SAFETY DATA SHEET

1. IDENTIFICATION

1.1. PRODUCT IDENTIFIER USED ON LABEL:

1.1.1. ALCO EP-0 GREASE

1.2. OTHER MEANS OF IDENTIFICATION:

1.2.1.30 EP-0 GREASE

1.3. RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE;

1.3.1.POWER EQUIPMENT LUBRICATING GREASE

1.3.2.NO OTHER USES RECOMMENDED

1.4. NAME, ADDRESS, AND TELEPHONE NUMBER OF THE CHEMICAL MANUFACTURE R, IMPORTER, OR OTHER RESPONSIBLE PARTY:

1.4.1.

Spectrum Lubricants Corporation

500 Industrial Park Drive
Selmer, TN 38375-3276
United States of America

Product Information

MSDS Requests: (800) 264-6457 or +17316454972
Technical Information: (800) 264-6457 or +17316454972
General Information: vswedley@spectrumcorporation.com

1.5. EMERGENCY PHONE NUMBER:

1.5.1.

Emergency Response
North America: CHEMTREC (800) 424-9300 after 5:00pm CST Or +17035273887
Health Emergency
USA: (800) 264-6457 or +17316454972

2. HAZARD(S) IDENTIFICATION

2.1. CLASSIFICATION OF THE CHEMICAL IN ACCORDANCE WITH PARAGRAPH (d) of §1910.1200;

2.1.1.

No R/S - phrases associated with components of this product

2.2. Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200

2.2.1.Inhalation: Inhalation of fumes may result in dizziness, headache and respiratory irritation.

2.2.2.Eye Contact: Contact with eyes may cause minimal irritation.

2.2.3.Skin Contact: Mild irritation may occur with prolonged or repeated contact.

2.3. Hazards not otherwise classified that have been identified during the classification process;

2.3.1.When mists/aerosols can occur, the following are recommended: 5 mg/m3 – ACGIH TLV, 10mg/m3 – ACGIH STEL, 5 mg/m3 – OSHA PEL

2.3.2.Chronic Effects: Ingredients of this product are not listed as potential carcinogens in N.T.P. Annual Report on Carcinogens, I.A.R.C. Monographs, or by O.S.H.A. HCS (g) (2) (vii).

3. Composition/ information on ingredients

3.1. The chemical name and concentration (exact percentage) or concentration ranges of all ingredients which are classified as health hazards in accordance with paragraph (d) of §1910.1200

3.1.1.

COMPONENT	CAS NUMBER	EU NUMBER	WEIGHT %	R-PHRASE
Petroleum Oil	64742-52-5	265-155-0	90 - 96	*
Lithium 12-Hydroxystearate	7620-77-1	231-536-5	2 – 6	**
Lithium borate	12007-60-2	234-514-3	< 1	**
Zinc dithiophosphate	68649-42-3	272-028-3	< 1	**
Lithium naphthenate Fatty acid derivative of	27939-69-1	NA	< 1	Not available for this substance.

- * (Note L) The classification as a carcinogen need not apply the substance contains less than 3 %DMSO extract as measured by IP 346
- ** This substance is not listed in a priority list (as foreseen under Council Regulation (EEC) No 793/93 on the evaluation and control of the risks of existing substances.).

4. FIRST AID MEASURES

4.1.

Skin:	Wash skin with soap and warm water. Wash clothing before re-use.
Eye:	Immediately flush with large quantities of cool water for at least 15 minutes. Get medical attention.
Inhalation:	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.
Ingestion:	If ingested, do not induce vomiting. Call a physician.
Notes to Physician:	High pressure injection under the skin may have serious consequences and may require urgent treatment.

5. FIRE FIGHTING MEASURES

5.1. **PROTECTION OF FIRE FIGHTERS:**

5.1.1. **Fire Fighting Instructions:**

5.1.2. For fires involving this material, evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers or drinking water supply. Fire fighters should use self-contained breathing apparatus (SCBA) to fight fires. Use water spray to cool fire exposed surfaces and to protect personnel.

5.2. **Extinguishing Media:**

5.2.1. **Appropriate Extinguishing Media**: Water Spray (fog), dry chemical, foam, halon, or carbon dioxide.

5.2.2. **Inappropriate Extinguishing Media:** Water stream may splash burning liquid and spread fire .

5.3. **Special Firefighting Procedures:**

5.3.1. Cool exposed containers with water spray.

5.4. **Unusual Fire and Explosion Hazards:**

5.4.1. Pressure increase in over heated closed containers. Cool containers with water spray.

5.5. **Hazardous Combustion Products**: Smoke, Fume, Sulfur oxides, oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

6.1. NOTIFICATION PROCEDURE

6.1.1. Contain any spills with absorbents to prevent migrations and entry into sewers or streams. Take up small spills with dry chemical absorbent. Large spills may be taken up with pump or vacuum and finished off with dry chemical absorbent. May require excavation of contaminated soil.

6.2. SPILL MANAGEMENT

6.2.1. Land Spill: Contain any spills with absorbents to prevent migrations and entry into sewers or streams. Take up small spills with dry chemical absorbent. Large spills may be taken up with pump or vacuum and finished off with dry chemical absorbent. May require excavation of contaminated soil.

6.2.2. **Water Spill:** Confine the spill immediately with booms. Stop leak, if you can do so without risking personal safety. Report spills as required to appropriate authorities. Remove from the surface by skimming or with suitable absorbents.

6.3. ENVIRONMENTAL PRECAUTIONS

6.3.1. Large spills should be diked for later recovery or disposal. Spills may be taken up with pump or vacuum and finished off with dry chemical absorbent. May require excavation of contaminated soil. To the best of Royal Manufacturing Company, LP knowledge, this product is not regulated by CERCLA/RCRA as a hazardous waste or material. However, this product has not been tested for the toxicity characteristic via the Toxicity Characteristic Leaching Procedure. Therefore, it may be disposed of as an industrial waste in a manner acceptable to good waste management practice and in compliance with applicable local, state, and federal regulations.Spill Procedures:

7. HANDLING AND STORAGE

7.1. HANDLING

7.1.1. Avoid contact with skin. Prevent spills and leaks to avoid slipping hazards.

7.2. STORAGE

7.2.1. Keep containers sealed until ready for use. Avoid excessive long-term storage temperatures to prolong shelf life. Maximum storage temperature: 120F. Store in well ventilated areas.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1. EXPOSURE LIMIT:

8.1.1. When mists/aerosols can occur, the following are recommended: 5 mg/m3 – ACGIH TLV, 10mg/m3 – ACGIH STEL, 5 mg/m3 – OSHA PEL

8.2. ENGINEERING CONTROLS

8.2.1. The level pf protection and types of control necessary will vary depending upon potential exposure conditions. Under normal conditions, no special control required when used in a well-ventilated area with local exhaust ventilation.

8.3. PERSONAL PROTECTION

8.3.1. Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

8.3.1.1. **Respiratory Protection:** None required in normal use. Use only NIOSH/MSHA Organic vapor approved equipment if necessary.

8.3.1.2. **Hand Protection:** Chemical resistant gloves are recommended. No protection is required in normal use.

8.3.1.3. **Eye Protection:** Goggles or safety glasses with side shields are recommended.

8.3.1.4. Skin and Body Protection: Chemical / oil resistant clothing if contact with material is likely. NO skin protection is ordinarily required under normal conditions of use.

8.3.1.5. **Special Hygiene Measures:** Practice good personal hygiene. Wash hands after use and handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1.

Physical State:	Smooth Semi-Fluid Grease
Color:	Green
Odor:	Slight Petroleum Odor
Odor Threshold:	None
Relative Density (at 15 C)	0.89
Flashpoint (Cleveland Open Cup):	450F (232C)
Flammable Limits (Approximate volume% in Air):	LEL: NA UEL: NA
Autoignition Temperature:	NA
Boiling Point / Range:	NE
Vapor Density (Air = 1):	< 1 mm
Vapor Pressure, mmHg at 25C:	< 1 mm
Evaporation Rate (n-butyl acetate = 1):	NE
pH	NE
Log Pow (n-Octanol/Water Partition Coefficient):	NE
Solubility in Water	Slight
Viscosity:	NE
Oxidizing Properties:	See Section 3, 15, 16.
DMSO Extract (mineral oil only), IP-346:	NE

10.STABILITY AND REACTIVITY

10.1. **Stability:**
10.1.1. Stable
10.2. **Incompatibility:**
10.2.1. Avoid strong oxidants
10.3. **Polymerization:**
10.3.1. Will not occur
10.4. **Thermal Decomposition:**
10.4.1. Partial burning produces fumes, smoke and carbon monoxide

11. TOXICOLOGY INFORMATION

11.1. ACUTE TOXICITY
11.1.1. Product or Ingredients:
11.1.1.1. No data is specifically available for this product and therefore this toxicological information is based on data available for the ingredients.
11.2. Routes of Exposure:
11.2.1. Exposure will most likely occur through skin contact or form inhalation of mechanically or thermally generated oil mists.
11.2.1.1. Skin and Eye:
11.2.1.1.1. This product is not a primary skin irritant after exposure of short duration, is not a skin sensitizer and is not irritating to the eyes. .

11.3. CHRONIC/OTHER EFFECTS
11.3.1. Prolonged and repeated contact with skin can cause defatting and drying of the skin resulting in skin irritation and dermatitis. Long term intensive exposure to oil mist may cause benign lung fibrosis. The following ingredients are cited on the lists below: None
11.3.2. NTP CARC, NTP SUS, IARC 1, IARC 2A, IARC 2B, OSHA CARC

11.4. This material is not known to contain any chemical listed as a carcinogen or suspected carcinogen by OSHA Hazard Communication Standard 29CFR 1910.1200, IARC, or the National Toxicology Program (NTP) at a concentration greater than 0.1%.

12.ECOLOGICAL INFORMATION

12.1.1. ECOTOXICITY
12.1.1.1. Material – Not expected to be harmful to aquatic organisms.
12.1.2. MOBILITY
12.1.2.1. Base oil component – Low solubility and float and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.
12.1.3. PERSISTENCE AND DEGRADABILITY
12.1.3.1. **Biodegradation: Base oil component – Expected to be inherently biodegradable**.

13. DISPOSAL CONSIDERATIONS

13.1. **Waste Disposal**:

13.1.1. Assure conformity with applicable disposal regulations. Dispose of absorbed material at approved waste site.

13.2. DISPOSAL RECOMMENDATIONS

13.2.1. Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products

13.3. REGULATORY DISPOSAL INFORMATION

13.3.1. To the best of Royal Manufacturing Company, LP knowledge, this product is not regulated by CERCLA/RCRA as a hazardous waste or material. However, this product has not been tested for the toxicity characteristic via the Toxicity Characteristic Leaching Procedure.

13.4. Empty Container Warning:

13.4.1. Do not attempt to refill or clean containers since residue is difficult to remove. Empty drums should be completely drained, properly bunged and returned to a drum re-conditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations

14.TRANSPORTATION INFORMATION

The shipping description below may not represent requirements for all modes of transportation, shipping methods or locations outside of the United States.

14.1. ROAD AND RAIL

14.1.1. DOT: NOT REGULATED

14.2. VESSEL

14.2.1. IMDG: NOT REGULATED

14.3. AIR

14.3.1. IATA: NOT REGULATED

15.REGULATORY INFORMATION

15.1. OSHA Hazard Communication Standard:

15.1.1. When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

15.2. WHMIS:

15.2.1. Not a controlled product

15.3. Chemical Inventory Listing:

15.3.1. TSCA, CEPA

15.4. EPCRA:

15.4.1. This material contains no extremely hazardous substances.

15.5. SARA (311/312) Reportable Hazard Categories:

15.5.1. None

15.6. SARA (313) Toxic Release Inventory:

15.6.1. This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program

15.7. TSCA:

15.7.1. This material is in compliance with the Toxic Substances Control Act (15USC2601-2629)

15.8. CEPA:

15.8.1. All components of this product are either on the Domestic Substance List (DSL) or are exempted. New

15.9. Jersey Right-to-Know Label

15.9.1. Power Equipment Lubricating Grease

16.OTHER INFORMATION

NE = Not Established, ND = Not Determined, NA = Not Applicable

Risk Phrases:

R37	**Inhalation:**	Excessive exposure may result in respiratory irritation
R36	**Eye Contact:**	Excessive exposure may result in eye irritation
R38	**Skin Contact:**	Excessive exposure may result in skin irritation

HAZARD RANKINGS			
HMIS		NFPA	
HEALTH HAZARD	1	HEALTH HAZARD	1
FIRE HAZARD	1	FIRE HAZARD	1
PHYSICAL HAZARD	0	INSTABILITY/REACTIVITY	0
PERSONAL PROTECTION	B		

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MANUFACTURER DISCLAIMER:

The data presented herein is based upon tests and information, which we believe to be reliable. However, users should make their own investigations to determine the suitability of the information for their particular purpose