



MATERIAL SAFETY DATA SHEET

Section 1: Product & Company Identification

Product Name: Extreme Pressure Engine Assembly Lube

Product Number (s): SL3331, SL3333

Product Use: engine assembly lubricant

Manufacturer / Supplier Contact Information:

In United States:

CRC Industries, Inc.

885 Louis Drive

Warminster, PA 18974

www.crcindustries.com

1-215-674-4300 (General)

(800) 521-3168 (Technical)

(800) 272-4620 (Customer Service)

In Canada:

CRC Canada Co.

2-1246 Lorimar Drive

Mississauga, Ontario L5S 1R2

www.crc-canada.ca

1-905-670-2291

In Mexico:

CRC Industries Mexico

Av. Benito Juárez 4055 G

Colonia Orquídea

San Luís Potosí, SLP CP 78394

www.crc-mexico.com

52-444-824-1666

24-Hr Emergency – CHEMTREC: (800) 424-9300 or (703) 527-3887

Section 2: Hazards Identification

Emergency Overview

Appearance & Odor: Black semi-solid to solid grease, faint petroleum odor

Potential Health Effects:

ACUTE EFFECTS:

EYE: May cause irritation

SKIN: Repeated or prolonged contact can result in drying of skin.

INHALATION: Heating can generate vapors that may cause respiratory irritation, nausea and headaches. Inhalation hazard at room temperature is unlikely due to the low volatility of this product.

INGESTION: Can cause stomach ache and vomiting. Main hazard, if ingested, is aspiration into the lungs and subsequent pneumonitis.

CHRONIC EFFECTS: Unknown

TARGET ORGANS: None known

Medical Conditions Aggravated by Exposure: Skin or respiratory conditions

See Section 11 for toxicology and carcinogenicity information on product ingredients.

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Section 3: Composition/Information on Ingredients

| COMPONENT | CAS NUMBER | % by Wt. |
|---|-------------------|-----------------|
| Lubricant base oil blend (highly refined) | mixture | 87 – 93 |
| Lithium 12-hydroxystearate | 7620-77-1 | 3 – 7 |
| 1,2,3-Propanetriol | 56-81-5 | 1 – 5 |

Section 4: First Aid Measures

Eye Contact: Immediately flush with plenty of water for 15 minutes. Call a physician if irritation persists.

Skin Contact: Remove contaminated clothing and wash affected area with soap and water. Call a physician if irritation persists. Wash contaminated clothing prior to re-use.

Inhalation: Remove person to fresh air. Keep person calm. If not breathing, give artificial respiration. If breathing is difficult give oxygen. Call a physician.

Ingestion: Do NOT induce vomiting. Seek medical attention.

Note to Physicians: Injection injury warning: Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

Section 5: Fire-Fighting Measures

Flammable Properties: As defined by OSHA, this product is nonflammable.

| | | | |
|---------------------------|---------------|------------------------|----|
| Flash Point: | 450°F / 232°C | Upper Explosive Limit: | ND |
| Autoignition Temperature: | ND | Lower Explosive Limit: | ND |

Fire and Explosion Data:

Suitable Extinguishing Media: CO2, dry chemical, sand, dolomite, alcohol resistant foam, water spray

Products of Combustion: Oxides of carbon, acrid smoke/fumes

Explosion Hazards: Containers, when exposed to heat from fire, may build pressure and rupture.

Protection of Fire-Fighters: Firefighters should wear self-contained, NIOSH-approved breathing apparatus for protection against suffocation and possible toxic decomposition products. Proper eye and skin protection should be provided. Use water spray to keep fire-exposed containers cool and to knock down vapors which may result from product decomposition. Avoid water in straight hose stream as it will scatter and spread fire.

Section 6: Accidental Release Measures

Personal Precautions: Use personal protection recommended in Section 8. Minimize skin contact.

Environmental Precautions: Take precautions to prevent contamination of ground and surface waters. Do not flush into sewers or storm drains. Advise authorities if product has entered waterways.

Methods for Containment & Clean-up: Dike area to contain spill. Ventilate the area with fresh air. If in confined space or limited air circulation area, clean-up workers should wear appropriate

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respiratory protection. Recover or absorb spilled material using an absorbent designed for chemical spills. Place used absorbents into proper waste containers.

Section 7: Handling and Storage

Handling Procedures: Keep container away from heat, sparks, and open flame. High temperatures may produce irritating vapors. Eye wash station should be available at work place. Ventilate well, especially in warmer environments. For product use instructions, please see the product label.

Storage Procedures: Store in a cool dry area out of direct sunlight. Store separated from acids and oxidizing materials. Store away from sparks and open flame. Keep containers closed when not in use.

Aerosol Storage Level: NA

Section 8: Exposure Controls/Personal Protection

Exposure Guidelines:

| COMPONENT | OSHA | | ACGIH | | OTHER | | UNIT |
|--|------|------|-------|------|-------|--------|-------------------|
| | TWA | STEL | TWA | STEL | TWA | SOURCE | |
| Lubricant base oil blend | 5* | NE | 5* | 10* | NE | | mg/m ³ |
| Lithium 12-hydroxystearate | NE | NE | NE | NE | NE | | |
| 1,2,3-Propanetriol | 10 | NE | 10 | NE | NE | | mg/m ³ |
| N.E. – Not Established (c) – ceiling (s) – skin (v) – vacated * – oil mist | | | | | | | |

Controls and Protection:

Engineering Controls: Area should have ventilation to provide fresh air. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at the source, preventing dispersion into the general work area. Use mechanical means if necessary to maintain vapor levels below the exposure guidelines. If working in a confined space, follow applicable OSHA regulations.

Respiratory Protection: None required for normal work where adequate ventilation is provided. If engineering controls are not feasible or if exposure exceeds the applicable exposure limits, use a NIOSH-approved cartridge respirator with organic vapor cartridge. Air monitoring is needed to determine actual employee exposure levels. Use a self-contained breathing apparatus in confined spaces and for emergencies.

Eye/face Protection: For normal conditions, wear safety glasses. Where there is reasonable probability of liquid contact, wear splash-proof goggles.

Skin Protection: Use protective gloves such as neoprene, nitrile, polyethylene or PVC. Also, use full protective clothing if there is prolonged or repeated contact of liquid with skin.

Section 9: Physical and Chemical Properties

Physical State: semi-solid grease
Color: black
Odor: mild petroleum
Odor Threshold: ND
Specific Gravity: 0.90 @ 60°F / 15°C
Initial Boiling Point: ND

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Freezing Point: ND
Vapor Pressure: < 0.1 mmHg @ 68°F / 20°C
Vapor Density: > 5 (air = 1)
Evaporation Rate: slow
Solubility: insoluble in water
Coefficient of water/oil distribution: ND
pH: NA
Volatile Organic Compounds: wt %: < 0.1 g/L: < 0.9 lbs./gal: < 0.007

Section 10: Stability and Reactivity

Stability: Stable
Conditions to Avoid: None
Incompatible Materials: Avoid contact with acids and oxidizing substances
Hazardous Decomposition Products: Oxides of carbon
Possibility of Hazardous Reactions: No

Section 11: Toxicological Information

Long-term toxicological studies have not been conducted for this product. The following information is available for components of this product.

Acute Toxicity:

| Component | Oral LD50 (rat) | Dermal LD50 (rabbit) | Inhalation LC50 (rat) |
|----------------------------|-----------------|----------------------|-----------------------|
| Lubricant base oil blend | > 5000 mg/kg | > 2000 mg/kg | No data |
| Lithium 12-hydroxystearate | No data | No data | No data |
| 1,2,3-Propanetriol | No data | No data | No data |

Chronic Toxicity:

| Component | OSHA Carcinogen | IARC Carcinogen | NTP Carcinogen | Irritant | Sensitizer |
|----------------------------|-----------------|-----------------|----------------|----------|------------|
| Lubricant base oil blend | No | No | No | unknown | unknown |
| Lithium 12-hydroxystearate | No | No | No | unknown | unknown |
| 1,2,3-Propanetriol | No | No | No | unknown | unknown |

E – Eye S – Skin R - Respiratory

Reproductive Toxicity: No information available
Teratogenicity: No information available
Mutagenicity: No information available
Synergistic Effects: No information available

Section 12: Ecological Information

Ecological studies have not been conducted for this product. The following information is available for components of this product.

Ecotoxicity: No information available
Persistence / Degradability: No information available
Bioaccumulation / Accumulation: No information available

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Mobility in Environment: No information available

Section 13: Disposal Considerations

Waste Classification: This product is not a RCRA hazardous waste (See 40 CFR Part 261.20 – 261.33).
Empty containers may be recycled.

All disposal activities must comply with federal, state, provincial and local regulations. Local regulations may be more stringent than state, provincial or national requirements.

Section 14: Transport Information

US DOT (ground): Not regulated

ICAO/IATA (air): Not regulated

IMO/IMDG (water): Not regulated

Special Provisions: None

Section 15: Regulatory Information

U.S. Federal Regulations:

Toxic Substances Control Act (TSCA):

All ingredients are either listed on the TSCA inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Reportable Quantities (RQ's) exist for the following ingredients: None

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center (800-424-8802) and to your Local Emergency Planning Committee.

Superfund Amendments Reauthorization Act (SARA) Title III:

Section 302 Extremely Hazardous Substances (EHS): None

| | | |
|------------------------------------|-----------------------|----|
| Section 311/312 Hazard Categories: | Fire Hazard | No |
| | Reactive Hazard | No |
| | Release of Pressure | No |
| | Acute Health Hazard | No |
| | Chronic Health Hazard | No |

Section 313 Toxic Chemicals: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:
None

Clean Air Act:

Section 112 Hazardous Air Pollutants (HAPs): None

Occupational Safety and Health Administration:

This product is regulated by the Hazard Communications Standard.

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U.S. State Regulations:

California Safe Drinking Water and Toxic Enforcement Act (Prop 65):

This product may contain the following chemicals known to the state of California to cause cancer, birth defects or other reproductive harm: None

Consumer Products VOC Regulations: Not regulated

State Right to Know:

New Jersey: 56-81-5
Pennsylvania: 56-81-5
Massachusetts: 56-81-5
Rhode Island : 56-81-5

Canadian Regulations:

Controlled Products Regulations:

This product has been classified in accordance with the hazard criteria of the Controlled Product Regulation and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Hazard Class: Not hazardous

Canadian DSL Inventory: All ingredients are either listed on the DSL Inventory or are exempt.

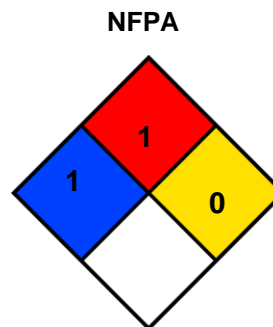
European Union Regulations:

RoHS Compliance: This product is compliant with Directive 2002/95/EC of the European Parliament and of the Council of 27 January 2003. This product does not contain any of the restricted substances as listed in Article 4(1) of the RoHS Directive.

Additional Regulatory Information: None

Section 16: Other Information

| HMIS® (II) | |
|----------------------|----------|
| Health: | 1 |
| Flammability: | 1 |
| Reactivity: | 0 |
| PPE: | B |



Ratings range from 0 (no hazard) to 4 (severe hazard)

Prepared By: Michelle Rudnick
CRC #: 2038SL
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Changes since last revision: MSDS reformatted to meet the requirements of the Canadian Controlled Products Regulations.

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. This information is accurate to the best of CRC Industries' knowledge or obtained from sources believed by CRC to be accurate. Before using any product, read all warnings and

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directions on the label. For further clarification of any information contained on this MSDS consult your supervisor, a health & safety professional, or CRC Industries.

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|-----------|---|--------|--|
| ACGIH: | American Conference of Governmental Industrial Hygienists | NA: | Not Applicable |
| CAS: | Chemical Abstract Service | ND: | Not Determined |
| CFR: | Code of Federal Regulations | NIOSH: | National Institute of Occupational Safety & Health |
| DOT: | Department of Transportation | NFPA: | National Fire Protection Association |
| DSL: | Domestic Substance List | NTP: | National Toxicology Program |
| g/L: | grams per Liter | OSHA: | Occupational Safety and Health Administration |
| HMIS: | Hazardous Materials Identification System | PMCC: | Pensky-Martens Closed Cup |
| IARC: | International Agency for Research on Cancer | PPE: | Personal Protection Equipment |
| IATA: | International Air Transport Association | ppm: | Parts per Million |
| ICAO: | International Civil Aviation Organization | RoHS: | Restriction of Hazardous Substances |
| IMDG: | International Maritime Dangerous Goods | STEL: | Short Term Exposure Limit |
| IMO: | International Maritime Organization | TCC: | Tag Closed Cup |
| lbs./gal: | pounds per gallon | TWA: | Time Weighted Average |
| LC: | Lethal Concentration | WHMIS: | Workplace Hazardous Materials Information System |
| LD: | Lethal Dose | | |