

ENGINEERING RAW MATERIAL SPECIFICATIONS
BASIC MATERIAL DESCRIPTION

MATERIAL: Grease
FORM OR SHAPE: Paste
SPECIFICATIONS: BD-L 2.0 Grease

BASIC MATERIAL CODE
30302000

DATE PREPARED
2004-04-19

AUTHORIZED BY:
A. Mulindwa

Page 1 of 3

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STD MATERIAL DESCRIPTION: Grease

UNIT OF MEASURE: lbs/kgs

COLOR CODE IDENTIFICATION:

MATERIAL CODE

INDIVIDUAL ITEM SPECIFICATIONS

30302000-00

Soap Type: Lithium Complex
Color: Amber
Texture: Smooth, tacky
NLGI Grade: 2
Base Oil Viscosity
@ 40°C 632.5 c. St/ SSU
@ 100°C 43.96 c St/ SSU
Base Oil Viscosity Index 116
Additive Proprietary to Cato Oil & Grease Co.
Dropping Point D-2265 500 °F/260 °C
Penetration Worked: D-217
60 strokes mm/10 265-295
10,000 strokes mm/10 265-295
100,000 strokes mm/10 265-295
Oil Separation Storage: D-1742 0.1% typ.

Oil Separation, Federal Spec VV-L-791e

The grease shall not lose more than 0.5% of its weight after 50 hours at 160°F as determined by methods #321.1 of Federal Spec VV-L-791e modified as follows:

The nickel cone shall conform to the following details:

Diameter 38 mm
Height 32 mm
Number of holes 200 ± 5
Size of holes 1 mm

APPROVED SUPPLIER(S):

Diversity Chemical Management Services
Nashville, Tennessee
CITGO Petroleum
915 M. L. King Road
Oklahoma City, OK 73117

Product Code:
GC-60B

Issued EC: 0233541

Released Date: 7-13-07

Supercedes ECN: 0222557

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MATERIAL CODE	INDIVIDUAL ITEM SPECIFICATIONS																			
	<p><u>Oxidation Stability:</u> The grease, when tested by Norma Hoffman Bomb method D-942, shall exhibit no more than 5.0 psi pressure drop in 100 hours.</p> <p><u>Performance:</u></p> <p>a.) The grease, when tested in a wheel bearing tester per D-1263, shall show no leakage in the collection ring in the excess of 6 gms nor shall deposits be formed in the bearing races or on the rollers. There shall be no abnormal changes in the consistency or structure of the grease.</p> <p>b.) Load Carrying Properties:</p> <table style="width: 100%;"> <tr> <td>4-Ball EP Test</td> <td>D-2596</td> <td></td> </tr> <tr> <td>Load Wear Index</td> <td></td> <td>50 kg</td> </tr> <tr> <td>Weld Point</td> <td></td> <td>315 kg</td> </tr> </table> <p>4-Ball Wear Test D-2266 40 kb, 1800 RPM, 75°C, 1 Hr Scar. dia 0.54 mm</p> <p>c.) Low temperature Torque, D-1478</p> <table style="width: 100%;"> <tr> <td>Starting Torque</td> <td>gm-cm @ -20°F</td> </tr> <tr> <td>Running Torque</td> <td>gm-cm @ -20°F</td> </tr> </table> <p><u>Work Stability:</u> Place approximately 150 grams of the grease sample in a Shell Roll Tester apparatus and work the grease under the following test conditions:</p> <table style="width: 100%;"> <tr> <td>Temperature</td> <td>150°F + -20°F</td> </tr> <tr> <td>Speed</td> <td>10 RPM</td> </tr> <tr> <td>Test Time</td> <td>100 Hours</td> </tr> </table>	4-Ball EP Test	D-2596		Load Wear Index		50 kg	Weld Point		315 kg	Starting Torque	gm-cm @ -20°F	Running Torque	gm-cm @ -20°F	Temperature	150°F + -20°F	Speed	10 RPM	Test Time	100 Hours
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APPROVED SUPPLIER(S): Diversity Chemical Management Services Nashville, Tennessee CITGO Petroleum 915 M. L. King Road Oklahoma City, OK 73117	Product Code: GC-60B
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INDIVIDUAL ITEM SPECIFICATIONS

At the end of the test time, the grease shall be allowed to cool to 70°F + 1°F. The penetration of the grease shall be then determined by the unworked penetration method as specified by ASTM D-217. The observed penetration shall be recorded and compared with the original worked penetration of the grease for determining compliance with the following:

- a.) The grease shall not liquify nor separate into its oil and soap components. However, a slight amount of bleeding shall be permissible.
- b.) The penetration of the grease, following the work stability, shall not be more than 10% higher or lower than the original unworked penetration of the grease.

Working Temperature Range

The grease shall be compounded of materials so as to provide proper lubrication of tools at a temperature range of -10°F to 325°F.

Corrosion resistance: D-1743 ASTM Rating: 1,1,1

Water Washout @ 80°C: D-1264 % loss

APPROVED SUPPLIER(S):

Diversity Chemical Management Services
Nashville, Tennessee
CITGO Petroleum
915 M. L. King Road
Oklahoma City, OK 73117

Product Code:
GC-60B

PRODUCTION P/H
30302000-00

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INFO FILE ROSE BEAN, SHARON GORSUCH

AT:BT TO. PB MSC
PART NOS.
429698-00
284053-00
284232-00
400503-00



BDL-2

Material Safety Data Sheet

CITGO Petroleum Corporation
P.O. Box 3758
Tulsa, OK 74102-3758

MSDS No. 665680139
Revision Date 08/29/1999




Hazard Rankings		
	HMIS	NFPA
Health Hazard	1	1
Fire Hazard	1	1
Reactivity	0	0

* = Chronic Health Hazard

IMPORTANT: Read this MSDS before handling or disposing of this product and pass this information on to employees, customers and users of this product.

Emergency Overview			
Physical State	Semi-solid to solid.		
Color	Amber.	Odor	Mild Petroleum Odor

WARNING:
If stored or applied via high-pressure grease gun or hydraulic systems, a potential skin injection hazard may exist. Injection under the skin can cause severe injury. Most damage occurs in the first few hours.
If heated, may cause thermal burns on contact.
This product can cause mild skin irritation and inflammation.
Spills may create a slipping hazard.

Protective Equipment
Minimum Requirements See Section 8 for Details
 


SECTION 1: IDENTIFICATION

Trade Name	BDL-2	Technical Contact	(818) 495-5933
Product Number	665680139	Medical Emergency	(918) 495-4700
CAS Number	Mixture.	CHEMTREC Emergency	(800) 424-9300
Product Family	Lubricating Grease		
Synonyms	Lubricating Grease. Legacy Code No.: 5813X139; Former ILS Code: 66680; CITGO SAP Product Code No.: 665680139		

SECTION 2: COMPOSITION

Component Name(s)	CAS Registry No.	Concentration (%)
1) Distillates, petroleum, hydrotreated heavy naphthenic	64742-52-5	70 - 90
2) Highly-Refined Petroleum Lubricant Oil	64742-01-4	1 - 15
3) Lithium Stearate Soap	7620-77-1	1 - 15
4) Lithium Carboxylate Soap	Proprietary	1 - 15
5) Proprietary Ingredients	Proprietary Mixture	1 - 15

SECTION 3: HAZARDS IDENTIFICATION

Also see Emergency Overview and Hazard Ratings on the top of Page 1 of this MSDS.

Major Route(s) of Entry Skin contact.

Signs and Symptoms of Acute Exposure

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- Inhalation** No significant adverse health effects are expected to occur upon short-term exposure at ambient temperatures. If heated above its flash point, this product's vapors may cause respiratory tract irritation. Repeated or prolonged overexposure to product mists can result in respiratory tract inflammation and an increased risk of infection.
- Eye Contact** This material can cause mild to moderate eye irritation from contact with product or product mists.
- Skin Contact** This material can cause mild skin irritation from prolonged or repeated skin contact. Injection under the skin, in muscle, or into the blood stream can cause irritation, inflammation, swelling, fever, and systemic effects and mild central nervous system depression. Injection of pressurized hydrocarbons can cause severe, permanent tissue damage. Initial symptoms may be minor. Injection of petroleum hydrocarbons requires immediate medical attention.
- Ingestion** If swallowed, no significant adverse health effects are anticipated. This material can cause a laxative effect. Ingestion of large quantities can cause intestinal obstruction. Contact with hot material may cause thermal burns.
- Chronic Health Effects Summary** Contains a petroleum-based mineral oil. Prolonged or repeated skin contact can cause mild irritation and inflammation characterized by drying, cracking, (dermatitis) or oil acne. Inhalation of petroleum-based mineral oils can cause respiratory irritation or other pulmonary effects after repeated or prolonged inhalation of oil mists at concentrations above applicable workplace exposure levels.
- Conditions Aggravated by Exposure** Personnel with pre-existing skin disorders should avoid repeated or prolonged contact with this product.
- Target Organs** Skin.
- Carcinogenic Potential** This product does not contain any components at concentrations above 0.1% which are considered carcinogenic by OSHA, IARC, or NTP.

<p>OSHA Hazard Classification is indicated by an "X" in the box adjacent to the hazard title. If no "X" is present, the product does not exhibit the hazard as defined in the OSHA Hazard Communication Standard (29 CFR 1910.1200).</p>					
OSHA Health Hazard Classification			OSHA Physical Hazard Classification		
Irritant <input type="checkbox"/>	Toxic <input type="checkbox"/>	Combustible <input type="checkbox"/>	Explosive <input type="checkbox"/>	Pyrophoric <input type="checkbox"/>	
Sensitizer <input type="checkbox"/>	Highly Toxic <input type="checkbox"/>	Flammable <input type="checkbox"/>	Oxidizer <input type="checkbox"/>	Water-reactive <input type="checkbox"/>	
Corrosive <input type="checkbox"/>	Carcinogenic <input type="checkbox"/>	Compressed Gas <input type="checkbox"/>	Organic Peroxide <input type="checkbox"/>	Unstable <input type="checkbox"/>	

SECTION 4: FIRST AID MEASURES

Take proper precautions to ensure your own health and safety before attempting rescue or providing first aid. For more specific information, refer to Exposure Controls and Personal Protection in Section 8 of this MSDS.

- Inhalation** Vaporization is not expected at ambient temperatures. This material is not expected to cause inhalation-related disorders under anticipated conditions of use. In case of overexposure, move the person to fresh air.
- Eye Contact** Check for and remove contact lenses. Flush eyes with cool, clean, low-pressure water while occasionally lifting and lowering eyelids. Seek medical attention if excessive tearing, redness, or pain persists.
- Skin Contact** Remove contaminated shoes and clothing. Wipe off excess material. Wash exposed skin with soap and water. Seek medical attention if tissue appears damaged or if irritation persists. Thoroughly clean contaminated clothing before reuse. Discard contaminated leather goods. If material is injected under the skin, into muscle, or into the bloodstream, seek medical attention immediately.
- Ingestion** Do not induce vomiting unless directed to by a physician. Rinse out mouth with water. Never give anything by mouth to a person who is not fully conscious. Permit small quantities to pass through system. If large amounts are swallowed or irritation or discomfort occurs, seek medical attention immediately.
- Notes to Physician** In the event of injection in underlying tissue, immediate treatment should include extensive incision, debridement and saline irrigation. Inadequate treatment can result in ischemia and gangrene. Early symptoms may be minimal.

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SECTION 5: FIRE FIGHTING MEASURES

NFPA Flammability Classification	OSHA/NFPA Class-III B combustible liquid. Slightly combustible!		
Flash Point/Method	OPEN CUP: GT 200°C (GT 392°F).		
Lower Flammable Limit	AP 1 %	Upper Flammable Limit	AP 7 %
Auto-ignition Temp.	Not available.		
Hazardous Combustion Products	Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons and trace oxides of sulfur, phosphorus, zinc and nitrogen.		
Special Properties	Fight the fire from a safe distance in a protected location. Open any masses with a water stream to prevent reignition due to smoldering. Cool surface with water fog. Molten material can form flaming droplets if ignited. Water or foam can cause frothing. Use of water on product above 100° C (212° F) can cause product to expand with explosive force. Do not allow liquid runoff to enter sewers or public waters.		
Extinguishing Media	Use dry chemical, foam, Carbon Dioxide or water fog.		
Fire Fighting Protective Clothing	Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies.		

SECTION 6: ACCIDENTAL RELEASE MEASURES

Take proper precautions to ensure your own health and safety before attempting spill control or clean-up. For more specific information, refer to the Emergency Overview on Page 1, Exposure Controls and Personal Protection in Section 8 and Disposal Considerations in Section 13 of this MSDS.

Do not touch damaged containers or spilled material unless wearing appropriate protective equipment. Slipping hazard; do not walk through spilled material. Stop leak if you can do so without risk. For small spills, absorb or cover with dry earth, sand, or other inert non-combustible absorbent material and place into waste containers for later disposal. Contain large spills to maximize product recovery or disposal. Prevent entry into waterways or sewers. In urban areas, cleanup spill as soon as possible. In natural environments, seek cleanup advice from specialists to minimize physical habitat damage. This material will float on water. Absorbent pads and similar materials can be used. Comply with all laws and regulations.

SECTION 7: HANDLING AND STORAGE

Handling	If this product is to be stored or applied via high-pressure grease gun or hydraulic lines, it might accidentally be injected into the eyes, skin, and/or underlying tissues. Hydrocarbon compounds injected into underlying tissues are not readily removed by body fluids and can cause pain, swelling, chemical irritation, and infection. Workers must be trained in the danger of this type of injury and should promptly seek special medical treatment if injected. Avoid water contamination and elevated temperatures to minimize product degradation. Empty containers may contain product residues that can ignite with explosive force. Do not pressurize, cut, weld, braze solder, drill, grind or expose containers to flames, sparks, heat or other potential ignition sources. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers and/or waste residues of this product.
Storage	Keep container closed. Do not store with strong oxidizing agents. Do not store at temperatures above 120° F or in direct sunlight for extended periods of time. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers or waste residues of this product.

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SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits (see below). An eye wash station and safety shower should be located near the work-station.

Personal Protective Equipment Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to OSHA regulations. The following pictograms represent the minimum requirements for personal protective equipment. For certain operations, additional PPE may be required.



Eye Protection Safety glasses equipped with side shields should be adequate protection under most conditions of use. Wear goggles and/or face shield if splashing or spraying is likely, especially if material is heated above 125°F (or 51°C). Have suitable eye wash water available.

Hand Protection Use gloves constructed of chemical resistant materials such as neoprene or heavy nitrile rubber if frequent or prolonged contact is expected. Use heat-protective gloves when handling product at elevated temperatures.

Body Protection Use clean and impervious protective clothing (e.g., neoprene or Tyvek®) if splashing or spraying conditions are present. Protective clothing may include long-sleeve outer garment, apron, or lab coat. If significant contact occurs, remove oil-contaminated clothing as soon as possible and promptly shower. Launder contaminated before reuse or discard. Wear heat protective boots and protective clothing when handling material at elevated temperatures.

Respiratory Protection Vaporization or misting is not expected at ambient temperatures. Therefore, the need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used. Protection factors vary depending upon the type of respirator used. Respirators should be used in accordance with OSHA requirements (29 CFR 1910.134).

General Comments Use good personal hygiene practices. Wash hands and other exposed skin areas with plenty of mild soap and water before eating, drinking, smoking, use of toilet facilities, or leaving work. DO NOT use gasoline, kerosene, solvents or harsh abrasives as skin cleaners. Since specific exposure standards/control limits have not been established for this product, the "Oil Mist, Mineral" exposure limits shown below are suggested as minimum control guidelines.

Occupational Exposure Guidelines

Substance	Applicable Workplace Exposure Levels
1) Highly-Refined Petroleum Lubricant Oils	TWA: 5 STEL: 10 (mg/M ³) from ACGIH (TLV) TWA: 5 (mg/M ³) from OSHA (PEL) TWA: 5 STEL: 10 (mg/M ³) from NIOSH

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Semi-solid to solid.	Color	Amber.	Odor	Mild Petroleum Odor
Specific Gravity	0.83 (Water = 1)	pH	Not applicable.	Vapor Density	GT 10 (Air = 1)
Boiling Point/Range	Not available.	Melting/Freezing Point			Not available.
Vapor Pressure	Not applicable.	Viscosity (cSt @ 40°C)			Not available.
Solubility in Water	Insoluble in cold water.	Volatile Characteristics			Negligible volatility
Additional Properties	Density = 7.78 lbs/gal.				

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SECTION 10: STABILITY AND REACTIVITY

Chemical Stability	Stable.	Hazardous Polymerization	Not expected to occur.
Conditions to Avoid	Keep away from extreme heat, open flame, and strongly oxidizing conditions.		
Materials Incompatibility	Strong oxidizers.		
Hazardous Decomposition Products	No additional hazardous decomposition products were identified other than the combustion products identified in Section 5 of this MSDS.		

SECTION 11: TOXICOLOGICAL INFORMATION

For other health-related information, refer to the Emergency Overview on Page 1 and the Hazards Identification in Section 3 of this MSDS.

Toxicity Data	Distillates, petroleum, hydrotreated heavy naphthenic.		
	ORAL (LD50):	Acute: >5000 mg/kg [Rat].	
	DERMAL (LD50):	Acute: >2000 mg/kg [Rabbit].	
	Highly-Refined Petroleum Lubricant Oils:		
	ORAL (LD50):	Acute: >5000 mg/kg [Rat].	
	DERMAL (LD50):	Acute: >2000 mg/kg [Rabbit].	
	Distillates, petroleum, hydrotreated heavy naphthenic.		
	Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects.		
	Highly-Refined Petroleum Lubricant Oils:		
	Mineral oil mists derived from highly refined oils are reported to have low acute and sub-acute toxicities in animals. Effects from single and short-term repeated exposures to high concentrations of mineral oil mists well above applicable workplace exposure levels include lung inflammatory reaction, lipoid granuloma formation and lipoid pneumonia. In acute and sub-acute studies involving exposures to lower concentrations of mineral oil mists at or near current work place exposure levels produced no significant toxicological effects. In long term studies (up to two years) no carcinogenic effects have been reported in any animal species tested.		
	Greases:		
	Injection of pressurized hydrocarbons under the skin, in muscle or into the blood stream can cause irritation, inflammation, swelling, fever, and systemic effects, including mild central nervous system depression. Injection of pressurized hydrocarbons can cause severe, permanent tissue damage.		

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	Ecological effects testing has not been conducted on this material. Releases are expected to cause only localized non-persistent environmental damage.
Environmental Fate	Ecological effects testing has not been conducted on this product. However, plants and animals may experience harmful or fatal effects when coated with petroleum-based products. Petroleum-based (mineral) lube oils will normally float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway can result in a loss of marine life or create an anaerobic environment. This material contains phosphorus which is a controlled element for disposal in effluent waters in most sections of North America. Phosphorus is known to enhance the formation of algae. Severe algae growth can reduce oxygen content in the water possibly below levels necessary to support marine life.

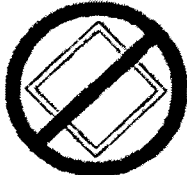
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SECTION 13: DISPOSAL CONSIDERATIONS

Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition.

Conditions of use may cause this material to become a hazardous waste, as defined by Federal or State regulations. It is the responsibility of the user to determine if the material is a hazardous waste at the time of disposal. Transportation, treatment, storage and disposal of waste material must be conducted in accordance with RCRA regulations (see 40 CFR 260 through 40 CFR 271). State and/or local regulations may be more restrictive. Contact the RCRA/Superfund Hotline at (800) 424-9346 or your regional US EPA office for guidance concerning case specific disposal issues.

SECTION 14: TRANSPORT INFORMATION

DOT Status	Not a U.S. Department of Transportation regulated material.		
Proper Shipping Name	Petroleum products n.o.s.		
Hazard Class	Not a DOT controlled material (United States).	Packing Group(s)	Not applicable.
		UN/NA ID	Not applicable.
Reportable Quantity	A Reportable Quantity (RQ) has not been established for any components of this material.		
Placards		Emergency Response Guide No.	Not applicable.
		HAZMAT STCC No.	Not applicable.
		MARPOL III Status	Not a DOT "Marine Pollutant" per 49 CFR 171.8.

SECTION 15: REGULATORY INFORMATION

TSCA Inventory	This product and/or its components are listed on the Toxic Substance Control Act (TSCA) inventory.
SARA 302/304	The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. No components were identified.
SARA 311/312	The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories: No SARA 311/312 hazard categories identified.
SARA 313	This product contains the following components in concentrations above de minimis levels that are listed as toxic chemicals in 40 CFR Part 372 pursuant to the requirements of Section 313 of SARA: No components were identified.
CERCLA	The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. This product or refinery stream is not known to contain chemical substances subject to this statute. However, it is recommended that you contact state and local authorities to determine if there are any other reporting requirements in the event of a spill.
CWA	This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.

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California
Proposition 65

This product is not known to contain the any components for which the State of California has found to cause cancer, birth defects or other reproductive harm.

New Jersey
Right-to-Know Label

Grease

Additional Regulatory
Remarks

Section 12(b) of Toxic Substances Control Act: This material contains detectable amounts of isopropyl Alcohol (67-63-0). Accordingly, this product is subject to US EPA's one-time only per country export notification requirements.

SECTION 16: OTHER INFORMATION

Refer to the top of Page 1 for the HMIS and NFPA Hazard Ratings for this product.

REVISION INFORMATION

Version Number 1.0
Revision Date 09/29/1999
Print Date Printed on 09/29/1999.

ABBREVIATIONS

AP = Approximately EQ = Equal GT = Greater Than LT = Less Than NA = Not Applicable ND = No Data
NE = Not Established
ACGIH = American Conference of Governmental Industrial Hygienists AIHA = American Industrial Hygiene Association
IARC = International Agency for Research on Cancer NTP = National Toxicology Program
NIOSH = National Institute of Occupational Safety and Health OSHA = Occupational Safety and Health Administration
NPCA = National Paint and Coating Manufacturers Association HMIS = Hazardous Materials Information System
NFPA = National Fire Protection Association EPA = Environmental Protection Agency

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***** END OF MSDS *****