

#### 1. Identification of the Substance/Preparation and Company

Product name: Ferrosilicon alloys

Application of FeSi: Additive to steel, and to steel- and iron foundry products.

Address/Phone No: Elkem ASA Silicon Division

Hoffsveien 65B

P. O. Box 5211 Majorstua N-0303 OSLO, Norway Tlf: + 47 22 45 01 00 Fax: + 47 22 45 04 95

http://www.silicon.elkem.no/

Contact person: Ole Svein Klevan (ole-svein.klevan@elkem.no)

Emergency Phone No.: Not applicable

#### 2. Composition/Information on Ingredients

Synonyms/Trade names: FeSi, (45, 65, 75, 90 or 92%) Si, Std. and Refined

CAS No.: 8049-17-0
HAZARDOUS INGREDIENT(S): None
Symbol: None
R and S Phrases: None

Weight%
Constituents (analysis):
Silicon (Si)
43 – 93

0.05 - 4 Aluminium (AI) 0.1 - 7.5Calcium (Ca) Manganese (Mn) < 0.2 Titanium (Ti) < 0.15 Copper (Cu) < 0.1 Chromium (Cr) < 0.1 Carbon (C) < 0.05 Iron (Fe) Rest

#### 3. Hazards Identification

The product does not represent a hazard to health, safety or environment when handled and stored as advised. (See section 7).

Flammable and noxious gases may be formed in contact with moisture, acids or bases. (See section 10 and 11). FeSi-dust suspended in air may under certain conditions cause dust explosions. (See section 10).

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#### 4. First Aid Measures

Inhalation: Irritation caused by dust: Fresh air. See a physician on persistent feeling of discomfort.

Phosphine/arsine intoxication: Seek medical attention. (See section 11).

Skin contact: Wash skin with water and/or a mild detergent.

Eye contact: Rinse eyes with water/saline solution. See a physician on persistent feeling of discomfort.

Ingestion: Remove the person affected from dust-exposed area. See inhalation.

#### 5. Fire Fighting Measures

Extinguishing media: Dry sand, CO<sub>2</sub> or dry powder.

Dry FeSi in the form of lumps or granules is not combustible.

FeSi-dust suspended in air may under certain conditions cause dust explosions. (See section 10).

#### 6. Accidental Release Measures

Material in the form of dust should be collected in suitable containers. Damp product must be kept away from dry, and must not be collected and stored in closed containers. Dry dust can be vacuumed or swept up.

## 7. Handling and Storage

Handling: Avoid handling that generates dust build-up. Avoid inhalation of dust. (See section 8). Avoid ignition

sources (e.g. welding) in areas with high dust concentrations. Addition of wet material to molten

metal may cause explosions. (See section 10).

Storage: FeSi must be kept in a dry and well-ventilated place, and away from acids and bases.

#### 8. Exposure Controls/Personal Protection

#### A. Occupational exposure controls

Eye protection, eye flushing facilities and protective gloves. Ensure good ventilation. Wear a particulate respirator according to EN 149 FFP 2S in areas of inadequate ventilation. If exposure to phosphine and arsine is suspected (see section 10) in areas of poor ventilation (e.g. storage holds, bunkers etc.), a self-contained breathing apparatus or an air fed respirator should be worn.

Occupational Exposure Limits (OEL): (see Health and Safety Executive document EH40/2002/2003):

	CAS Number	8 hr TWA		10 minute STEL	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Total inhalable dust		-	10	-	-
Respirable dust		-	4	-	-
Phosphine gas (PH <sub>3</sub> )	7803-51-2	-	-	0.3	0.42
Arsine gas (AsH <sub>3</sub> )	7784-42-1	0.05	0.16	_	_

The low occupational exposure limit for arsine gas is due to the evidence for carcinogenicity in humans of inorganic arsenic compounds in general (IARC). Elkem has devised a procedure (1994) for sampling and measuring of the workplace atmosphere.

The OEL for dust does not cover possible arsine/phosphine absorption from dust deposited on mucous membranes.

#### B. Environmental exposure controls

See Sections 6, 7 and 12.

Limit values in ambient air (Council Directive 1999/30/EC)

Averaging period Limit value Date by which limit value is to be met

PM $_{10}$  ★ 24 hours 50  $\mu$ g/m $^3$  1 January 2005 PM $_{10}$  Calendar year 40  $\mu$ g/m $^3$  1 January 2005

★ Not to be exceeded more than 35 times a calendar year.

#### 9. Physical and Chemical Properties

Form : Lump material. Granulate. Sieve fractions. Cyclone dust.

Colour : Silvery grey, metallic surface.

Odour : Odourless.

Solubility (Water) : Insoluble/ slightly soluble.

Si (weight%): 45 50 65 75 90 Melting Point (°C) Approx: 1290 1215 1280 1350 1400 Specifc gravity (water = 1) Approx: 4,4 4,2 3,6 3,2 2,7

#### 10. Stability and Reactivity

#### Conditions to avoid:

Avoid generating sparks and other ignition sources (e.g. welding) in areas with high dust concentrations. FeSi-particles suspended in air at concentrations above 100-300 g/m $^3$  can cause dust explosions. For a given particle size, the ignition sensitivity and the violence of explosion decrease with decreasing Si/Fe ratio. Dust with Si/Fe ratio  $\leq$ 2 and particle diameter >10  $\mu$ m, is considered not to represent any danger of explosion.

Addition of wet material to molten metal may cause explosions.

#### Materials to avoid:

Water/humidity, acids and bases.

#### Hazardous decomposition products:

Highly flammable hydrogen gas  $(H_2)$  and the highly flammable and very toxic gases phosphine and arsine (garlic-like smell), both heavier than air, may be formed if FeSi gets in contact with moisture, acids or bases. A reaction with hydrofluoric acid (HF) or nitric acid (HNO<sub>3</sub>) leads to the formation of toxic gases such as silicon tetrafluoride (SiF<sub>4</sub>) or nitrous gases (NOx).

Wet product will form highly flammable hydrogen gas if added to molten metal, due to decomposition of water.

#### 11. Toxicological Information

#### Acute effects:

Inhalation: Finely divided dust may irritate and dehydrate mucous membranes.

Phosphine/arsine may be absorbed from dust deposited on mucous membranes.

The toxic mechanism for phosphine is not clear. Phosphine irritates exposed mucous membranes, depresses the central nervous system (CNS) and can cause edema of the lungs. Acute, non-fatal poisoning with phosphine gives temporary effects, among others headache, malaise, vomiting,

stomach pains, cough, and difficulty in breathing.

Skin contact: Dust may irritate the skin.

Eye contact: Dust may irritate and lead to dryness.

# **Chronic effects:**

No adverse chronic effects expected, based on both practical experience and review of available scientific literature. Historic, epidemiological studies covering cohorts of workers in the Norwegian ferro-alloy industry have been carried out.

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#### 12. Ecological Information

The product is not characterised as dangerous for the environment.

The alloy has poor mobility under normal environmental conditions. MOBILITY:

PERSISTENCE: Not relevant for the elements in the alloy.

BIOACCUMULATION: Not relevant, due to low mobility and non-dispersive use.

ECO-TOXICITY: LC<sub>50</sub>/LD<sub>50</sub>: Not determined. Hardly relevant for inorganic, insoluble substances.

#### 13. Disposal Considerations

The material should be recovered for recycling where possible.

Disposal of materials must conform to the requirements of Section 34 of the Environmental Protection Act 1990. This material is not classed as "Special Waste" under the Control of Pollution (Special Waste) Regulations (2001). Prior to disposal of large quantities of this material, advice should be sought from the nearest Environment Agency.

#### 14. Transport Information

UN no. 1408

IMO/BC-Code<sup>2), 3)</sup>: (30-90)% Si, Class 4.3

BC-no.: 022

IMO/BC-Code<sup>2), 3)</sup>: (25-30) and >90)% Si, Class MHB

IMDG-code<sup>1</sup> Not assigned to class 4.3 ICAO/IATA<sup>1)</sup> Not assigned to class 4.3 ADR/RID1) Not assigned to class 4.3

- 1) Consignments of ferrosilicon with a chemical analysis as described in section 2 has been tested according to "United Nations Recommendations on the Transport of Dangerous Goods, Manual of Test and Criteria Part III - 33.4.1.4" and has passed the test. Consequently, the product is not classified as a Class 4.3 product.
- 2) The shipment must be stored under cover, but in open air, in the particle size in which it is to be shipped, for no less than three days prior to shipment.

IMO's "Code of Safe Practice for Solid Bulk Cargoes".

## 15. Regulatory Information

Product classification and labelling:

Symbol: Not subject to classification.

R-phrases: None. S-phrases: None.

The text of this Safety Data Sheet is prepared in compliance with:

- Chemicals (Hazard Information and Packaging) Regulations 2002
- Directives 2001/58/EC and 1999/45/EC

#### 16. Other Information

Literature references are available upon application to the manufacturer.

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#### BRINE

**Division of Facilities Services** DOD Hazardous Material Information (ANSI Format) For Cornell University Convenience Only

# **BRINE**

Section 1 - Product and Company Identification Section 9 - Physical & Chemical Properties

Section 2 - Compositon/Information on Ingredients Section 10 - Stability & Reactivity Data

Section 3 - Hazards Identification Including Emergency Overview Section 11

- Toxicological Information

Section 4 - First Aid Measures Section 12 - Ecological Information

Section 5 - Fire Fighting Measures Section 13 - Disposal Considerations

Section 6 - Accidental Release Measures Section 14 - MSDS Transport Information

Section 7 - Handling and Storage Section 15 - Regulatory Information

Section 8 - Exposure Controls & Personal Protection Section 16 - Other Information

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Section 1 - Product and Company Identification BRINE

**Product Identification: BRINE** 

Date of MSDS: 01/01/1987 Technical Review Date: 06/10/1987

FSC: 6810 NIIN: LIIN: 00F005060

Submitter: F BT Status Code: C

MFN: 01 Article: N Kit Part: N

Manufacturer's Information

Manufacturer's Name: GREAT SALT LAKE MINERAL & CHEM/OGDEN, UT 84402

Manufacturer's Address1:

Manufacturer's Address2: N/P, NK 00000

Manufacturer's Country: NK General Information Telephone:

Emergency Telephone: (801) 731-3100 Emergency Telephone: (801) 731-3100

MSDS Preparer's Name: N/P

Proprietary: N Reviewed: Y Published: Y CAGE: 40167

Special Project Code: N

**Contractor Information** 

Contractor's Name: GREAT SALT LAKE MINERAL & CHEMICAL CORP

Contractor's Address1: 765 N 10500 W Contractor's Address2: OGDEN, UT 84404 Contractor's Telephone: 801-731-3100

Contractor's CAGE: 40167

# Section 2 - Compositon/Information on Ingredients

**BRINE** 

Ingredient Name: MAGNESIUM CHLORIDE (28-32%)

Ingredient CAS Number: 7786-30-3 Ingredient CAS Code: M

RTECS Number: OM2800000 RTECS Code: M

=WT: =WT Code:

=Volume: =Volume Code:

>WT: >WT Code:

>Volume: >Volume Code:

<WT: <WT Code:

<Volume: <Volume Code:

% Low WT: % Low WT Code:

% High WT: % High WT Code:

% Low Volume: % Low Volume Code:

% High Volume: % High Volume Code:

% Text: 32%

% Environmental Weight: Other REC Limits: N/P

OSHA PEL: N/P OSHA PEL Code: OSHA STEL: OSHA STEL Code:

ACGIH TLV: N/K ACGIH TLV Code: M ACGIH STEL: N/P ACGIH STEL Code:

EPA Reporting Quantity: DOT Reporting Quantity: Ozone Depleting Chemical: N

Section 3 - Hazards Identification, Including Emergency Overview BRINE

Health Hazards Acute & Chronic: N/P

Signs & Symptoms of Overexposure:

 $N/K_{-}$ 

Medical Conditions Aggravated by Exposure:

N/P

LD50 LC50 Mixture: N/P

Route of Entry Indicators:

Inhalation: N/P

Skin: N/P

Ingestion: N/P

Carcenogenicity Indicators

NTP: N/P IARC: N/P OSHA: N/P

Carcinogenicity Explanation: N/P

Section 4 - First Aid Measures BRINE

First Aid:

ORAL INGESTION OF LARGE DOSES WOULD CAUSE GI IRRITATION. FLUSH WITH WATER.

Section 5 - Fire Fighting Measures BRINE

Fire Fighting Procedures:

**NONE** 

Unusual Fire or Explosion Hazard:

N/K

Extinguishing Media:

NOT FLAMMABLE

Flash Point: Flash Point Text: N/K

**Autoignition Temperature:** 

Autoignition Temperature Text: N/A

Lower Limit(s): N/K Upper Limit(s): N/K

Section 6 - Accidental Release Measures BRINE

Spill Release Procedures:

FLUSH WITH WATER

Section 7 - Handling and Storage BRINE

Handling and Storage Precautions:

# Other Precautions:

Section 8 - Exposure Controls & Personal Protection **BRINE** 

**Repiratory Protection:** 

**NONE** 

Ventilation:

N/K

**Protective Gloves:** 

N/K

**Eye Protection: GLASSES** 

Other Protective Equipment: N/K Work Hygenic Practices: N/P

Supplemental Health & Safety Information: MSDS UDATED.

Section 9 - Physical & Chemical Properties

**BRINE** 

HCC:

NRC/State License Number:

Net Property Weight for Ammo:

Boiling Point: Boiling Point Text: 212F

Melting/Freezing Point: Melting/Freezing Text: N/A Decomposition Point: Decomposition Text: N/A

Vapor Pressure: N/K Vapor Density: N/K

Percent Volatile Organic Content:

Specific Gravity: 1.32

Volatile Organic Content Pounds per Gallon:

pH: N/P

Volatile Organic Content Grams per Liter:

Viscosity: N/P

Evaporation Weight and Reference: (WATER =1): 1

Solubility in Water: SOLUBLE Appearance and Odor: N/K

file: ///C|Documents%20 and %20 Settings/dswisher/My%20 Documents/P... iron mental %20 &%20 Permit/Permit%20 Apps/MVEIRB/DAR/MSDS/BRINE.txtPercent Volatiles by Volume: 100% Corrosion Rate: N/P Section 10 - Stability & Reactivity Data **BRINE** Stability Indicator: YES Materials to Avoid: **NONE** Stability Condition to Avoid: N/K Hazardous Decomposition Products: **CHLORINE** Hazardous Polymerization Indicator: NO Conditions to Avoid Polymerization: N/K Section 11 - Toxicological Information **BRINE Toxicological Information:** N/P Section 12 - Ecological Information **BRINE Ecological Information:** N/P

Section 13 - Disposal Considerations **BRINE** 

# Waste Disposal Methods:

# SOLUBLE IN WATER - NEUTRAL OR SLIGHTLY BASIC SOLUTION OCCURS.

Section 14 - MSDS Transport Information BRINE

**Transport Information:** 

N/P

Section 15 - Regulatory Information BRINE

**SARA** Title III Information:

N/P

Federal Regulatory Information:

N/P

State Regulatory Information:

N/P

Section 16 - Other Information BRINE

Other Information:

N/P

HAZCOM Label Information Product Identification: BRINE

CAGE: 40167

Assigned Individual: N

Company Name: GREAT SALT LAKE MINERAL & CHEMICAL CORP

Company PO Box:

Company Street Address1: 765 N 10500 W

Company Street Address2: OGDEN, UT 84404 US

Health Emergency Telephone: (801) 731-3100

Label Required Indicator: Y

Date Label Reviewed: 12/16/1998

Status Code: C

Manufacturer's Label Number: Date of Label: 12/16/1998

Year Procured: N/K Organization Code: G

Chronic Hazard Indicator: N/P Eye Protection Indicator: N/P Skin Protection Indicator: N/P

Respiratory Protection Indicator: N/P

Signal Word: N/P Health Hazard: Contact Hazard: Fire Hazard:

Reactivity Hazard:

8/8/2002 7:53:35 AM

#### #1 DIESEL LOW SULPHUR

Division of Facilities Services DOD Hazardous Material Information (ANSI Format) For Cornell University Convenience Only

#### #1 DIESEL LOW SULPHUR

Section 1 - Product and Company Identification Section 9 - Physical &

**Chemical Properties** 

Section 2 - Compositon/Information on Ingredients Section 10 - Stability &

Reactivity Data

Section 3 - Hazards Identification Including Emergency Overview Section 11

- Toxicological Information

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Section 7 - Handling and Storage Section 15 - Regulatory Information

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Information

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Section 1 - Product and Company Identification #1 DIESEL LOW SULPHUR

Product Identification: #1 DIESEL LOW SULPHUR

Date of MSDS: 10/01/1993 Technical Review Date: 10/12/1994

FSC: 9140 NIIN: 00-000-0185

Submitter: D DG Status Code: C

MFN: 01

Article: N Kit Part: N

Manufacturer's Information

Manufacturer's Name: BELL FUELS INC

Manufacturer's Address1: 4116 W PETERSON AVE Manufacturer's Address2: CHICAGO, IL 60646-6017

Manufacturer's Country: US

General Information Telephone: 312-286-0200

Emergency Telephone: 312-286-0200 Emergency Telephone: 312-286-0200 MSDS Preparer's Name: UNKNOWN

Proprietary: N Reviewed: Y Published: Y CAGE: 8P539

Special Project Code: N

Item Description

Item Name: USED TO BE 26648

Item Manager:

Specification Number: NK Type/Grade/Class: NK Unit of Issue: GL

Unit of Issue Quantity: X

Type of Container:

**Contractor Information** 

Contractor's Name: BELL FUELS INC

Contractor's Address1: 4116 W PETERSON AVE Contractor's Address2: CHICAGO, IL 60646-6017

Contractor's Telephone: 312-286-0200

Contractor's CAGE: 8P539

# Section 2 - Compositon/Information on Ingredients #1 DIESEL LOW SULPHUR

Ingredient Name: AROMATIC HYDROCARBONS Ingredient CAS Number: Ingredient CAS Code: X

RTECS Number: RTECS Code: X

=WT: =WT Code:

=Volume: =Volume Code:

>WT: >WT Code:

>Volume: >Volume Code:

<WT: <WT Code:

- <Volume: <Volume Code:
- % Low WT: % Low WT Code:
- % High WT: % High WT Code:
- % Low Volume: % Low Volume Code:
- % High Volume: % High Volume Code:
- % Text: 17-25
- % Environmental Weight:
- Other REC Limits: NONE RECOMMENDED
- OSHA PEL: NOT ESTABLISHED OSHA PEL Code: M
- OSHA STEL: OSHA STEL Code:
- ACGIH TLV: NOT ESTABLISHED ACGIH TLV Code: M
- ACGIH STEL: N/P ACGIH STEL Code:
- EPA Reporting Quantity: DOT Reporting Quantity:
- Ozone Depleting Chemical:

Ingredient Name: SATURATED HYDROCARBONS (PARAFFINS & CYCLOPARAFFINS)

Ingredient CAS Number: Ingredient CAS Code: X

RTECS Number: RTECS Code: X

- =WT: =WT Code:
- =Volume: =Volume Code:
- >WT: >WT Code:
- >Volume: >Volume Code:
- <WT: <WT Code:
- <Volume: <Volume Code:
- % Low WT: % Low WT Code:
- % High WT: % High WT Code:
- % Low Volume: % Low Volume Code:
- % High Volume: % High Volume Code:
- % Text: 70-80
- % Environmental Weight:
- Other REC Limits: NONE RECOMMENDED
- OSHA PEL: NOT ESTABLISHED OSHA PEL Code: M
- OSHA STEL: OSHA STEL Code:
- ACGIH TLV: NOT ESTABLISHED ACGIH TLV Code: M
- ACGIH STEL: N/P ACGIH STEL Code:
- **EPA Reporting Quantity:**
- **DOT Reporting Quantity:**
- Ozone Depleting Chemical:

Ingredient Name: UNSATURATED HYDROCARBONS (OLEFINS)

Ingredient CAS Number: Ingredient CAS Code: X

RTECS Number: RTECS Code: X

- =WT: =WT Code:
- =Volume: =Volume Code:
- >WT: >WT Code:
- >Volume: >Volume Code:

<WT: <WT Code:

<Volume: <Volume Code:

% Low WT: % Low WT Code:

% High WT: % High WT Code:

% Low Volume: % Low Volume Code:

% High Volume: % High Volume Code:

% Text: 3-6

% Environmental Weight:

Other REC Limits: NONE RECOMMENDED

OSHA PEL: NOT ESTABLISHED OSHA PEL Code: M

OSHA STEL: OSHA STEL Code:

ACGIH TLV: NOT ESTABLISHED ACGIH TLV Code: M

ACGIH STEL: N/P ACGIH STEL Code:

EPA Reporting Quantity: DOT Reporting Quantity: Ozone Depleting Chemical:

Section 3 - Hazards Identification, Including Emergency Overview #1 DIESEL LOW SULPHUR

Health Hazards Acute & Chronic: NONE SPECIFIED BY MANUFACTURER.

Signs & Symptoms of Overexposure:

EYE: CAUSE LITTLE OR NO INJURY ON DIRECT CONTACT. SKIN: MAY CAUSE IRRITATION ON PROLONGED AND REPEATED CONTACT. SYSTEMIC: INHALATION OF HIGH CONCENTRATIONS OF VAPOR MAY RESULT IN BRONCHITIS, PNEUMONIA, BLOOD CHANGES, POLYNEURITIES, RESPIRATORY DISTURBANCES, DERMATITIS.

Medical Conditions Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.

LD50 LC50 Mixture: ORAL LD50 (RAT) IS UNKNOWN

Route of Entry Indicators:

Inhalation: YES

Skin: YES

**Ingestion: YES** 

Carcenogenicity Indicators

NTP: N/P IARC: N/P OSHA: N/P

Carcinogenicity Explanation: N/P

Section 4 - First Aid Measures #1 DIESEL LOW SULPHUR

#### First Aid:

EYE: RINSE EYES THOROUGHLY WITH WATER. SKIN: WASH AFFECTED AREA THOROUGHLY WITH SOAP AND WATER. INHALATION: REMOVE FROM CONTAMINATED AREA. CALL A PHYSICIAN. INGESTION: GIVE VEGETABLE OIL OR A CHARCOAL SLURRY. DO NOT INDUCE VOMITING. CALL APHYSICIAN.

Section 5 - Fire Fighting Measures #1 DIESEL LOW SULPHUR

Fire Fighting Procedures:

AVOID USE OF SOLID WATER STREAMS. AVOID EXCESSIVE WATER SPRAY APPLICATION. WATER CAN BE USED TO COOL EXPOSED SURFACES.

Unusual Fire or Explosion Hazard:

**COMBUSTIBLE LIQUID** 

Extinguishing Media:

ANY U.L. APPROVED CLASS B MEDIA, FOAM, CARBON DIOXIDE OR DRY CHEMICAL.

Flash Point: Flash Point Text: 120F,49C

**Autoignition Temperature:** 

Autoignition Temperature Text: N/A

Lower Limit(s): 0.7 Upper Limit(s): 5.0

Section 6 - Accidental Release Measures #1 DIESEL LOW SULPHUR

## Spill Release Procedures:

SMALL SPILLS: ABSORB LIQUID ON PAPER, VERMICULITE, FLOOR ABSORBENT OR OTHER ABSORBENT MATERIAL AND TRANSFER TO HOOD. LARGE SPILL: ELIMINATE ALL IGNITION SOURCES. STOP SPILL AT SOURCE, DIKE AREA OF SPI LL TO PREVENT SPREAD, PUMP LIQUID TO SALVAGE.

Section 7 - Handling and Storage #1 DIESEL LOW SULPHUR

# Handling and Storage Precautions:

Other Precautions:

Section 8 - Exposure Controls & Personal Protection #1 DIESEL LOW SULPHUR

**Repiratory Protection:** 

APPROVED ORGANIC VAPOR CHEMICAL CARTRIDGE OR SUPPLIED AIR RESPIRATORS.

Ventilation:

LOCAL EXHAUST REQUIRED. SPECIAL VENTILATION: EXPLOSION PROOF EQUIPMENT.

MECHANICAL VENTILATION SHOULD BE EXPLOSION-PROOF

Protective Gloves:

**IMPERMEABLE** 

Eye Protection: NONE SPECIFIED BY MANUFACTURER.

Other Protective Equipment: RESPIRATORY PROTECTION FOR MISTS AND HIGH VAPOR.

CHEMICAL CARTRIDGE RESPIRATOR OR AIR SUPPLIED EQUIPMENT

Work Hygenic Practices: WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING,

DRINKING OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Health & Safety Information: NONE

Section 9 - Physical & Chemical Properties #1 DIESEL LOW SULPHUR

HCC: F4

NRC/State License Number: N/R Net Property Weight for Ammo: N/R

Boiling Point: Boiling Point Text: 325F,163C

Melting/Freezing Point: Melting/Freezing Text: UNKNOWN Decomposition Point: Decomposition Text: UNKNOWN Vapor Pressure: 1-10 @100F Vapor Density: 4-5 (AIR=1

Percent Volatile Organic Content: Specific Gravity: 0.8 (WATER=1)

Volatile Organic Content Pounds per Gallon:

pH: N/R

Volatile Organic Content Grams per Liter:

Viscosity: N/P

Evaporation Weight and Reference: UNKNOWN

Solubility in Water: NEGLIGIBLE

Appearance and Odor: WATER WHITE TO STRAW TINT LIQUID; AROMATIC ODOR.

Percent Volatiles by Volume: N/R Corrosion Rate: UNKNOWN

Section 10 - Stability & Reactivity Data #1 DIESEL LOW SULPHUR

Stability Indicator: YES Materials to Avoid:

**OXIDIZERS** 

Stability Condition to Avoid:

NONE SPECIFIED BY MANUFACTURER.

**Hazardous Decomposition Products:** 

NONE SPECIFIED BY MANUFACTURER.

Hazardous Polymerization Indicator: NO

Conditions to Avoid Polymerization:

**NOT RELEVANT** 

Section 11 - Toxicological Information #1 DIESEL LOW SULPHUR

Toxicological Information:

N/P

Section 12 - Ecological Information #1 DIESEL LOW SULPHUR

**Ecological Information:** 

N/P

Section 13 - Disposal Considerations #1 DIESEL LOW SULPHUR

Waste Disposal Methods:

ALLOW VOLITLE PORTION TO EVAPORATE IN HOOD. ALLOW SUFFICIENT TIME FOR VAPORS TO COMPLETELY CLEAR HOOD. DISPOSE OF IN ACCORDANCE WITH APPLICIABLE REGULATIONS.

# LARGE SPILLS: DESTROY BY LIQUID INCINERATI ON IN ACCORDANCE WITH APPLICIABLE REGULATIONS.

Section 14 - MSDS Transport Information #1 DIESEL LOW SULPHUR

**Transport Information:** 

N/P

Section 15 - Regulatory Information #1 DIESEL LOW SULPHUR

**SARA** Title III Information:

N/P

Federal Regulatory Information:

N/P

State Regulatory Information:

N/P

Section 16 - Other Information #1 DIESEL LOW SULPHUR

Other Information:

N/P

**HMIS Transportation Information** 

Product Identification: #1 DIESEL LOW SULPHUR

Transporation ID Number: 43140 Responsible Party CAGE: 8P539 Date MSDS Prepared: 10/01/1993 Date MSDS Reviewed: 10/12/1994

MFN: 10/12/1994 Submitter: D DG Status Code: C

Container Information Unit of Issue: GL Container Quantity: X Type of Container: Net Unit Weight:

Article without MSDS: N

Technical Entry NOS Shipping Number: SATURATED HYDROCARBONS (PARAFFINS &

CYCLOPARAFFINS); AROMATIC HYDROCARBONS.

Radioactivity:

Form:

Net Explosive Weight:

Coast Guard Ammunition Code:

Magnetism: N/P AF MMAC Code:

DOD Exemption Number: Limited Quantity Indicator: Multiple Kit Number: 0

Kit Indicator: N Kit Part Indicator: N Review Indicator: Y Additional Data:

Department of Transportation Information

DOT Proper Shipping Name: FLAMMABLE LIQUIDS, N.O.S.

DOT PSN Code: GJL

Symbols: G

**DOT PSN Modifier:** 

Hazard Class: 3

UN ID Number: UN1993 DOT Packaging Group: III Label: FLAMMABLE LIQUID Special Provision(s): B1,B52,T7,T30

Packaging Exception: 150 Non Bulk Packaging: 203 Bulk Packaging: 242

Maximimum Quanity in Passenger Area: 60 L Maximimum Quanity in Cargo Area: 220 L

Stow in Vessel Requirements: A Requirements Water/Sp/Other:

**IMO** Detail Information

IMO Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. o

IMO PSN Code: HIA IMO PSN Modifier:

IMDG Page Number: 3345

UN Number: 1993 UN Hazard Class: 3.3 IMO Packaging Group: III Subsidiary Risk Label: - EMS Number: 3-07

Medical First Aid Guide Number: T

IATA Detail Information

IATA Proper Shipping Name: FLAMMABLE LIQUID, N.O.S. \*

IATA PSN Code: MCA IATA PSN Modifier:

IATA UN Id Number: 1993

IATA UN Class: 3 Subsidiary Risk Class: UN Packaging Group: III

IATA Label: FLAMMABLE LIQUID Packaging Note for Passengers: 309 Maximum Quantity for Passengers: 60L

Packaging Note for Cargo: 310 Maximum Quantity for Cargo: 220L

**Exceptions:** 

**AFI Detail Information** 

AFI Proper Shipping Name: FLAMMABLE LIQUIDS, N.O.S.

AFI Symbols: \*

AFI PSN Code: MCA AFI PSN Modifier:

AFI UN Id Number: UN1993

AFI Hazard Class: 3 AFI Packing Group: III

AFI Label:

Special Provisions: P5
Back Pack Reference: A7.3

**HAZCOM Label Information** 

Product Identification: #1 DIESEL LOW SULPHUR

**CAGE: 8P539** 

Assigned Individual: N

Company Name: BELL FUELS INC

Company PO Box:

Company Street Address1: 4116 W PETERSON AVE Company Street Address2: CHICAGO, IL 60646-6017 US

Health Emergency Telephone: 312-286-0200

Label Required Indicator: Y

Date Label Reviewed: 10/12/1994

Status Code: C

Manufacturer's Label Number: NONE

Date of Label: 10/12/1994

Year Procured: N/K Organization Code: F

Chronic Hazard Indicator: N/P Eye Protection Indicator: YES Skin Protection Indicator: YES

Respiratory Protection Indicator: YES

Signal Word: WARNING Health Hazard: Moderate Contact Hazard: Slight Fire Hazard: Slight

Reactivity Hazard: None

8/8/2002 3:01:07 AM

## DTE 25 HYDRAULIC OIL

Division of Facilities Services DOD Hazardous Material Information (ANSI Format) For Cornell University Convenience Only

#### DTE 25 HYDRAULIC OIL

Section 1 - Product and Company Identification Section 9 - Physical & Chemical Properties

Section 2 - Compositon/Information on Ingredients Section 10 - Stability & Reactivity Data

Section 3 - Hazards Identification Including Emergency Overview Section 11

- Toxicological Information

Section 4 - First Aid Measures Section 12 - Ecological Information

Section 5 - Fire Fighting Measures Section 13 - Disposal Considerations

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Section 7 - Handling and Storage Section 15 - Regulatory Information

Section 8 - Exposure Controls & Personal Protection Section 16 - Other

Information

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Section 1 - Product and Company Identification DTE 25 HYDRAULIC OIL

Product Identification: DTE 25 HYDRAULIC OIL

Date of MSDS: 12/27/1993 Technical Review Date: 03/20/1996

FSC: 9150 NIIN: 00-993-6621

Submitter: D DG Status Code: C

MFN: 02 Article: N Kit Part: N

Manufacturer's Information

Manufacturer's Name: MOBIL OIL CORPORATION

Post Office Box: 3311

Manufacturer's Address1: BEAUMOUNT REFINERY INTERSTATE 10

Manufacturer's Address2: BEAUMONT, TX 77704

Manufacturer's Country: US

General Information Telephone: 800-662-4525

Emergency Telephone: 609-737-4411/800-424-9300(CHEMTREC) Emergency Telephone: 609-737-4411/800-424-9300(CHEMTREC)

MSDS Preparer's Name: UNKNOWN

Proprietary: N Reviewed: Y Published: Y CAGE: 19135

Special Project Code: N

Item Description

Item Name: LUBRICATING OIL, GENERAL PURPOSE

Item Manager: S9G

Specification Number: N/R Type/Grade/Class: N/R

Unit of Issue: DR Quantitative Expression: 00000000055GL

Unit of Issue Quantity: 0

Type of Container: STEEL 18/18

**Contractor Information** 

Contractor's Name: MOBIL OIL CORPORATION

Post Office Box: 3311

Contractor's Address1: BEAUMOUNT REFINERY INTERSTATE 10

Contractor's Address2: BEAUMONT, TX 77704

Contractor's Telephone: 609-737-4411/800-424-9300(CHEMTREC)

Contractor's CAGE: 19135

# Section 2 - Compositon/Information on Ingredients

DTE 25 HYDRAULIC OIL

Ingredient Name: MINERAL OIL, PETROLEUM DISTILLATE, SOLVENT DEWAXED (MILD),

**HEAVY PARAFFINIC** 

Ingredient CAS Number: 64742-65-0 Ingredient CAS Code: M

RTECS Number: PY8038500 RTECS Code: M

=WT: =WT Code:

=Volume: =Volume Code:

>WT: >WT Code:

>Volume: >Volume Code:

<WT: <WT Code:

<Volume: <Volume Code:

% Low WT: % Low WT Code:

% High WT: % High WT Code:

% Low Volume: % Low Volume Code:

% High Volume: % High Volume Code:

% Text: >95

% Environmental Weight:

Other REC Limits: NONE RECOMMENDED

OSHA PEL: NOT ESTABLISHED OSHA PEL Code: M

OSHA STEL: OSHA STEL Code:

ACGIH TLV: NOT ESTABLISHED ACGIH TLV Code: M

ACGIH STEL: N/P ACGIH STEL Code:

EPA Reporting Quantity: DOT Reporting Quantity: Ozone Depleting Chemical: N

Ingredient Name: MINERAL OIL, HYDROTREATED (SEVERE), PETROLEUM DISTILLATE, HEAVY

**PARAFFINIC** 

Ingredient CAS Number: 64742-54-7 Ingredient CAS Code: M

RTECS Number: PY8035501 RTECS Code: M

=WT: =WT Code:

=Volume: =Volume Code:

>WT: >WT Code:

>Volume: >Volume Code:

<WT: <WT Code:

<Volume: <Volume Code:

% Low WT: % Low WT Code:

% High WT: % High WT Code:

% Low Volume: % Low Volume Code:

% High Volume: % High Volume Code:

% Text: >95

% Environmental Weight:

Other REC Limits: NONE RECOMMENDED

OSHA PEL: NOT ESTABLISHED OSHA PEL Code: M

OSHA STEL: OSHA STEL Code:

ACGIH TLV: NOT ESTABLISHED ACGIH TLV Code: M

ACGIH STEL: N/P ACGIH STEL Code:

EPA Reporting Quantity: DOT Reporting Quantity: Ozone Depleting Chemical: N

Ingredient Name: PHOSPHORODITHIOIC ACID, MIXED O, O-BIS (ISO-BU AND ISOCTYL AND

PENTYL)ESTERS, ZINSALTS

Ingredient CAS Number: 68988-46-5 Ingredient CAS Code: M

RTECS Number: RTECS Code: X

=WT: =WT Code:

- =Volume: =Volume Code:
- >WT: >WT Code:
- >Volume: >Volume Code:
- <WT: <WT Code:
- <Volume: <Volume Code:
- % Low WT: % Low WT Code:
- % High WT: % High WT Code:
- % Low Volume: % Low Volume Code:
- % High Volume: % High Volume Code:
- % Text: 0.63
- % Environmental Weight:

Other REC Limits: NONE RECOMMENDED

OSHA PEL: NOT ESTABLISHED OSHA PEL Code: M

OSHA STEL: OSHA STEL Code:

ACGIH TLV: NOT ESTABLISHED ACGIH TLV Code: M

ACGIH STEL: N/P ACGIH STEL Code:

EPA Reporting Quantity: DOT Reporting Quantity: Ozone Depleting Chemical: N

Ingredient Name: PHOSPHORODITHOIC ACID, O-O-D1 C1-14-ALKYL ESTERS, ZINC SALTS

(2:1) (ZDDP)

Ingredient CAS Number: 68649-42-3 Ingredient CAS Code: M

RTECS Number: RTECS Code: X

=WT: =WT Code:

=Volume: =Volume Code:

>WT: >WT Code:

>Volume: >Volume Code:

<WT: <WT Code:

<Volume: <Volume Code:

% Low WT: % Low WT Code:

% High WT: % High WT Code:

% Low Volume: % Low Volume Code:

% High Volume: % High Volume Code:

% Text: 0.67

% Environmental Weight:

Other REC Limits: NONE RECOMMENDED

OSHA PEL: NOT ESTABLISHED OSHA PEL Code: M

OSHA STEL: OSHA STEL Code:

ACGIH TLV: NOT ESTABLISHED ACGIH TLV Code: M

ACGIH STEL: N/P ACGIH STEL Code:

EPA Reporting Quantity: DOT Reporting Quantity: Ozone Depleting Chemical: N

Ingredient Name: PRODUCT CONTAINS ONE OR BOTH INGREDIENTS 1 & 2 FOR A TOTAL OF

>95%

Ingredient CAS Number: Ingredient CAS Code: X

RTECS Number: 9999999ZZ RTECS Code: M

=WT: =WT Code:

=Volume: =Volume Code:

>WT: >WT Code:

>Volume: >Volume Code:

<WT: <WT Code:

<Volume: <Volume Code:

% Low WT: % Low WT Code:

% High WT: % High WT Code:

% Low Volume: % Low Volume Code:

% High Volume: % High Volume Code:

% Text: N/P

% Environmental Weight:

Other REC Limits: NONE RECOMMENDED

OSHA PEL: NOT ESTABLISHED OSHA PEL Code: M

OSHA STEL: OSHA STEL Code:

ACGIH TLV: NOT ESTABLISHED ACGIH TLV Code: M

ACGIH STEL: N/P ACGIH STEL Code:

EPA Reporting Quantity: DOT Reporting Quantity: Ozone Depleting Chemical:

Ingredient Name: VOLATILE ORGANIC CONTENT: 0.215 LB/GAL

Ingredient CAS Number: Ingredient CAS Code: X RTECS Number: 9999999VO RTECS Code: M

=WT: =WT Code:

=Volume: =Volume Code:

>WT: >WT Code:

>Volume: >Volume Code:

<WT: <WT Code:

<Volume: <Volume Code:

% Low WT: % Low WT Code:

% High WT: % High WT Code:

% Low Volume: % Low Volume Code:

% High Volume: % High Volume Code:

% Text: <3

% Environmental Weight:

Other REC Limits: NONE RECOMMENDED

OSHA PEL: NOT ESTABLISHED OSHA PEL Code: M

OSHA STEL: OSHA STEL Code:

ACGIH TLV: NOT ESTABLISHED ACGIH TLV Code: M

ACGIH STEL: N/P ACGIH STEL Code:

EPA Reporting Quantity: DOT Reporting Quantity: Ozone Depleting Chemical:

Ingredient Name: ZINC (SARA 313) (CERCLA)

Ingredient CAS Number: 7440-66-6 Ingredient CAS Code: M

RTECS Number: ZG8600000 RTECS Code: M

=WT: =WT Code:

=Volume: =Volume Code:

>WT: >WT Code:

>Volume: >Volume Code:

<WT: <WT Code:

<Volume: <Volume Code:

% Low WT: % Low WT Code:

% High WT: % High WT Code:

% Low Volume: % Low Volume Code: % High Volume: % High Volume Code:

% Text: 0.1

% Environmental Weight:

Other REC Limits: NONE RECOMMENDED

OSHA PEL: NOT ESTABLISHED OSHA PEL Code: M

OSHA STEL: OSHA STEL Code:

ACGIH TLV: NOT ESTABLISHED ACGIH TLV Code: M

ACGIH STEL: N/P ACGIH STEL Code: EPA Reporting Quantity: 1000 LBS DOT Reporting Quantity: 1000 LBS

Ozone Depleting Chemical: N

Section 3 - Hazards Identification, Including Emergency Overview DTE 25 HYDRAULIC OIL

Health Hazards Acute & Chronic: ACUTE: NO SIGNIFIGANT EFFECTS ARE EXPECTED. CHRONIC: NO ADVERSE EFFECTS ARE EXPECTED. NOTE: HIGH PRESSURE INJECTION UNDER THE SKIN MAY CAUSE NECROSIS OF SKIN AND UNDERLYING TISSUE DAMAE.

Signs & Symptoms of Overexposure:

N/P

Medical Conditions Aggravated by Exposure:

N/P

LD50 LC50 Mixture: ORAL LD50 (RAT) IS >2000 MG/KG

Route of Entry Indicators:

Inhalation: NO

Skin: NO

Ingestion: NO

Carcenogenicity Indicators

NTP: NO IARC: NO

OSHA: NO

Carcinogenicity Explanation: NO INGREDIENT OF A CONCENTRATION OF 0.1% OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGE

Section 4 - First Aid Measures DTE 25 HYDRAULIC OIL

First Aid:

N/P

Section 5 - Fire Fighting Measures DTE 25 HYDRAULIC OIL

Fire Fighting Procedures:

USE WATER TO COOL FIRE EXPOSED CONTAINERS OR FLUSH SPILLS AWAY FROM EXPOSURE. PREVENT RUNOFF FROM FIREFIGHTING OR DILUTION FROM ENTERING SEWERS OR WATERWAYS. Unusual Fire or Explosion Hazard:

FOR FIRES IN ENCLOSED AREAS, FIRE FIGHTERS MUST WEAR SELF-CONTAINED BREATHING APPARATUS.

Extinguishing Media:

CARBON DIOXIDE, FOAM, DRY CHEMICAL AND WATER FOG. WATER OR FOAM MAY CAUSE FROTHING.

Flash Point: Flash Point Text: >395F,>202C

**Autoignition Temperature:** 

Autoignition Temperature Text: N/K

Lower Limit(s): 0.6% Upper Limit(s): 7.0%

Section 6 - Accidental Release Measures
DTE 25 HYDRAULIC OIL

Spill Release Procedures:

N/P

Section 7 - Handling and Storage DTE 25 HYDRAULIC OIL

# Handling and Storage Precautions:

Other Precautions:

Section 8 - Exposure Controls & Personal Protection DTE 25 HYDRAULIC OIL

**Repiratory Protection:** 

N/P

Ventilation:

N/P

Protective Gloves:

N/P

Eye Protection: N/P

Other Protective Equipment: N/P Work Hygenic Practices: N/P

Supplemental Health & Safety Information: N/P

Section 9 - Physical & Chemical Properties DTE 25 HYDRAULIC OIL

HCC: V6

NRC/State License Number: N/K Net Property Weight for Ammo: N/K

Boiling Point: Boiling Point Text: >600F,>316C

Melting/Freezing Point: Melting/Freezing Text: -11F,-24C Decomposition Point: Decomposition Text: UNKNOWN

Vapor Pressure: <0.1 Vapor Density: UNKNOWN

Percent Volatile Organic Content:

Specific Gravity: 0.885

Volatile Organic Content Pounds per Gallon:

pH: N/R

Volatile Organic Content Grams per Liter:

Viscosity: >42.8CS@40C

Evaporation Weight and Reference: UNKNOWN

Solubility in Water: NEGLIGIBLE

Appearance and Odor: DARK AMBER LIQUID WITH MILD ODOR.

Percent Volatiles by Volume: <3 Corrosion Rate: UNKNOWN

Section 10 - Stability & Reactivity Data	a
DTE 25 HYDRAULIC OIL	

Stability Indicator: YES Materials to Avoid:

STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:

**EXTREME HEAT** 

**Hazardous Decomposition Products:** 

CARBON MONOXIDE, METAL OXIDES. ELEMENTAL OXIDES.

Hazardous Polymerization Indicator: NO

Conditions to Avoid Polymerization:

NONE SPECIFIED BY MANUFACTURER.

Section 11 - Toxicological Information DTE 25 HYDRAULIC OIL

**Toxicological Information:** 

N/P

Section 12 - Ecological Information DTE 25 HYDRAULIC OIL

**Ecological Information:** 

N/P

Section 13 - Disposal Considerations DTE 25 HYDRAULIC OIL

Waste Disposal Methods:

N/P

Section 14 - MSDS Transport Information DTE 25 HYDRAULIC OIL

# **Transport Information:**

N/P

Section 15 - Regulatory Information DTE 25 HYDRAULIC OIL

SARA Title III Information:

N/P

Federal Regulatory Information:

N/P

State Regulatory Information:

N/P

Section 16 - Other Information DTE 25 HYDRAULIC OIL

Other Information:

N/P

**HMIS Transportation Information** 

Product Identification: DTE 25 HYDRAULIC OIL

Transporation ID Number: 97147 Responsible Party CAGE: 19135 Date MSDS Prepared: 12/27/1993 Date MSDS Reviewed: 03/20/1996

MFN: 03/20/1996 Submitter: D DG Status Code: C

**Container Information** Unit of Issue: DR Container Quantity: 0

Type of Container: STEEL 18/18 Net Unit Weight: 405.3 LBS

Article without MSDS: N

Technical Entry NOS Shipping Number:

Radioactivity: N/R

Form:

Net Explosive Weight: N/R

Coast Guard Ammunition Code: N/R

Magnetism: N/P AF MMAC Code:

DOD Exemption Number: N/R **Limited Quantity Indicator:** Multiple Kit Number: 0

Kit Indicator: N Kit Part Indicator: N Review Indicator: Y Additional Data:

NOT REGULATED FOR SHIPPING BY DOT/IMO/IATA PER MFR MSDS.

Department of Transportation Information

DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

**DOT PSN Code: ZZZ** 

Symbols: N/R

DOT PSN Modifier: Hazard Class: N/R UN ID Number: N/R

DOT Packaging Group: N/R

Label: N/R

Special Provision(s): N/R Packaging Exception: N/R Non Bulk Packaging: N/R

Bulk Packaging: N/R

Maximimum Quanity in Passenger Area: N/R Maximimum Quanity in Cargo Area: N/R

Stow in Vessel Requirements: N/R Requirements Water/Sp/Other: N/R

**IMO Detail Information** 

IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION

IMO PSN Code: ZZZ **IMO PSN Modifier:** 

IMDG Page Number: N/R

UN Number: N/R UN Hazard Class: N/R

IMO Packaging Group: N/R Subsidiary Risk Label: N/R

EMS Number: N/R

Medical First Aid Guide Number: N/R

IATA Detail Information

IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

IATA PSN Code: ZZZ IATA PSN Modifier:

IATA UN Id Number: N/R

IATA UN Class: N/R

Subsidiary Risk Class: N/R UN Packaging Group: N/R

IATA Label: N/R

Packaging Note for Passengers: N/R Maximum Quantity for Passengers: N/R

Packaging Note for Cargo: N/R Maximum Quantity for Cargo: N/R

Exceptions: N/R

**AFI Detail Information** 

AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

AFI Symbols:

AFI PSN Code: ZZZ AFI PSN Modifier: AFI UN Id Number: N/R AFI Hazard Class: N/R AFI Packing Group: N/R

AFI Label: N/R

Special Provisions: N/A Back Pack Reference: N/A

**HAZCOM Label Information** 

Product Identification: DTE 25 HYDRAULIC OIL

CAGE: 19135

Assigned Individual: N

Company Name: MOBIL OIL CORPORATION

Company PO Box: 3311

Company Street Address1: BEAUMOUNT REFINERY INTERSTATE 10

Company Street Address2: BEAUMONT, TX 77704 US

Health Emergency Telephone: 609-737-4411/800-424-9300(CHEMTREC)

Label Required Indicator: Y Date Label Reviewed: 03/20/1996

Status Code: C

Manufacturer's Label Number: N/R

Date of Label: 03/20/1996

Year Procured: N/K Organization Code: F

Chronic Hazard Indicator: N Eye Protection Indicator: N/P Skin Protection Indicator: N/P

Respiratory Protection Indicator: N/P

Signal Word: CAUTION Health Hazard: None Contact Hazard: None Fire Hazard: Slight Reactivity Hazard: None 8/8/2002 1:36:37 AM

#### HAVOLINE MOTOR OIL SAE 30, 01830

Division of Facilities Services DOD Hazardous Material Information (ANSI Format) For Cornell University Convenience Only

# HAVOLINE MOTOR OIL SAE 30, 01830

Section 1 - Product and Company Identification Section 9 - Physical &

**Chemical Properties** 

Section 2 - Compositon/Information on Ingredients Section 10 - Stability &

Reactivity Data

Section 3 - Hazards Identification Including Emergency Overview Section 11

- Toxicological Information

Section 4 - First Aid Measures Section 12 - Ecological Information

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Section 1 - Product and Company Identification HAVOLINE MOTOR OIL SAE 30, 01830

Product Identification: HAVOLINE MOTOR OIL SAE 30, 01830 Date of MSDS: 02/21/1990 Technical Review Date: 09/25/1991

FSC: 9150 NIIN: 00-903-6266

Submitter: N EN Status Code: C

MFN: 01 Article: N

#### Kit Part: N

Manufacturer's Information

Manufacturer's Name: TEXACO, INC

Post Office Box: 509 Manufacturer's Address1:

Manufacturer's Address2: BEACON, NY 12508-0509

Manufacturer's Country: US

General Information Telephone: 914-831-3400; EXT 204

Emergency Telephone: 914-831-3400; EXT 204 Emergency Telephone: 914-831-3400; EXT 204 MSDS Preparer's Name: MJ VON ALLMEN

Proprietary: N Reviewed: N Published: Y CAGE: FO311

Special Project Code: N

Item Description

Item Name: Item Manager:

Specification Number: NK Type/Grade/Class: NK

Unit of Issue:

Unit of Issue Quantity: Type of Container:

**Contractor Information** 

Contractor's Name: TEXACO INC

Post Office Box: 509

Contractor's Address1: UNKNOWN

Contractor's Address2: BEACON, NY 12508-0509

Contractor's Telephone: 914-831-3400

Contractor's CAGE: 7B131

**Contractor Information** 

Contractor's Name: TEXACO, INC

Post Office Box: 509

Contractor's Address1: N/K

Contractor's Address2: BEACON, NY 12508 Contractor's Telephone: (914) 831-3400

Contractor's CAGE: FO311

Section 2 - Compositon/Information on Ingredients HAVOLINE MOTOR OIL SAE 30, 01830

Ingredient Name: ALKENYLSUCCINIMIDE DISPERSANT (MFR CAS: TSBA CBI)

Ingredient CAS Number: Ingredient CAS Code: X

RTECS Number: RTECS Code: X

=WT: =WT Code:

=Volume: =Volume Code:

>WT: >WT Code:

>Volume: >Volume Code:

<WT: <WT Code:

<Volume: <Volume Code:

% Low WT: % Low WT Code:

% High WT: % High WT Code:

% Low Volume: % Low Volume Code:

% High Volume: % High Volume Code:

% Text: 4-11

% Environmental Weight:

Other REC Limits: N/K

OSHA PEL: NOT APPLICABLE OSHA PEL Code: M

OSHA STEL: OSHA STEL Code:

ACGIH TLV: NOT APPLICABLE ACGIH TLV Code: M

ACGIH STEL: N/P ACGIH STEL Code:

EPA Reporting Quantity: DOT Reporting Quantity: Ozone Depleting Chemical:

Ingredient Name: DIALKYLDITHIOPHOSPHORIC ACID, ZINC SALT

Ingredient CAS Number: 68649-42-3 Ingredient CAS Code: M

RTECS Number: RTECS Code: X

=WT: =WT Code:

=Volume: =Volume Code:

>WT: >WT Code:

>Volume: >Volume Code:

<WT: <WT Code:

<Volume: <Volume Code:

% Low WT: % Low WT Code:

% High WT: % High WT Code:

% Low Volume: % Low Volume Code:

% High Volume: % High Volume Code:

% Text: 1-4

% Environmental Weight:

Other REC Limits: N/K

OSHA PEL: NOT APPLICABLE OSHA PEL Code: M

OSHA STEL: OSHA STEL Code:

ACGIH TLV: NOT APPLICABLE ACGIH TLV Code: M

ACGIH STEL: N/P ACGIH STEL Code:

EPA Reporting Quantity: DOT Reporting Quantity: Ozone Depleting Chemical: N Ingredient Name: MINERAL OIL, PETROLEUM DISTILLATES, SOLVENT-DEMWAXED HEAVY

**PARAFFINIC** 

Ingredient CAS Number: 64742-65-0 Ingredient CAS Code: M

RTECS Number: PY8038500 RTECS Code: M

=WT: =WT Code:

=Volume: =Volume Code:

>WT: >WT Code:

>Volume: >Volume Code:

<WT: <WT Code:

<Volume: <Volume Code:

% Low WT: % Low WT Code:

% High WT: % High WT Code:

% Low Volume: % Low Volume Code:

% High Volume: % High Volume Code:

% Text: 80-95

% Environmental Weight: Other REC Limits: N/K

OSHA PEL: 5 MG/M3 MIST (MFR) OSHA PEL Code: M

OSHA STEL: OSHA STEL Code:

ACGIH TLV: 5 MG/M3 MIST (MFR) ACGIH TLV Code: M

ACGIH STEL: N/P ACGIH STEL Code:

EPA Reporting Quantity: DOT Reporting Quantity: Ozone Depleting Chemical: N

Section 3 - Hazards Identification, Including Emergency Overview HAVOLINE MOTOR OIL SAE 30, 01830

Health Hazards Acute & Chronic: BELIEVED TO BE MINIMALLY IRRITATING TO EYES/SKIN. INHAL: VAP OR MIST IN EXCESS OF RECOMMENDED EXOSURE LIMITS MAY CAUSE IRRITAT, HDCH, NAUS, DROW. USED GASOLINE MOTOR OILS HAVE CAUSED SKIN CANCER IN LA B ANIMALS WHEN REPEATEDLY APPLIED & LEFT IN PLACE BETWEEN APPLICATIONS. AVOID SKIN CONTACT W/USED MOTOR OILS.

Signs & Symptoms of Overexposure:

SEE HEALTH HAZARDS.

Medical Conditions Aggravated by Exposure: NONE SPECIFIED BY MANUFACTURER.

LD50 LC50 Mixture: LD50 (ORL-RAT) >5 G/KG

Route of Entry Indicators:

Inhalation: YES

Skin: YES
Ingestion: NO

Carcenogenicity Indicators

NTP: NO IARC: YES OSHA: NO

Carcinogenicity Explanation: INGREDIENT WITH CAS NO. 64742-65-0 IS LISTED BY THE

RTECS AS AN IARC GROUP1 CARCINOGEN.

Section 4 - First Aid Measures HAVOLINE MOTOR OIL SAE 30, 01830

#### First Aid:

EYES: AS WITH MOST FOREIGN MATERIALS, SHOULD EYE CONTACT OCCUR, FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SKIN: WASH EXPOSED AREAS WITH SOAP AND WATER. INHALATION: IF IRRITATION OR DRO WSINESS OCCURS, REMOVE TO FRESH AIR. INGEST: NONE NECESSARY.

Section 5 - Fire Fighting Measures HAVOLINE MOTOR OIL SAE 30, 01830

#### Fire Fighting Procedures:

WEAR NIOSH/MSHA APPRVD SCBA & FULL PROT EQUIP(FP N). USE H\*20 TO COOL FIRE-EXPOS CNTRS.IF LEAK/SPILL HAS NOT IGNITED, USE H\*20 SPRAY TO DISPERSE VAP/PROT PERS.

Unusual Fire or Explosion Hazard:

HEAT/COMBUSTION PRODUCES CO, CO\*2, ALDEHYDES, KETONES, COMBUSTION PRODUCTS OF SULFUR, ZINC, COPPER, PHOSPHORUS.

Extinguishing Media:

WATER SPRAY, DRY CHEMICAL, FOAM, OR CARBON DIOXIDE. WATER OR FOAM MAY CAUSE FROTHING.

Flash Point: Flash Point Text: 430F,221C

Autoignition Temperature:

Autoignition Temperature Text: N/A

Lower Limit(s): N/K Upper Limit(s): N/K

Section 6 - Accidental Release Measures HAVOLINE MOTOR OIL SAE 30, 01830

### Spill Release Procedures:

CONTAIN SPILL IF POSSIBLE, WIPE UP OR ABSORB ON SUITABLE MATERIAL AND SHOVEL UP.

Section 7 - Handling and Storage HAVOLINE MOTOR OIL SAE 30, 01830

Handling and Storage Precautions:

Other Precautions:

Section 8 - Exposure Controls & Personal Protection HAVOLINE MOTOR OIL SAE 30, 01830

**Repiratory Protection:** 

NIOSH/MSHA APPROVED RESPIRATOR APPROPRIATE FOR EXPOSURE OF CONCERN (FP N)

Ventilation:

ADEQUATE TO MEET COMPONENT PERMISSIBLE CONCENTRATIONS.

**Protective Gloves:** 

IMPERVIOUS GLOVES(FP N).

Eye Protection: CHEMICAL WORKERS GOGGLES(FP N).

Other Protective Equipment: NONE SPECIFIED BY MANUFACTURER.

Work Hygenic Practices: CLEANSE EXPOSED SKIN AREAS SEVERAL TIMES DAILY W/SOAP &

WATER, CLEANSE SOILED CLOTHING AT LEAST WEEKLY.

Supplemental Health & Safety Information: NONE SPECIFIED BY MANUFACTURER.

Section 9 - Physical & Chemical Properties HAVOLINE MOTOR OIL SAE 30, 01830

HCC:

NRC/State License Number: Net Property Weight for Ammo:

Boiling Point: Boiling Point Text: N/K

Melting/Freezing Point: Melting/Freezing Text: N/K Decomposition Point: Decomposition Text: N/K

Vapor Pressure: N/K Vapor Density: N/K

Percent Volatile Organic Content:

Specific Gravity: 0.8877

Volatile Organic Content Pounds per Gallon:

pH: N/A

Volatile Organic Content Grams per Liter:

Viscosity: N/P

Evaporation Weight and Reference: N/K

Solubility in Water: N/K

Appearance and Odor: BRIGHT AND CLEAR LIQUID, MILD ADDITIVE ODOR.

Percent Volatiles by Volume: N/K

Corrosion Rate: N/K

Section 10 - Stability & Reactivity Data HAVOLINE MOTOR OIL SAE 30, 01830

Stability Indicator: N/P Materials to Avoid:

STRONG OXIDIZERS.

Stability Condition to Avoid:

NONE SPECIFIED BY MANUFACTURER.

**Hazardous Decomposition Products:** 

CARBON MONOXIDE, CARBON DIOXIDE, ALDEHYDES AND KETONES, COMBUSTION PRODUCTS OF

SULFUR, ZINC, COPPER, AND PHOSPHOROUS.

Hazardous Polymerization Indicator: NO

Conditions to Avoid Polymerization:

NOT RELEVANT.

Section 11 - Toxicological Information HAVOLINE MOTOR OIL SAE 30, 01830

**Toxicological Information:** 

N/P

Section 12 - Ecological Information HAVOLINE MOTOR OIL SAE 30, 01830

**Ecological Information:** 

N/P

Section 13 - Disposal Considerations HAVOLINE MOTOR OIL SAE 30, 01830

Waste Disposal Methods:

DISPOSE OF I/A/W FEDERAL, STATE AND LOCAL REGULATIONS (FP N). IT IS RESPONSIBILITY OF USER TO DETERMINE IF PRODUCT IS HAZARDOUS WASTE.

Section 14 - MSDS Transport Information HAVOLINE MOTOR OIL SAE 30, 01830

**Transport Information:** 

N/P

Section 15 - Regulatory Information HAVOLINE MOTOR OIL SAE 30, 01830

SARA Title III Information:

N/P

Federal Regulatory Information:

N/P

State Regulatory Information:

N/P

Section 16 - Other Information HAVOLINE MOTOR OIL SAE 30, 01830

Other Information:

N/P

**HMIS** Transportation Information

Product Identification: HAVOLINE MOTOR OIL SAE 30, 01830

Transporation ID Number: 91200 Responsible Party CAGE: FO311 Date MSDS Prepared: 02/21/1990 Date MSDS Reviewed: 11/16/1991

MFN: 11/16/1991 Submitter: N TN Status Code: C

**Container Information** 

Unit of Issue:

Container Quantity:

Type of Container:

Net Unit Weight:

Article without MSDS: N

Technical Entry NOS Shipping Number:

Radioactivity:

Form:

Net Explosive Weight:

Coast Guard Ammunition Code:

Magnetism: N/P

AF MMAC Code:

DOD Exemption Number: Limited Quantity Indicator:

Multiple Kit Number: 0

Kit Indicator: N Kit Part Indicator: N Review Indicator: Y Additional Data:

NOT REGULATED FOR TRANSPORTATION

Department of Transportation Information

DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

DOT PSN Code: ZZZ

Symbols: N/R

DOT PSN Modifier: Hazard Class: N/R UN ID Number: N/R

DOT Packaging Group: N/R

Label: N/R

Special Provision(s): N/R Packaging Exception: N/R Non Bulk Packaging: N/R Bulk Packaging: N/R

Maximimum Quanity in Passenger Area: N/R Maximimum Quanity in Cargo Area: N/R

Stow in Vessel Requirements: N/R Requirements Water/Sp/Other: N/R

**IMO Detail Information** 

IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION

IMO PSN Code: ZZZ IMO PSN Modifier:

IMDG Page Number: N/R

UN Number: N/R
UN Hazard Class: N/R
IMO Packaging Group: N/R
Subsidiary Risk Label: N/R

EMS Number: N/R

Medical First Aid Guide Number: N/R

IATA Detail Information

IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

IATA PSN Code: ZZZ IATA PSN Modifier: IATA UN Id Number: N/R IATA UN Class: N/R Subsidiary Risk Class: N/R

UN Packaging Group: N/R

IATA Label: N/R

Packaging Note for Passengers: N/R Maximum Quantity for Passengers: N/R

Packaging Note for Cargo: N/R Maximum Quantity for Cargo: N/R

Exceptions: N/R

**AFI** Detail Information

AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

**AFI Symbols:** 

AFI PSN Code: ZZZ AFI PSN Modifier: AFI UN Id Number: N/R AFI Hazard Class: N/R AFI Packing Group: N/R

AFI Label: N/R

Special Provisions: N/A Back Pack Reference: N/A

**HAZCOM Label Information** 

Product Identification: HAVOLINE MOTOR OIL SAE 30, 01830

CAGE: FO311

Assigned Individual: Y

Company Name: TEXACO, INC

Company PO Box: 509

Company Street Address1: N/K

Company Street Address2: BEACON, NY 12508 NK Health Emergency Telephone: 914-831-3400, EXT 204

Label Required Indicator: Y Date Label Reviewed: 09/26/1991

Status Code: C

Manufacturer's Label Number: Date of Label: 09/26/1991

Year Procured: N/K Organization Code: G

Chronic Hazard Indicator: Y Eye Protection Indicator: YES Skin Protection Indicator: YES

Respiratory Protection Indicator: YES

Signal Word: CAUTION Health Hazard: Slight Contact Hazard: Slight Fire Hazard: Slight Reactivity Hazard: None

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#### GREASE, GENERAL PURPOSE

Division of Facilities Services DOD Hazardous Material Information (ANSI Format) For Cornell University Convenience Only

#### GREASE, GENERAL PURPOSE

Section 1 - Product and Company Identification Section 9 - Physical &

**Chemical Properties** 

Section 2 - Compositon/Information on Ingredients Section 10 - Stability &

Reactivity Data

Section 3 - Hazards Identification Including Emergency Overview Section 11

- Toxicological Information

Section 4 - First Aid Measures Section 12 - Ecological Information

Section 5 - Fire Fighting Measures Section 13 - Disposal Considerations

Section 6 - Accidental Release Measures Section 14 - MSDS Transport

Information

Section 7 - Handling and Storage Section 15 - Regulatory Information

Section 8 - Exposure Controls & Personal Protection Section 16 - Other

Information

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Section 1 - Product and Company Identification GREASE, GENERAL PURPOSE

Product Identification: GREASE, GENERAL PURPOSE

Date of MSDS: 01/01/1985 Technical Review Date: 06/09/1980

FSC: 9150 NIIN: 00-273-2374

Submitter: D DG Status Code: C

MFN: 01

Article: N Kit Part: N

Manufacturer's Information

Manufacturer's Name: SOUTHWEST PETRO-CHEM INC

Manufacturer's Address1:

Manufacturer's Address2: N/P, NK 00000

Manufacturer's Country: NK General Information Telephone: Emergency Telephone: 913-782-5800 Emergency Telephone: 913-782-5800

MSDS Preparer's Name: N/P

Proprietary: N Reviewed: Y Published: Y CAGE: 70878

Special Project Code: N

Item Description

Item Name: GREASE, GENERAL PURPOSE

Item Manager: S9G

Specification Number: VV-G-632

Type/Grade/Class: NK

Unit of Issue: CN Quantitative Expression: 00000000035LB

Unit of Issue Quantity: 1 Type of Container: PAIL

**Contractor Information** 

Contractor's Name: EXXON CO USA-SOUTHWEST GREASE BUSINESS UNIT

Post Office Box: 1974

Contractor's Address1: 1400 S HARRISON Contractor's Address2: OLATHE, KS 66061

Contractor's Telephone: 913-656-3701/800-424-9300(CHEMTREC)

Contractor's CAGE: 70878

# Section 2 - Compositon/Information on Ingredients

GREASE, GENERAL PURPOSE

Ingredient Name: PETROLEUM HYDROCARBONS Ingredient CAS Number: Ingredient CAS Code: X

RTECS Number: RTECS Code: X

=WT: =WT Code:

=Volume: =Volume Code:

>WT: >WT Code:

>Volume: >Volume Code:

<WT: <WT Code:

<Volume: <Volume Code:

% Low WT: % Low WT Code:

% High WT: % High WT Code:

% Low Volume: % Low Volume Code: % High Volume: % High Volume Code:

% Text: 100

% Environmental Weight: Other REC Limits: N/P

OSHA PEL: N/P OSHA PEL Code: OSHA STEL: OSHA STEL Code:

ACGIH TLV: UNKNOWN ACGIH TLV Code: M

ACGIH STEL: N/P ACGIH STEL Code:

EPA Reporting Quantity: DOT Reporting Quantity: Ozone Depleting Chemical:

Section 3 - Hazards Identification, Including Emergency Overview GREASE, GENERAL PURPOSE

Health Hazards Acute & Chronic: N/P

Signs & Symptoms of Overexposure:

POSSIBLE SKIN AND EYE IRRITATION WITH PROLONGED CONTACT

Medical Conditions Aggravated by Exposure:

N/P

LD50 LC50 Mixture: N/P

Route of Entry Indicators:

Inhalation: N/P

Skin: N/P

Ingestion: N/P

Carcenogenicity Indicators

NTP: N/P IARC: N/P OSHA: N/P

Carcinogenicity Explanation: N/P

Section 4 - First Aid Measures GREASE, GENERAL PURPOSE

First Aid:

EYES:FLUSH WITH PLENTY OF WATER.CALL A PHYSICIAN IMMEDIATELY. SKIN CONTACT:WASH WITH SOAP AND WATER.IF SWALLOWED:CALL A PHYSICIAN IMMEDIATELY.

Section 5 - Fire Fighting Measures GREASE, GENERAL PURPOSE

Fire Fighting Procedures:

FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS

Unusual Fire or Explosion Hazard:

N/P

Extinguishing Media:

DRY CHEMICAL, CO\*2, FOAM

Flash Point: Flash Point Text: 350F COC

**Autoignition Temperature:** 

Autoignition Temperature Text: N/A

Lower Limit(s):

Upper Limit(s):

Section 6 - Accidental Release Measures GREASE,GENERAL PURPOSE

Spill Release Procedures:

TRANSFER BULK OF MATERIAL INTO ANOTHER APPROVED CONTAINER.ABSORB REMAINING RESIDUE WITH PROPER ABSORBENTS.SWEEP UP AND DISPOSE AS SOLID WASTE IN ACCORDANCE WITH LOCAL,STATE, AND FEDERAL REGULATIONS

Section 7 - Handling and Storage GREASE, GENERAL PURPOSE

Handling and Storage Precautions:

Other Precautions:

# Section 8 - Exposure Controls & Personal Protection GREASE, GENERAL PURPOSE

Repiratory Protection:

NONE REQUIRED

Ventilation:

NONE REQUIRED

Protective Gloves:

RUBBER OR PLAST

Eye Protection: SAFETY GOGGLES OR F.SHLD.

Other Protective Equipment: N/P Work Hygenic Practices: N/P

Supplemental Health & Safety Information: ITEM IS GRADE 2 OF FED SPEC

VV-G-632.THE MELTING PT OF ITEM IS 185F

Section 9 - Physical & Chemical Properties

GREASE, GENERAL PURPOSE

HCC: V6

NRC/State License Number:

Net Property Weight for Ammo:

Boiling Point: Boiling Point Text: N/A

Melting/Freezing Point: Melting/Freezing Text: N/A Decomposition Point: Decomposition Text: N/A

Vapor Pressure: N/P Vapor Density: N/P

Percent Volatile Organic Content:

Specific Gravity: 0.9236

Volatile Organic Content Pounds per Gallon:

pH: N/P

Volatile Organic Content Grams per Liter:

Viscosity: N/P

Evaporation Weight and Reference: NOT DETERMINED

Solubility in Water: NEGLIGIBLE

Appearance and Odor: AMBER SEMI-SOLID WITH USUAL PETROLEUM OIL ODOR

Percent Volatiles by Volume: N/P

Corrosion Rate: N/P

Section 10 - Stability & Reactivity Data

# GREASE, GENERAL PURPOSE

Stability Indicator: YES Materials to Avoid:

STRONG OXIDIZING AGENTS SUCH AS CHROMIC ACID, BROMINE, H\*2O\*2

Stability Condition to Avoid:

N/P

**Hazardous Decomposition Products:** 

DENSE SMOKE,CO,CO\*2, & POSSIBLY OTHER UNKNOWN ORGANIC COMPDS

Hazardous Polymerization Indicator: NO Conditions to Avoid Polymerization: N/P

Section 11 - Toxicological Information GREASE, GENERAL PURPOSE

**Toxicological Information:** 

N/P

Section 12 - Ecological Information GREASE, GENERAL PURPOSE

**Ecological Information:** 

N/P

Section 13 - Disposal Considerations GREASE,GENERAL PURPOSE

Waste Disposal Methods:

PUT INTO AN APPROVED STORAGE CONTAINER AND SHIP TO AN APPROVED DISPOSAL AREA

Section 14 - MSDS Transport Information GREASE, GENERAL PURPOSE

# Transport Information:

N/P

Section 15 - Regulatory Information GREASE, GENERAL PURPOSE

**SARA** Title III Information:

N/P

Federal Regulatory Information:

N/P

State Regulatory Information:

N/P

Section 16 - Other Information GREASE, GENERAL PURPOSE

Other Information:

N/P

**HMIS Transportation Information** 

Product Identification: GREASE, GENERAL PURPOSE

Transporation ID Number: 64733 Responsible Party CAGE: 70878 Date MSDS Prepared: 01/01/1985 Date MSDS Reviewed: 06/09/1980

MFN: 06/09/1980 Submitter: D DG Status Code: C

**Container Information** 

Unit of Issue: CN Container Quantity: 1 Type of Container: PAIL

Net Unit Weight:

Article without MSDS: N

Technical Entry NOS Shipping Number:

Radioactivity:

Form:

Net Explosive Weight:

Coast Guard Ammunition Code:

Magnetism: N/P

AF MMAC Code:

DOD Exemption Number: Limited Quantity Indicator: Multiple Kit Number: 0

Kit Indicator: N Kit Part Indicator: N Review Indicator: Y Additional Data:

Department of Transportation Information

DOT Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

DOT PSN Code: ZZZ

Symbols: N/R

DOT PSN Modifier: Hazard Class: N/R UN ID Number: N/R

DOT Packaging Group: N/R

Label: N/R

Special Provision(s): N/R Packaging Exception: N/R Non Bulk Packaging: N/R

Bulk Packaging: N/R

Maximimum Quanity in Passenger Area: N/R Maximimum Quanity in Cargo Area: N/R

Stow in Vessel Requirements: N/R Requirements Water/Sp/Other: N/R

**IMO Detail Information** 

IMO Proper Shipping Name: NOT REGULATED FOR THIS MODE OF TRANSPORTATION

IMO PSN Code: ZZZ IMO PSN Modifier:

IMDG Page Number: N/R

UN Number: N/R UN Hazard Class: N/R IMO Packaging Group: N/R Subsidiary Risk Label: N/R

EMS Number: N/R

Medical First Aid Guide Number: N/R

IATA Detail Information

IATA Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

IATA PSN Code: ZZZ IATA PSN Modifier: IATA UN Id Number: N/R

IATA UN Class: N/R

Subsidiary Risk Class: N/R UN Packaging Group: N/R

IATA Label: N/R

Packaging Note for Passengers: N/R Maximum Quantity for Passengers: N/R

Packaging Note for Cargo: N/R Maximum Quantity for Cargo: N/R

Exceptions: N/R

**AFI Detail Information** 

AFI Proper Shipping Name: NOT REGULATED BY THIS MODE OF TRANSPORTATION

AFI Symbols:

AFI PSN Code: ZZZ AFI PSN Modifier: AFI UN Id Number: N/R AFI Hazard Class: N/R AFI Packing Group: N/R

AFI Label: N/R

Special Provisions: N/A Back Pack Reference: N/A

**HAZCOM Label Information** 

Product Identification: GREASE, GENERAL PURPOSE

CAGE: 70878

Assigned Individual: N

Company Name: EXXON CO USA-SOUTHWEST GREASE BUSINESS UNIT

Company PO Box: 1974

Company Street Address1: 1400 S HARRISON Company Street Address2: OLATHE, KS 66061 US

Health Emergency Telephone: 913-782-5800

Label Required Indicator: Y

Date Label Reviewed: 12/16/1998

Status Code: C

Manufacturer's Label Number: Date of Label: 12/16/1998

Year Procured: N/K Organization Code: G

Chronic Hazard Indicator: N/P Eye Protection Indicator: N/P Skin Protection Indicator: N/P

Respiratory Protection Indicator: N/P

Signal Word: N/P Health Hazard: Contact Hazard: Fire Hazard:

Reactivity Hazard:

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