

Appendix D

INTERNAL

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Serving the Drilling Industry

WESTCOAST DRILLING SUPPLIES LTD.#6 - 2351 SIMPSON ROAD
RICHMOND, B.C. V6X 2R2TEL: (604) 278-4954
FAX: (604) 278-4914

EMERGENCY PHONE NO.: (604) 278-4954

MATERIAL SAFETY DATA SHEET**SECTION I: IDENTIFICATION OF PRODUCT**

PRODUCT NAME: 550 X POLYMER
CHEMICAL FAMILY: Copolymer of Acrylamide and Sodium Acrylate
PRODUCT USE: Drilling Mud Additive
WHMIS CLASSIFICATION: Not a Controlled Product under WHMIS
WORK PLACE HAZARD: Not Applicable

TRANSPORTATION OF DANGEROUS GOODS (TDGR)

CLASSIFICATION: Not Applicable
PACKAGE GROUP: Not Applicable
PRODUCT IDENTIFICATION NUMBER (PIN): Not Applicable

SECTION II: HAZARDOUS INGREDIENTS

<u>INGREDIENT</u>	<u>PERCENTAGE</u>	<u>CAS NUMBER</u>	<u>LD50</u>	<u>LC50</u>
No Hazardous Ingredients				

SECTION III: TOXICOLOGICAL PROPERTIES**ROUTE OF ENTRY:**

[] skin, [] eye contact, [xxx] inhalation, [] ingestion

SKIN CONTACT: Prolonged contact may cause skin irritation or dermatitis in some individuals.**EYE CONTACT:** May Cause irritation.**INHALATION:** May cause sneezing, slight irritation of nose and throat.**INGESTION:** Not available**EFFECTS OF ACUTE EXPOSURE:** Not available

WESTCOAST Drilling Supplies Ltd.

850 X POLYMER

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SECTION IV: FIRST AID MEASURES

SKIN CONTACT: Wash exposed area with soap and water. If irritation or abnormalities persist, call a physician.

EYE CONTACT: Immediately flush eyes with water for 15 minutes and call a physician.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

INGESTION: Do not induce vomiting. If conscious, dilute by giving two glasses of water. Call a physician immediately.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR:	White granular solid; faint odour
DENSITY (SPECIFIC GRAVITY):	0.80
BOILING POINT:	Decomposes
MELTING POINT:	Not Applicable
WATER SOLUBILITY:	Soluble
% VOLATILE BY VOLUME:	Not Applicable
EVAPORATION RATE:	Not Applicable
VAPOUR PRESSURE: (MM Hg)	Very Low
VAPOUR DENSITY: (Air = 1)	Not Applicable

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: Not Applicable

FLAMMABLE LIMIT: Not Applicable

EXTINGUISHING MEDIA: Dry chemical, foam, CO₂

SPECIAL FIRE FIGHTING PROCEDURES: Use self-contained respirators for fire fighting personnel.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Oxides of carbon and nitrogen and products of incomplete combustion.

SECTION VII: REACTIVITY DATA

STABLE [XXX]

INSTABLE: []

INCOMPATIBILITY (CONDITIONS TO AVOID): Strong oxidizing agents and caustic solutions.

HAZARDOUS DECOMPOSITION PRODUCTS: Not Applicable

HAZARDOUS POLYMERIZATION: Will not occur [xxx] May occur []

WESTCOAST Drilling Supplies Ltd.

650 X POLYMER

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SECTION VIII: PREVENTATIVE MEASURES

RESPIRATORY PROTECTION: Suggest NIOSH/MESA approved dust mask.

VENTILATION: Ten (10) changes per hour suggested.

PROTECTIVE GLOVES: Suggest plastic or rubber.

EYE PROTECTION: Suggest goggles.

OTHER PROTECTIVE EQUIPMENT: Suggest rubber apron.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Avoid prolonged or frequent contact when handling material. Do not inhale dust or breathe vapour. Keep container closed when not in use. Store in a cool and dry location away from oxidizing and reducing agents.

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK

Ventilate area. Wear rubber boots, gloves and a self-contained breathing apparatus if ventilation is not adequate. Collect into a waste container. Avoid raising dust. Wash spill site after material pick-up. Water solutions are very slippery. May constitute a hazard following a spill.

WASTE DISPOSAL METHOD

Dispose of waste according to federal, provincial and local regulations.

SECTION IX: PREPARATION

The information contained herein is given in good faith, but no warranty, expressed or implied is made.

Date issued: January 1, 1991

Date Revised:

By: Product Safety Committee

AMENDMENT

HAZARDOUS INGREDIENTS (550 I)

MATERIAL OR COMPONENT	WT%	HAZARD DATA
COPOLYACRYLAMIDE/SODIUM ACRYLATE		NOT CONSIDERED HAZARDOUS

ENVIRONMENTAL

DEGRADABILITY/AQUATIC TOXICITY: N. D.

OCTANOL/WATER PARTITION COEFFICIENT: N. D.

WASTE DISPOSAL METHODS: INCINERATION AND/OR DISPOSAL IN CHEMICAL LANDFILL. DISPOSER MUST COMPLY WITH FEDERAL STATE AND LOCAL DISPOSAL OR DISCHARGE LAWS.

RCRA STATUS OF UNUSED MATERIAL IF DISCARDED: NOT A "HAZARDOUS WASTE"

HAZARDOUS WASTE NUMBER: N. A.

REPORTABLE QUANTITY: EPA 40 CFR (CERCLA 102): N. A.

THRESHOLD PLANNING QUANTITY: EPA 40 CFR 355 (SERA 301-304): N. A.

TOXIC CHEMICAL RELEASE REPORTING: EPA 40 CFR 372 (SERA 311-313): N. A.

EPA HAZARD CLASSIFICATION CODE: ACUTE - YES
FIRE - NO
CHRONIC - NO
PRESSURE - NO
REACTIVE - NO

HMIS AND NFPA RATINGS:	HMIS	NFPA
HEALTH	1	1
FLAMMABILITY	0	0
REACTIVITY	1	1
SPECIAL	N.A.	N.A.



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MATERIAL SAFETY DATA SHEET

SECTION I: IDENTIFICATION OF PRODUCT

PRODUCT NAME: LINSEED SOAP

CHEMICAL FAMILY: Lubricating grease

WHMIS CLASSIFICATION: Not Regulated

WORK PLACE HAZARD: Not Applicable

TRANSPORTATION OF DANGEROUS GOODS (TDGR)

CLASSIFICATION: Not Available

PACKAGE GROUP: Not Applicable

PRODUCT IDENTIFICATION NUMBER (PIN): Not Applicable (Petroleum Lubricating Grease)

SECTION II: HAZARDOUS INGREDIENTS

<u>INGREDIENT</u>	<u>PERCENTAGE</u>	<u>CAS NUMBER</u>	<u>LD50</u>	<u>LC50</u>
Linseed Soap	100%	Mixture		

SECTION III: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY: Information not available

[] skin, [] eye contact, [xxx] inhalation, [] ingestion

SKIN CONTACT: Prolonged and repeated contact with skin can cause defatting and drying of the skin resulting in skin irritation and dermatitis.

EYE CONTACT: Not available

INHALATION: Inhalation of oil mist or vapours from hot grease may cause irritation of the upper respiratory tract. Long term intensive exposure may cause benign lung fibrosis.

INGESTION: Not Available.

CHRONIC OVEREXPOSURE: Not Determined

WESTCOAST DRILLING SUPPLIES LTD.

LINSEED SOAP

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IRRITATION INDEX: SKIN: Not Available

SYMPTOMS OF EXPOSURE: Not Available

EXPOSURE INFORMATION: Oil mist (particulate): 5 mg/M³ (TLV/TWA) ACGIH 88/89
10 mg/m³ (TLV/STEL) ACGIH 88/89

SECTION IV: FIRST AID MEASURES

SKIN CONTACT: Remove contaminated clothing. Wash contaminated skin with mild soap and water. Wipe excess from skin.

EYE CONTACT: Flush eyes with water for at least fifteen (15) minutes.

INHALATION: Remove victim from further exposure. Additional first aid treatment is not ordinarily required.

INGESTION: Do not induce vomiting. Obtain medical attention immediately.

OTHER INSTRUCTIONS: None.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR:	Semi-solid brown coloured grease; slight hydrocarbon odour
DENSITY (SPECIFIC GRAVITY):	1.0
BOILING POINT:	100 Degree C
MELTING POINT:	Not Available
WATER SOLUBILITY:	Miscible
% VOLATILE BY VOLUME:	Not Available
EVAPORATION RATE:	Not Available
VAPOUR PRESSURE: (MM Hg)	Not Available
VAPOUR DENSITY: (Air = 1)	Not Available
Ph:	9 - 5
VISCOSITY:	Not Available

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 222°C FLAMMABLE LIMIT: Not Available

AUTO IGNITION TEMP: 343°C

EXTINGUISHING MEDIA: Dry Chemical, Carbon Dioxide CO₂, Foam, Water fog.

SPECIAL FIRE FIGHTING PROCEDURES: No special procedures - Avoid inhalation of smoke. Caution, spilled material is slippery. Use water to cool fire-exposed containers.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None currently known.

WESTCOAST DRILLING SUPPLIES LTD.

LINSEED SOAP

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SECTION VII: REACTIVITY DATA

STABLE: [yes] INSTABLE: []

INCOMPATIBILITY (CONDITIONS TO AVOID): Not Available

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide; carbon dioxide and dense smoke are produced on combustion. Avoid excessive heat, formation of vapours or mists.

HAZARDOUS POLYMERIZATION: Will not occur [] May occur [] Not Available

SECTION VIII: PREVENTATIVE MEASURES

RESPIRATORY PROTECTION: Under conditions of high heat use an air purifying respirator (mechanical filter with accompanying organic vapour cartridge)

VENTILATION: Highly recommended for all indoor situations to control fugitive emissions. Concentrations in air should be maintained below the recommended threshold limit value if unprotected personnel are involved.

LOCAL: If oil mist is present or if exposure is exceeded.

MAKE-UP AIR: Should always be supplied to balance air exhausted (either generally or locally).

PROTECTIVE GLOVES: Impervious gloves (viton, nitrile, PVC, neoprene) should be worn at all times when handling this product.

EYE PROTECTION: Chemical safety goggles and/or full face shield to protect eyes and face, if product is handled such that it could be splashed into eyes.

OTHER PROTECTIVE EQUIPMENT: Impervious clothing (apron, coveralls) should be worn in confined workspaces or where the risk of skin exposure is much higher.

PERMISSIBLE CONCENTRATIONS: Not Available

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Store in a cool, dry, well ventilated area, away from heat and ignition sources. Avoid excessive heat, formation of oil mist, breathing of vapours and mist of hot oil and prolonged or repeated contact with skin. Launder contaminated clothing prior to reuse. Properly dispose of contaminated leather articles, including shoes, that cannot be decontaminated.

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK

Spilled material is slippery. Isolate hazard area and restrict access. Wear appropriate breathing apparatus (if applicable) and protective clothing. Stop leak only if safe to do so. Contain a land spill by diking. For large spills remove by mechanical means and place in containers. Clean area with appropriate cleaner.

Do not allow product or run off from fire control to enter storm or sanitary sewers, lakes, rivers, streams or public waterways. Block off drains and ditches. Provincial regulations require and federal regulations may require that environmental and/or other agencies be notified of a spill incident. Spill area must be cleaned and restored to original condition or to the satisfaction of authorities.



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MATERIAL SAFETY DATA SHEET**SECTION I: IDENTIFICATION OF PRODUCT**

PRODUCT NAME: BIG BEAR DIAMOND DRILL ROD GREASE

CHEMICAL FAMILY: Hydrocarbon

WHMIS CLASSIFICATION: Not Regulated

WORK PLACE HAZARD: Not Applicable

TRANSPORTATION OF DANGEROUS GOODS (TDG)

CLASSIFICATION: Not Regulated

PACKAGE GROUP: Not Applicable

PRODUCT IDENTIFICATION NUMBER (PIN): Not Applicable

SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT	PERCENTAGE	CAS NUMBER	LD50	LC50
Severely hydrocracked naphthenic oils	< 75.00%	64742-52-5	> 5 g/kg (Dermal Rabbit)	Not Determined
Barium soap	< 35.00%	68201-19-4	> 5 g/kg (Oral Rat)	Not Determined

SECTION III: TOXICOLOGICAL PROPERTIES**ROUTE OF ENTRY:**

[X] skin, [] eye contact, [] inhalation, [] ingestion

SKIN CONTACT: Acute exposure is believed to be minimally irritating.

EYE CONTACT: Acute exposure is believed to be minimally irritating.

INHALATION: Believed to be minimally irritating if not in excess of permissible concentrations; see section VIII.

INGESTION: Not Available.

CHRONIC OVEREXPOSURE: Not Determined.

WESTCOAST DRILLING SUPPLIES LTD.

BIG BEAR DIAMOND DRILL ROD GREASE p.2/3

IRRITATION INDEX: SKIN: Believed to be 1.0 - 2.0/8.0 (rabbit); slightly irritating
EYES: Believed to be <15/110 (rabbit); no appreciable effect

SYMPTOMS OF EXPOSURE: None expected other than possible minor irritation. Considered practically non-toxic.

SECTION IV: FIRST AID MEASURES

SKIN CONTACT: None considered necessary.

EYE CONTACT: As with most foreign materials, should eye contact occur, flush eyes with plenty of water.

INHALATION: None considered necessary.

INGESTION: None considered necessary. Do not induce vomiting.

OTHER INSTRUCTIONS: In some cases of ingestion and/or inhalation, medical attention should be obtained.

SECTION V: PHYSICAL DATA

APPEARANCE AND ODOUR:	Brownish yellow, florous grease
DENSITY (SPECIFIC GRAVITY):	> 1.0
BOILING POINT:	700°p
MELTING POINT:	400°p
WATER SOLUBILITY:	Negligible
% VOLATILE BY VOLUME:	Not Determined
EVAPORATION RATE:	Not Determined
VAPOUR PRESSURE: (MM Hg)	Not Determined (low)
VAPOUR DENSITY: (Air = 1)	> 1.0
PH:	Not Applicable
VISCOSITY:	NLGI No. 3-4 grease

SECTION VI: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: > 350°p (COC Method) FLAMMABLE LIMIT: Not Determined

EXTINGUISHING MEDIA: According to the National Fire Protection Association Guide, use water spray. Dry Chemical, Foam, Carbon Dioxide CO₂. Water or foam may cause frothing.

SPECIAL FIRE FIGHTING PROCEDURES: Use water to cool fire-exposed containers. If a leak or spill has not ignited, use water spray to disperse the vapours and to provide protection for persons attempting to stop the leak. See Hazardous Decomposition Products, Section VII.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

WESTCOAST DRILLING SUPPLIES LTD. BIG BEAR DIAMOND DRILL ROD GREASE^{3/3}**SECTION VII: REACTIVITY DATA**STABLE: ☒INSTABLE: ☐ Info not available

INCOMPATIBILITY (CONDITIONS TO AVOID): Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: This material decomposes at a high temperature to form carbon monoxide, carbon dioxide, aldehydes and ketones, combustion products of nitrogen and sulphur.

HAZARDOUS POLYMERIZATION: Will not occur ☒ May occur ☐**SECTION VIII: PREVENTATIVE MEASURES**

RESPIRATORY PROTECTION: None required if exposures are within the permissible concentrations: See below.

VENTILATION: Natural dilution.

PROTECTIVE GLOVES: Neoprene

EYE PROTECTION: Chemical type goggles or face shield optional.

OTHER PROTECTIVE EQUIPMENT: Standard work clothing and work shoes.

PERMISSIBLE CONCENTRATIONS: AIR: 5 mg/cubic metre of air for mineral oil mist averaged over an 8 hour daily exposure (ACGIH, 1986 - 87)

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Exposed persons should exercise reasonable personal cleanliness: this includes cleansing exposed skin areas several times daily with soap and water and laundering or dry cleaning soiled work clothing at least weekly. Minimum feasible handling temperatures should be maintained. Periods of exposure to high temperatures should be minimized. Water contamination should be avoided.

STEPS TO BE TAKEN IN CASE OF SPILL OR LEAK

Contain spill if possible. Wipe up or absorb on suitable material and shovel up.

WASTE DISPOSAL METHOD

Re-evaluation of the product may be required by the user at the time of disposal, since the product uses transformations, mixtures and processes may influence waste classification. Disposal should be in accordance with applicable federal, provincial and local regulations.

SECTION IX: PREPARATION

The information contained herein is given in good faith, but no warranty, expressed or implied is made.

Date issued: Sept. 17, 1993 By: Product Safety Committee

Date Revised:

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Section 1 - Product and Company Identification
NO. 2 DIESEL FUEL/FURNACE OIL/DIESEL FUEL L

Product Identification: NO. 2 DIESEL FUEL/FURNACE OIL/DIESEL FUEL L
Date of MSDS: 10/01/1990 **Technical Review Date:** 11/27/1992
FSC: 9140 NIIN: 00-286-5294
Submitter: D DG
Status Code: C
MFN: 01
Article: N
Kit Part: N

Manufacturer's Information

Manufacturer's Name: CONOCO INC.
Post Office Box: 2197
Manufacturer's Address1:
Manufacturer's Address2: HOUSTON, TX 77252
Manufacturer's Country: US
General Information Telephone: 713-293-5550
Emergency Telephone: 800-441-3637
Emergency Telephone: 800-441-3637
MSDS Preparer's Name: N/P
Proprietary: N
Reviewed: Y
Published: Y
CAGE: DO839
Special Project Code: N

Item Description

Item Name: DIESEL FUEL
Item Manager:
Specification Number: VV-F-800
Type/Grade/Class: GRADE DF-2
Unit of Issue: GL
Unit of Issue Quantity: X
Type of Container: BULK

Contractor Information

Contractor's Name: CONOCO INC.
Post Office Box: 2197
Contractor's Address1:
Contractor's Address2: HOUSTON, TX 77252
Contractor's Telephone: 713-293-5550
Contractor's CAGE: 5R396

Contractor Information

Contractor's Name: CONOCO INC.
Post Office Box: 1267
Contractor's Address1: N/K
Contractor's Address2: PONCA CITY, OK 74603
Contractor's Telephone: 405767-6000
Contractor's CAGE: DO839

Section 2 - Composition/Information on Ingredients
NO. 2 DIESEL FUEL/FURNACE OIL/DIESEL FUEL 1.

Ingredient Name: HYDROCARBONS (ALIPHATIC AND AROMATIC)

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: >90

% Environmental Weight:

Other REC Limits: 400 PPM

OSHA PEL: UNKNOWN **OSHA PEL Code:** M

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:

Ingredient Name: NAPHTHALENE (SARA III)

Ingredient CAS Number: 91-20-3 **Ingredient CAS Code:** M

RTECS Number: QJ0525000 **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: 3.0

% Environmental Weight:

Other REC Limits: NONE RECOMMENDED

OSHA PEL: 10 PPM/15 STEL **OSHA PEL Code:** M

OSHA STEL: **OSHA STEL Code:**

ACGIH TLV: 10 PPM/15 STEL; 9293 **ACGIH TLV Code:** M

ACGIH STEL: N/P **ACGIH STEL Code:**

EPA Reporting Quantity: 100 LBS
DOT Reporting Quantity: 100 LBS
Ozone Depleting Chemical: N

Section 3 - Hazards Identification, Including Emergency Overview
NO. 2 DIESEL FUEL/FURNACE OIL/DIESEL FUEL L

Health Hazards Acute & Chronic: EYES:IRRITATION. SKIN:SKIN IRRITANT.
INHALATION:LUNG IRRITATION, CNS EFFECTS. INGESTION:PRACTICALLY NON-TOXIC TO
INTERNAL ORGANS. HOWEVER, IF ASPIRATED INTO LUNGS IT MAY CAUSE CHEMICAL
PNEUMONITIS WHICH CAN BE FATAL. CHRONIC:MIDDLE DISTILLATE HAS CAUSED SKIN
CANCER WHEN REPEATEDLY APPLIED TO MICE OVER LIFETIME.KIDNEY.

Signs & Symptoms of Overexposure:
SKIN:IRRITATION, DRYING EFFECT. INHALATION: HEADACHE, DIZZINESS, LOSS OF
APPETITE, WEAKNESS AND LOSS OF COORDINATION.

Medical Conditions Aggravated by Exposure:
NONE SPECIFIED BY MANUFACTURER.

LD50 LC50 Mixture: UNKNOWN

Route of Entry Indicators:

Inhalation: YES

Skin: YES

Ingestion: YES

Carcinogenicity Indicators

NTP: NO

IARC: NO

OSHA: NO

Carcinogenicity Explanation: WHOLE DIESEL ENGINE EXHAUST IS LISTED AS A PROBABLE
CARCINOGEN BY IARC AND NIOSH.

Section 4 - First Aid Measures
NO. 2 DIESEL FUEL/FURNACE OIL/DIESEL FUEL L

First Aid:

EYES:FLUSH WITH FRESH WATER FOR 15 MINUTES. SKIN: REMOVE CONTAMINATED
CLOTHING. WASH SKIN THOROUGHLY WITH SOAP AND WATER. SEE A DOCTOR IF
SYMPTOMS DEVELOP. INHALATION: REMOVE TO FRESH AIR. INGESTION: GIVE WATER OR
MILK TO DRINK AND GET IMMEDIATE MEDICAL ATTENTION. DO NOT MAKE PERSON
VOMIT UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL.

Section 5 - Fire Fighting Measures
NO. 2 DIESEL FUEL/FURNACE OIL/DIESEL FUEL L

Fire Fighting Procedures:

WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED
BREATHING APPARATUS. EVACUATE AREA. COOL FIRE EXPOSED CONTAINERS WITH
WATER SPRAY.

Unusual Fire or Explosion Hazard:

COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS
AND VAPORS. LIQUID EVAPORATES AND FORMS VAPORS WHICH CAN CATCH FIRE WITH
VIOLENT BURNING

Extinguishing Media:

USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL.

Flash Point: Flash Point Test: 130F,54C

Autoignition Temperature:

Autoignition Temperature Text: N/K

Lower Limit(s): 0.4

Upper Limit(s): 6

Section 6 - Accidental Release Measures

NO. 2 DIESEL FUEL/FURNACE OIL/DIESEL FUEL L

Spill Release Procedures:

THIS MATERIAL IS CONSIDERED TO BE A WATER POLLUTANT AND RELEASES OF THIS PRODUCT SHOULD BE PREVENTED. ELIMINATE ALL OPEN FLAMES. STOP SOURCE OF THE LEAK. CONTAIN LIQUID. CLEAN UP SPILL USING APPROPRIATE TECHNIQUES SUCH AS ABSORBENT MATERIALS.

Section 7 - Handling and Storage

NO. 2 DIESEL FUEL/FURNACE OIL/DIESEL FUEL L

Handling and Storage Precautions:

Other Precautions:

Section 8 - Exposure Controls & Personal Protection

NO. 2 DIESEL FUEL/FURNACE OIL/DIESEL FUEL L

Respiratory Protection:

NONE NORMALLY REQUIRED. USE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS IF TLV IS EXCEEDED OR WHEN SPRAYING OR USING IN CONFINED SPACES.

Ventilation:

USE THIS MATERIAL ONLY IN WELL VENTILATED AREAS.

Protective Gloves:

PVC

Eye Protection: GOGGLES

Other Protective Equipment: WEAR PROTECTIVE CLOTHINGS.

Work Hygienic Practices: WASH HANDS THOROUGHLY AFTER HANDLING THIS PRODUCT.

Supplemental Health & Safety Information: NONE

Section 9 - Physical & Chemical Properties

NO. 2 DIESEL FUEL/FURNACE OIL/DIESEL FUEL L

HCC: F4

NRC/State License Number:

Net Property Weight for Ammo:

Boiling Point: Boiling Point Text: 350F,177C

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

Decomposition Point: Decomposition Text: UNKNOWN

Vapor Pressure: 1 Vapor Density: >1

Percent Volatile Organic Content:

Specific Gravity: 0.85-0.93

Volatile Organic Content Pounds per Gallon:

pH: N/A

Volatile Organic Content Grams per Liter:

Viscosity: 1.9 CST

Evaporation Weight and Reference: N/K

Solubility in Water: INSOLUBLE

Appearance and Odor: CLEAR OR LIGHT YELLOW LIQUID, AROMATIC ODOR

Percent Volatiles by Volume: NIL

Corrosion Rate: UNKNOWN

Section 10 - Stability & Reactivity Data
NO. 2 DIESEL FUEL/FURNACE OIL/DIESEL FUEL L

Stability Indicator: YES

Materials to Avoid:

STRONG OXIDIZING AGENTS

Stability Condition to Avoid:

HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION

Hazardous Decomposition Products:

TOXIC CARBON MONOXIDE AND CARBON DIOXIDE, AND SULFUR DIOXIDE.

Hazardous Polymerization Indicator: NO

Conditions to Avoid Polymerization:

NOT APPLICABLE

Section 11 - Toxicological Information
NO. 2 DIESEL FUEL/FURNACE OIL/DIESEL FUEL L

Toxicological Information:

N/P

Section 12 - Ecological Information
NO. 2 DIESEL FUEL/FURNACE OIL/DIESEL FUEL L

Ecological Information:

N/P

Section 13 - Disposal Considerations
NO. 2 DIESEL FUEL/FURNACE OIL/DIESEL FUEL L

Waste Disposal Methods:

PLACE CONTAMINATED MATERIALS IN DISPOSABLE CONTAINERS AND DISPOSE OF IN A MANNER CONSISTENT WITH APPLICABLE REGULATIONS. CONTACT LOCAL ENVIRONMENTAL OR HEALTH AUTHORITIES FOR APPROVED DISPOSAL OF THIS MATERIAL.

Section 14 - MSDS Transport Information
NO. 2 DIESEL FUEL/FURNACE OIL/DIESEL FUEL L

Transport Information:

N/P

Section 15 - Regulatory Information
NO. 2 DIESEL FUEL/FURNACE OIL/DIESEL FUEL L

SARA Title III Information:

N/P

Federal Regulatory Information:

N/P

State Regulatory Information:

N/P

Section 16 - Other Information
NO. 2 DIESEL FUEL/FURNACE OIL/DIESEL FUEL L

Other Information:
N/P

HMS Transportation Information

Product Identification: NO. 2 DIESEL FUEL/FURNACE OIL/DIESEL FUEL L

Transportation ID Number: 66870

Responsible Party CAGE: D0839

Date MSDS Prepared: 10/01/1990

Date MSDS Reviewed: 11/27/1992

MFN: 11/27/1992

Submitter: D DG

Status Code: C

Container Information

Unit of Issue: GL

Container Quantity: X

Type of Container: BULK

Net Unit Weight:

Article without MSDS: N

Technical Entry NOS Shipping Number: HYDROCARBONS(ALIPHATIC AND AROMATIC),
NAPHTHALENE.

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:

NONE

Department of Transportation Information

DOT Proper Shipping Name: GAS OIL OR DIESEL FUEL OR HEATING OIL, LIGHT

DOT PSN Code: GTF

Symbols:

DOT PSN Modifier:

Hazard Class: 3

UN ID Number: UN1202

DOT Packaging Group: III

Label: FLAMMABLE LIQUID

Special Provision(s): B1,T7,T30

Packaging Exception: 150

Non Bulk Packaging: 203

Bulk Packaging: 242

Maximum Quantity in Passenger Area: 60 L

Maximum Quantity in Cargo Area: 220 L

Stow in Vessel Requirements: A

Requirements Water/Sp/Other:

IMO Detail Information

IMO Proper Shipping Name: GAS OIL
IMO PSN Code: HRR
IMO PSN Modifier:
IMDG Page Number: 3375
UN Number: 1202
UN Hazard Class: 3.3
IMO Packaging Group: III
Subsidiary Risk Label: -
EMS Number: 3-07
Medical First Aid Guide Number: 311

IATA Detail Information

IATA Proper Shipping Name: GAS OIL
IATA PSN Code: MTX
IATA PSN Modifier:
IATA UN Id Number: 1202
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: A3

AFI Detail Information

AFI Proper Shipping Name: GAS OIL OR DIESEL FUEL OR HEATING OIL, LIGHT
AFI Symbols:
AFI PSN Code: MTX
AFI PSN Modifier:
AFI UN Id Number: UN1202
AFI Hazard Class: 3
AFI Packing Group: III
AFI Label:
Special Provisions: P5
Back Pack Reference: A7.3

HAZCOM Label Information

Product Identification: NO. 2 DIESEL FUEL/FURNACE OIL/DIESEL FUEL L
CAGE: D0839
Assigned Individual: Y
Company Name: CONOCO INC.
Company PO Box: 1267
Company Street Address1: N/K
Company Street Address2: PONCA CITY, OK 74603 US
Health Emergency Telephone: 800-441-3637
Label Required Indicator: Y
Date Label Reviewed: 11/27/1992
Status Code: C
Manufacturer's Label Number: NONE
Date of Label: 11/27/1992
Year Procured: 1992
Organization Code: F
Chronic Hazard Indicator: Y
Eye Protection Indicator: YES
Skin Protection Indicator: YES
Respiratory Protection Indicator: YES
Signal Word: WARNING

Health Hazard: Slight
Contact Hazard: Slight
Fire Hazard: Moderate
Reactivity Hazard: None