMOBIL OIL CORPORATION
3225 GALLOWS RD.
FAIRFAX, VA 22037
24 - Hour Emergency (call collect): 609-737-4411
Product and MSDS Information: 800-662-4525 856-224-4644
CHEMTREC: 800-424-9300 202-483-7616

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES
INGREDIENTS CONSIDERED HAZARDOUS TO HEALTH:
This product is not formulated to contain ingredients which have exposure limits established by U.S. agencies. It is not hazardous to health as defined by the European Union Dangerous Substances/Preparations Directives. See Section 15 for a regulatory analysis of the ingredients.
See Section 15 for European Label Information.
See Section 8 for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined not to be hazardous.
EFFECTS OF OVEREXPOSURE: No significant effects expected.
EMERGENCY RESPONSE DATA: Light Amber Liquid. DOT ERG No. : NA

4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.
SKIN CONTACT: Wash contact areas with soap and water.
INHALATION: Not expected to be a problem.
INGESTION: Not expected to be a problem when ingested. If uncomfortable seek medical assistance.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.
SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing. Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from

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fire control or dilution from entering streams, sewers, or drinking water supply.
SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None. Flash Point C(F): > 245(473) (ASTM D-92). Flammable limits - LEL: NE, UEL: NE.
NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Possibly hydrocarbon fragments. Sulfur oxides and compounds.

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills as required to appropriate authorities. U. S. Coast Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks. Report spill to Coast Guard toll free number (800) 424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED: Adsorb on fire retardant treated sawdust, diatomaceous earth, etc. Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal.

ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering storm sewers or drains and contact with soil.

PERSONAL PRECAUTIONS: See Section 8

7. HANDLING AND STORAGE

HANDLING: No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.

STORAGE: Do not store in open or unlabelled containers. Store away from strong oxidizing agents or combustible material.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: No special requirements under ordinary conditions of use and with adequate ventilation.

RESPIRATORY PROTECTION: No special requirements under ordinary conditions of use and with adequate ventilation.

EYE PROTECTION: Normal industrial eye protection practices should be employed.

SKIN PROTECTION: No special equipment required. However, good personal hygiene practices should always be followed.

EXPOSURE LIMITS: This product does not contain any components which have recognized exposure limits. However, a exposure limit of 5.00 mg/m3 is suggested for oil mist.

9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE: Liquid

COLOR: Light Amber

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ODOR: Marketable
 ODOR THRESHOLD-ppm: NE
 pH: NA
 BOILING POINT C(F): NE
 MELTING POINT C(F): NA
 FLASH POINT C(F): > 245(473) (ASTM D-92)
 FLAMMABILITY: NE
 AUTO FLAMMABILITY: NE
 EXPLOSIVE PROPERTIES: NA
 OXIDIZING PROPERTIES: NA
 VAPOR PRESSURE-mmHg 20 C: < 0.1
 VAPOR DENSITY: > 2.0
 EVAPORATION RATE: NE
 RELATIVE DENSITY, 15/4 C: 0.89
 SOLUBILITY IN WATER: Negligible
 PARTITION COEFFICIENT: NE
 VISCOSITY AT 40 C, cSt: 130.0
 VISCOSITY AT 100 C, cSt: 13.5
 POUR POINT C(F): < -12(10)
 FREEZING POINT C(F): NE
 VOLATILE ORGANIC COMPOUND: NE
 NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES
 FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable.
 CONDITIONS TO AVOID: Extreme heat.
 INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.
 HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide. Possibly hydrocarbon fragments. Sulfur oxides and compounds.
 HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---
 ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
 DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
 INHALATION TOXICITY (RATS): Not applicable ---Harmful concentrations of mists and/or vapors are unlikely to be encountered through any customary or reasonably foreseeable handling, use, or misuse of this product.
 EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). ---Based on testing of similar products and/or the components.
 SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components.
 ---SUBCHRONIC TOXICOLOGY (SUMMARY)---
 Severely solvent refined and severely hydrotreated mineral base oils have been tested at Mobil Environmental and Health Sciences Laboratory by dermal application to rats 5 days/week for 90 days at doses significantly higher than those expected during normal industrial exposure. Extensive evaluations including microscopic examination of internal organs and clinical chemistry of body fluids, showed no adverse effects.

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---CHRONIC TOXICOLOGY (SUMMARY)---

The base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not established.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT.
 RID/ADR: NOT REGULATED BY RID/ADR.
 IMO: NOT REGULATED BY IMO.
 IATA: NOT REGULATED BY IATA.

15. REGULATORY INFORMATION

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, AICS, and DSL.

EU Labeling:

Symbol: * EU labeling not required..

Risk Phrase(s): R.

NA

Safety Phrase(s): Not applicable.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:

This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

This product contains no chemicals subject to the supplier notification requirements of SARA (313) toxic release program.

The following product ingredients are cited on the lists below:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
XYLENES (0.03%)	1330-20-7	22
ZINC (ELEMENTAL ANALYSIS) (0.03%)	7440-66-6	22

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PHOSPHORODITHOIC ACID, O,O-DI 68649-42-3 22
C1-14-ALKYL ESTERS, ZINC SALTS (2:
1) (ZDDP) (0.33%)

--- REGULATORY LISTS SEARCHED ---
1=ACGIH ALL 6=IARC 1 11=TSCA 4 16=CA P65 CARC 21=LA RTK
2=ACGIH A1 7=IARC 2A 12=TSCA 5a2 17=CA P65 REPRO 22=MI 293
3=ACGIH A2 8=IARC 2B 13=TSCA 5e 18=CA RTK 23=MN RTK
4=NTP CARC 9=OSHA CARC 14=TSCA 6 19=PL RTK 24=NJ RTK
5=NTP SUS 10=OSHA Z 15=TSCA 12b 20=IL RTK 25=PA RTK
26=RI RTK

Code key: CARC=Carcinogen; SUS=Suspected Carcinogen; REPRO=Reproductive

16. OTHER INFORMATION

USE; ENGINE LUBRICANT

NOTE: PRODUCTS OF EXXON MOBIL CORPORATION AND ITS AFFILIATED COMPANIES
ARE NOT FORMULATED TO CONTAIN PCBS.

Please call the Customer Response Center on 800-662-4525 for formulation
disclosure.

For Internal Use Only: MHC: 0* 0* NA 1* 1*, MPPEC: A, TRN: 602466-00,
ELIS: 400795, CMCS97: 97D936, REQ: US - MARKETING, SAFE USE: L
EHS Approval Date: 31DEC2000

Legally required information is given in accordance with applicable
Information given herein is offered in good faith as accurate, but
without guarantee. Conditions of use and suitability of the product for
particular uses are beyond our control; all risks of use of the product
are therefore assumed by the user and WE EXPRESSLY DISCLAIM ALL
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600163-00 MOBIL DTE OIL HEAVY MEDIUM
MATERIAL SAFETY DATA BULLETIN

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MOBIL DTE OIL HEAVY MEDIUM
SUPPLIER: EXXONMOBIL OIL CORPORATION
3225 GALLOWES RD.
FAIRFAX, VA 22037
24 - Hour Health and Safety Emergency (call collect): 609-737-4411
24 - Hour Transportation Emergency (Primary) CHEMTREC: 800-424-9300
(Secondary) 281-834-3296
Product and Technical Information: 800-662-4525 703-846-6693
MSDS Fax on Demand: 613 228 1467, other MSDS information: 856-224-4644

2. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAMES AND SYNONYMS: PET. HYDROCARBONS AND ADDITIVES
GLOBALLY REPORTABLE MSDS INGREDIENTS:
None.
See Section 8 for exposure limits (if applicable).

3. HAZARDS IDENTIFICATION

Under normal conditions of use, this product is not considered hazardous according to regulatory guidelines (See section 15).
EMERGENCY OVERVIEW: Amber Liquid. DOT ERG No. : NA
POTENTIAL HEALTH EFFECTS: Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation.
For further health effects/toxicological data, see Section 11.

4. FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.
SKIN CONTACT: Wash contact areas with soap and water. Remove and clean oil soaked clothing daily and wash affected area. (See Section 16 - Injection Injury)
INHALATION: Not expected to be a problem. However, if respiratory irritation, dizziness, nausea, or unconsciousness occurs due to excessive vapor or mist exposure, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or mouth-to-mouth resuscitation.
INGESTION: Not expected to be a problem. Seek medical attention if discomfort occurs. Do not induce vomiting.

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5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.
SPECIAL FIRE FIGHTING PROCEDURES: Water or foam may cause frothing.

Use water to keep fire exposed containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

SPECIAL PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

COMBUSTION PRODUCTS: Fumes, smoke, carbon monoxide, sulfur oxides, aldehydes and other decomposition products, in the case of incomplete combustion.

Flash Point C(F): > 204(400) (ASTM D-93).

Flammable Limits (approx.% vol.in air) - LEL: 0.9%, **UEL:** 7.0%

NFPA HAZARD ID: Health: 0, Flammability: 1, Reactivity: 0

6. ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills/releases as required to appropriate authorities. U.S. Coast Guard and EPA regulations require immediate reporting of spills/releases that could reach any waterway including intermittent dry creeks. Report spill/release to Coast Guard National Response Center toll free number (800)424-8802. In case of accident or road spill notify CHEMTREC (800) 424-9300.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED:

LAND SPILL: Shut off source taking normal safety precautions. Take measures to minimize the effects on ground water. Recover by pumping or contain spilled material with sand or other suitable absorbent and remove mechanically into containers. If necessary, dispose of adsorbed residues as directed in Section 13.

WATER SPILL: Confine the spill immediately with booms. Warn other ships in the vicinity. Notify port and other relevant authorities. Remove from the surface by skimming or with suitable absorbents. If permitted by regulatory authorities the use of suitable dispersants should be considered where recommended in local oil spill procedures.

ENVIRONMENTAL PRECAUTIONS: Prevent material from entering sewers, water sources or low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation.

PERSONAL PRECAUTIONS: See Section 8

7. HANDLING AND STORAGE

HANDLING: No special precautions are necessary beyond normal good hygiene practices. See Section 8 for additional personal protection advice when handling this product.

STORAGE: Keep containers closed when not in use. Do not store in open or unlabelled containers. Store away from strong oxidizing agents and combustible materials. Do not store near heat, sparks, flame or strong oxidants.

SPECIAL PRECAUTIONS: Prevent small spills and leakages to avoid slip

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hazard.

EMPTY CONTAINER WARNING: Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

When mists/aerosols can occur, the following are recommended: 5 mg/m³ (as oil mist)- ACGIH Threshold Limit Value (TLV), 10 mg/m³ (as oil mist) - ACGIH Short Term Exposure Limit (STEL), 5 mg/m³ (as oil mist) - OSHA Permissible Exposure Limit (PEL)

VENTILATION: If mists are generated, use adequate ventilation, local exhaust or enclosures to control below exposure limits.

RESPIRATORY PROTECTION: If mists are generated, and/or when ventilation is not adequate, wear approved respirator.

EYE PROTECTION: If eye contact is likely, safety glasses with side shields or chemical type goggles should be worn.

SKIN PROTECTION: Not normally required. When splashing or liquid contact can occur frequently, wear oil resistant gloves and/or other protective clothing. Good personal hygiene practices should always be followed.

9. PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE: Liquid

COLOR: Amber

ODOR: Mild

ODOR THRESHOLD-ppm: NE

pH: NA

BOILING POINT C(F): > 316(600)

MELTING POINT C(F): NA

FLASH POINT C(F): > 204(400) (ASTM D-93)

FLAMMABILITY (solids): NE

AUTO FLAMMABILITY: NA

EXPLOSIVE PROPERTIES: NA

OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-mmHg 20 C: < 0.1

VAPOR DENSITY: > 2.0

EVAPORATION RATE: NE

RELATIVE DENSITY, 15/4 C: 0.875

SOLUBILITY IN WATER: Negligible

PARTITION COEFFICIENT: > 3.5

VISCOSITY AT 40 C, cSt: 68.0

VISCOSITY AT 100 C, cSt: 8.7

POUR POINT C(F): < -6(22)

FREEZING POINT C(F): NE

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VOLATILE ORGANIC COMPOUND: NE
 DMSO EXTRACT, IP-346 (WT.%): <3, for mineral oil only
 NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES
 FOR FURTHER TECHNICAL INFORMATION, CONTACT YOUR MARKETING REPRESENTATIVE

10. STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable.
 CONDITIONS TO AVOID: Extreme heat and high energy sources of ignition.
 INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.
 HAZARDOUS DECOMPOSITION PRODUCTS: Product does not decompose at ambient temperatures.
 HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL DATA

---ACUTE TOXICOLOGY---

ORAL TOXICITY (RATS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
 DERMAL TOXICITY (RABBITS): Practically non-toxic (LD50: greater than 2000 mg/kg). ---Based on testing of similar products and/or the components.
 INHALATION TOXICITY (RATS): Practically non-toxic (LC50: greater than 5 mg/l). ---Based on testing of similar products and/or the components.
 EYE IRRITATION (RABBITS): Practically non-irritating. (Draize score: greater than 6 but 15 or less). ---Based on testing of similar products and/or the components.
 SKIN IRRITATION (RABBITS): Practically non-irritating. (Primary Irritation Index: greater than 0.5 but less than 3). ---Based on testing of similar products and/or the components.
 OTHER ACUTE TOXICITY DATA: Although an acute inhalation study was not performed with this product, a variety of mineral and synthetic oils, such as those in this product, have been tested. These samples had virtually no effect other than a nonspecific inflammatory response in the lung to the aerosolized mineral oil. The presence of additives in other tested formulations (in approximately the same amounts as in the present formulation) did not alter the observed effects.

---SUBCHRONIC TOXICOLOGY (SUMMARY)---

No significant adverse effects were found in studies using repeated dermal applications of similar formulations to the skin of laboratory animals for 13 weeks at doses significantly higher than those expected during normal industrial exposure. The animals were evaluated extensively for effects of exposure (hematology, serum chemistry, urinalysis, organ weights, microscopic examination of tissues etc.).

---REPRODUCTIVE TOXICOLOGY (SUMMARY)---

No teratogenic effects would be expected from dermal exposure, based on laboratory developmental toxicity studies of major components in this formulation and/or materials of similar composition.

---CHRONIC TOXICOLOGY (SUMMARY)---

Repeated and/or prolonged exposure may cause irritation to the skin, eyes or respiratory tract. Overexposure to oil mist may result in oil droplet deposition and/or granuloma formation. For

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mineral base oils: Base oils in this product are severely solvent refined and/or severely hydrotreated. Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects. These results are confirmed on a continuing basis using various screening methods such as Modified Ames Test, IP-346, and/or other analytical methods. For synthetic base oils: The base oils in this product have been tested in the Ames assay and other tests of mutagenicity with negative results. These base oils are not expected to be carcinogenic with chronic dermal exposures.

--- SENSITIZATION (SUMMARY) ---

Not expected to be sensitizing based on tests of this product, components, or similar products.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS:

In the absence of specific environmental data for this product, this assessment is based on information for representative products. When released into the environment, adsorption to sediment and soil will be the predominant behavior. Available ecotoxicity data (LL50 >1000 mg/L) indicates that adverse effects to aquatic organisms are not expected from this product. Bioaccumulation is unlikely due to the very low water solubility of this product, therefore bioavailability to aquatic organisms is minimal. This product is expected to be inherently biodegradable.

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

RCRA INFORMATION: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity. The unused product is not formulated with substances covered by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

14. TRANSPORT INFORMATION

USA DOT: NOT REGULATED BY USA DOT.
 RID/ADR: NOT REGULATED BY RID/ADR.
 IMO: NOT REGULATED BY IMO.
 IATA: NOT REGULATED BY IATA.
 STATIC ACCUMULATOR (50 picosiemens or less): YES

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15. REGULATORY INFORMATION

US OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this product is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

EU Labeling: Product is not dangerous as defined by the European Union Dangerous Substances/Preparations Directives. EU labeling not required.

Governmental Inventory Status: All components comply with TSCA, EINECS/ELINCS, AICS, and DSL.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:

This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: None.

This product contains no chemicals subject to the supplier notification requirements of SARA (313) toxic release program.

THIS PRODUCT HAS BEEN AUTHORIZED BY USDA FOR USE UNDER THE FOLLOWING CATEGORY: This product is acceptable as a lubricant where there is no possibility of food contact (complies with earlier USDA guidelines for H-2 lubricant use).

The following product ingredients are cited on the lists below:

CHEMICAL NAME	CAS NUMBER	LIST CITATIONS
TRICRESYL PHOSPHATE (>0.04%)	1330-78-5	22
ZINC (ELEMENTAL ANALYSIS) (<0.01%)	7440-66-6	22
PHOSPHORODITHOIC ACID, O,O-DI	68649-42-3	22
C1-14-ALKYL ESTERS, ZINC SALTS (2:1) (ZDDP) (0.09%)		

--- REGULATORY LISTS SEARCHED ---

1=ACGIH ALL	6=IARC 1	11=TSCA 4	16=CA P65 CARC	21=LA RTK
2=ACGIH A1	7=IARC 2A	12=TSCA 5a2	17=CA P65 REPRO	22=MI 293
3=ACGIH A2	8=IARC 2B	13=TSCA 5e	18=CA RTK	23=MN RTK
4=NTP CARC	9=OSHA CARC	14=TSCA 6	19=FL RTK	24=NJ RTK
5=NTP SUS	10=OSHA Z	15=TSCA 12b	20=IL RTK	25=PA RTK
				26=RI RTK

Code key: CARC=Carcinogen; SUS=Suspected Carcinogen; REPRO=Reproductive

16. OTHER INFORMATION

USE: STEAM TURBINE OIL

NOTE: PRODUCTS OF EXXON MOBIL CORPORATION AND ITS AFFILIATED COMPANIES ARE NOT FORMULATED TO CONTAIN PCBs.

Health studies have shown that many hydrocarbons pose potential human health risks which may vary from person to person. Information provided on this MSDS reflects intended use. This product should not be used for other applications. In any case, the following advice should be considered:

INJECTION INJURY WARNING: If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

INDUSTRIAL LABEL

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Under normal conditions of intended use, this product does not pose a risk to health. Excessive exposure may result in eye, skin or respiratory irritation. Always observe good hygiene measures. First Aid: Wash skin with soap and water. Flush eyes with water. If overcome by fumes or vapor, remove to fresh air. If ingested do not induce vomiting. If symptoms persist seek medical assistance. Read and understand the MSDS before using this product.

For Internal Use Only: MHC: 1* 1* 1* 1* 1*, MPPEC: A, TRN: 600163-00, ELIS: 400304, CMCS97: 970172, REQ: US - MARKETING, SAFE USE: I, EHS Approval Date: 21AUG2001

Legally required information is given in accordance with applicable Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and WE EXPRESSLY DISCLAIM ALL WARRANTIES OF EVERY KIND AND NATURE, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE IN RESPECT TO THE USE OR SUITABILITY OF THE PRODUCT. Nothing is intended as a recommendation for uses which infringe valid patents or as extending any license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users. Use or re-transmission of the information contained herein in any other format than the format as presented is strictly prohibited. Mobil neither represents nor warrants that the format, content or product formulas contained in this document comply with the laws of any other country except the United States of America.

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(505) 632-1876 Fax
www.industrialecosystems.com
AaronJMaurer@hotmail.com

“This is bioremediation at its best; fast, effective, and cost efficient”

FACSIMILE TRANSMITTAL SHEET

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To: Martine Kieling

Fax: (505) 476-3462

From: Aaron J. Maurer

Date: ~~9-9-2002~~
9-11-2002

NUMBER OF PAGES (INCLUDING COVER SHEET): ~~X~~ 5

Comments:

Requested MSDS information from Red Cedar Gathering in accordance with the C-138 form.

Thank you,

Aaron J. MAurer

Inter-Mountain Laboratories, Inc.

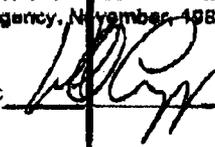
2508 West Main Street
Farmington, NM 87401

Client: Red Cedar Gathering
Project: Antler Coyote Gulch
Sample ID: 052902 - CG 501C
Lab ID: 0302W02310
Matrix: Water
Condition: Cool/Intact

Date Reported: 06/26/02
Date Sampled: 05/29/02
Date Received: 05/29/02
Date Extracted: N/A

Parameter	Analytical Result	PQL	Units
DRO - Method 8015M			
Diesel Range Organics (C10 - C22)	18,000	50	mg/Kg
Quality Control - Surrogate Recovery		%	QC Limits
o-Terphenyl(SUR-8015)	102	70 - 130	

Reference: Method 8015AZ, C10 - C32 Hydrocarbons in Soil, Arizona Department of Health Services, Revision - 1.0, 09/25/88.
SW-846 - "Soil Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1988.

Reviewed By: 

Analyst: _____

Inter-Mountain Laboratories, Inc.

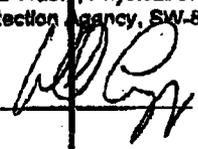
2806 West Main Street
Farmington, NM 87401

Client: Red Cedar Gathering
Project: Antler Coyote Gulch
Sample ID: 052902 - CG 5012
Lab ID: 0302W02310
Matrix: Water
Condition: Cool/Intact

Date Reported: 08/28/02
Date Sampled: 05/29/02
Date Received: 05/29/02
Date Extracted: N/A

Parameter	Analytical Result	PQL	Units
BTEX - Method 8021B			
Benzene	<5	5	mg/Kg
Toluene	9	5	mg/Kg
Ethylbenzene	<5	5	mg/Kg
Xylenes (total)	<15	15	mg/Kg
Quality Control - Surrogate Recovery		%	QC Limits
4-Bromofluorobenzene (SUR-8021B)	101		70 - 130

Reference: Method 8021b, Volatile Organic Compounds, Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, United States Environmental Protection Agency, SW-846, Volume 1B.

Reviewed By: 

Analyst: _____

Inter Mountain Laboratories, Inc.

2508 West Main Street
Farmington, NM 87401

Client: Red Cedar Gathering
Project: Antler Coyote Gulch
Sample ID: 052802 - CG 800
Lab ID: 0302W 2310
Matrix: Water
Condition: Cool/In tact

Date Reported: 06/28/02
Date Sampled: 05/29/02
Date Received: 05/29/02
Date Extracted: N/A
Date Analyzed: 05/30/02

Parameter	Analytical Result	PQL	Units
RCI			
Corrosivity -pH	8.7		s.u.
Flash Point	>140		°F
Reactivity - HCN	<10	10	mg/Kg
Reactivity-H2S	<100	100	mg/Kg

Reference: SW-848 - Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November, 1985.
SW-848 - Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, Final Update 1, July 1992.

Reviewed By: 

Analyst: _____

Inter-Mountain Laboratories, Inc.

2506 West Main Street
Farmington, NM 87401

Client: Red Cedar Gathering
Project: Antler / Coyote Gulch
Sample ID: 052902 - CG-501
Lab ID: 0302W2310
Matrix: Water
Condition: Cool/Intact

Date Reported: 06/28/02
Date Sampled: 05/29/02
Date Received: 05/29/02
Date Extracted: N/A
Date Analyzed: 06/10/02

Parameter	Analytical Result	PQL	Units
TOTAL METALS - Method 3050			
Arsenic	<8	6	mg/Kg
Barium	222	1	mg/Kg
Cadmium	0.7	0.5	mg/Kg
Chromium	8	1	mg/Kg
Lead	10	5	mg/Kg
Mercury	<0.06	0.06	mg/Kg
Selenium	<4	4	mg/Kg
Silver	<2	2	mg/Kg

Reference: SW-846 - Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*, United States Environmental Protection Agency, November, 1986.
SW-846 - Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*, United States Environmental Protection Agency, Final Update 1, July 1992.

Reviewed By: 

Analyst: _____

Inter-Mountain Laboratories, Inc.

2506 West Main Street
Farmington, NM 87401

Client: Red Cedar Gathering
Project: Antler / Coyote Gulch
Sample ID: 052902 - CS-100
Lab ID: 0302W02310
Matrix: Water
Condition: Cool/intact

Date Reported: 07/16/02
Date Sampled: 05/29/02
Date Received: 05/29/02
Date Analyzed: 07/09/02

Parameter	Analytical Result	PQL	MCL	Units
Method 1311 - TCLP Metals				
Barium	1.0	0.5	100	mg/L
Chromium	<0.02	0.02	5.0	mg/L
Lead	<0.1	0.1	5.0	mg/L

Reference: SW-846 - "Test Methods for Evaluating Solid Waste: Physical/Chemical Methods", United States Environmental Protection Agency, November 1986.

Reviewed By: 