1. Product and Company Identification

Material name: Molylube Extreme Pressure Grease AC 0
Product Code: 23200
Version #: 1.1
Revision date: 11-05-2011
Synonym(s): Molylube 126 EP Grease
Manufacturer information: Bel-Ray Company, Inc.
P.O. Box 526
Farmingdale, NJ 07727
United States of America
+1 732 938 2421
CHEMTREC: +1 703-527-3887 (outside USA)
CHEMTREC: 800-424-9300 (USA)

2. Hazards Identification

Emergency overview: Harmful in contact with eyes. Prolonged exposure may cause chronic effects.
OSHA regulatory status: This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects:

- **Routes of exposure**
  - Inhalation
  - Ingestion
  - Skin contact
  - Eye contact

- **Eyes**
  - Eye contact may result in corneal injury. Contact may irritate or burn eyes. Do not get this material in contact with eyes.

- **Skin**
  - Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis. Avoid contact with the skin.

- **Inhalation**
  - Avoid breathing dust/fume/gas/mist/vapors/spray.

- **Ingestion**
  - Components of the product may be absorbed into the body by ingestion. Do not ingest.

- **Target organs**
  - Eyes. RESPIRATORY SYSTEM. Skin.

- **Chronic effects**
  - Conjunctiva. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

- **Signs and symptoms**

- **Potential environmental effects**
  - May cause long-term adverse effects in the environment.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), Hydrotreated Heavy Naphthenic</td>
<td>64742-52-5</td>
<td>0 - 100</td>
</tr>
<tr>
<td>Distillates (petroleum), Hydrotreated Heavy Paraffinic</td>
<td>64742-54-7</td>
<td>0 - 100</td>
</tr>
<tr>
<td>Distillates (petroleum), Solvent-refined Heavy Paraffinic</td>
<td>64741-88-4</td>
<td>0 - 100</td>
</tr>
<tr>
<td>Residual Oils (petroleum), Solvent-refined</td>
<td>64742-01-4</td>
<td>0 - 100</td>
</tr>
<tr>
<td>White Mineral Oil (petroleum)</td>
<td>8042-47-5</td>
<td>0 - 100</td>
</tr>
<tr>
<td>Aluminum, (benzoato-o,o)hydroxy(octadecanoato-o,o)-</td>
<td>54326-11-3</td>
<td>2.5 - 10</td>
</tr>
<tr>
<td>Molybdenum Disulfide</td>
<td>1317-33-5</td>
<td>1 - 2.5</td>
</tr>
<tr>
<td>Other components below reportable levels</td>
<td></td>
<td>2.5 - 10</td>
</tr>
</tbody>
</table>

4. First Aid Measures

**First aid procedures**

- **Eye contact**
  - Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

- **Skin contact**
  - Wash off with warm water and soap. Get medical attention if irritation develops and persists.
### Inhalation
If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.

### Ingestion
Rinse mouth thoroughly. Do not induce vomiting. If ingestion of a large amount does occur, call a poison control center immediately. Never give liquid to an unconscious person.

### Notes to physician
Symptoms may be delayed.

### General advice
Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 5. Fire Fighting Measures

#### Flammable properties
Not flammable by OSHA criteria. Not combustible by OSHA criteria.

#### Extinguishing media

#### Unsuitable extinguishing media
Water. Do not use water jet as an extinguisher, as this will spread the fire.

#### Protection of firefighters
Wear suitable protective equipment.

#### Fire fighting equipment/instructions
Move containers from fire area if you can do so without risk.

#### Hazardous combustion products
Carbon monoxide and carbon dioxide.

### 6. Accidental Release Measures

#### Personal precautions
Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep upwind. Keep out of low areas.

#### Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not contaminate water.

#### Methods for containment
ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use water spray to reduce vapors or divert vapor cloud drift. Prevent entry into waterways, sewer, basements or confined areas.

#### Methods for cleaning up
Should not be released into the environment. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.

### 7. Handling and Storage

#### Handling
DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure. Avoid release to the environment.

#### Storage
Class III B Combustible Liquid.

8. Exposure Controls / Personal Protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>ACGI H Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), Hydrotreated Heavy Naphthenic (64742-52-5)</td>
<td>TWA</td>
<td>5 mg/m3</td>
<td>Inhalable Fraction.</td>
</tr>
</tbody>
</table>

**US. ACGIH Threshold Limit Values Components**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o o) (54326-11-3)</td>
<td>TWA</td>
<td>1 mg/m3</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td>White Mineral Oil (petroleum) (8042-47-5)</td>
<td>TWA</td>
<td>5 mg/m3</td>
<td>Inhalable fraction.</td>
</tr>
</tbody>
</table>

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distillates (petroleum), Hydrotreated Heavy Paraffinic (64742-54-7)</td>
<td>PEL</td>
<td>5 mg/m3</td>
<td>Mist.</td>
</tr>
<tr>
<td>Distillates (petroleum), Solvent-refined Heavy Paraffinic (64741-88-4)</td>
<td>PEL</td>
<td>5 mg/m3</td>
<td>Mist.</td>
</tr>
<tr>
<td>Residual Oils (petroleum), Solvent-refined (64742-01-4)</td>
<td>PEL</td>
<td>5 mg/m3</td>
<td>Mist.</td>
</tr>
<tr>
<td>White Mineral Oil (petroleum) (8042-47-5)</td>
<td>PEL</td>
<td>5 mg/m3</td>
<td>Mist.</td>
</tr>
</tbody>
</table>

Exposure guidelines

Occupational Exposure Limits are not relevant to the current physical form of the product.

Personal protective equipment

- **Eye / face protection**: Do not get in eyes. Chemical goggles are recommended. Eye wash fountain is recommended.
- **Skin protection**: Wear appropriate chemical resistant clothing. Chemical resistant gloves.
- **Respiratory protection**: No personal respiratory protective equipment normally required.
- **General hygiene considerations**: Do not get in eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
<td>Gel.</td>
</tr>
<tr>
<td><strong>Form</strong></td>
<td>Grease</td>
</tr>
<tr>
<td><strong>Color</strong></td>
<td>Black.</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>Petroleum</td>
</tr>
<tr>
<td><strong>Odor threshold</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Vapor pressure</strong></td>
<td>0 hPa estimated</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>880 kg/m³</td>
</tr>
<tr>
<td><strong>Vapor density</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>Boiling point</strong></td>
<td>649.4 °F (343 °C) estimated (Base Oil)</td>
</tr>
<tr>
<td><strong>Solubility (water)</strong></td>
<td>Negligible</td>
</tr>
<tr>
<td><strong>Solubility (other)</strong></td>
<td>Oil</td>
</tr>
<tr>
<td><strong>Specific gravity</strong></td>
<td>0.88</td>
</tr>
</tbody>
</table>
Relative density: Not available.

Flash point: 417.2 °F (214 °C) Pensky-Martens Closed Cup (Base Oil)

Flammability limits in air, upper, % by volume: Not available.

Flammability limits in air, lower, % by volume: Not available.

Auto-ignition temperature: 500 °F (260 °C) estimated (Base Oil)

VOC: 0.03 % estimated

Viscosity: 150 cSt (Base Oil)

Percent volatile: 0.03 % estimated

Other data:
- Drop point: 458.6 °F (237 °C)
- Flammability class: Combustible IIIB estimated
- Flash point class: Combustible IIIB
- Viscosity temperature: 104 °F (40 °C)

10. Chemical Stability & Reactivity Information

Chemical stability: Material is stable under normal conditions.

Conditions to avoid: Heat, flames and sparks. Avoid temperatures exceeding the flash point.

Incompatible materials: Not available.

Hazardous decomposition products: No hazardous decomposition products are known. At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

11. Toxicological Information

Local effects: Components of the product may be absorbed into the body through the skin. Contact may irritate or burn eyes.

Chronic effects: Hazardous by OSHA criteria. Prolonged exposure may cause chronic effects.

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

ACGIH Carcinogens:
- Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )-ALUMINUM METAL AND INSOLUBLE COMPOUNDS, RESPIRABLE FRACTION (CAS 54326-11-3) A4 Not classifiable as a human carcinogen.
- Distillates (petroleum), Hydrotreated Heavy Naphthenic MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE FRACTION (CAS 64742-52-5) A4 Not classifiable as a human carcinogen.
- Distillates (petroleum), Solvent-refined Heavy Paraffinic MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE FRACTION (CAS 64741-88-4) A4 Not classifiable as a human carcinogen.
- White Mineral Oil (petroleum) MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE FRACTION (CAS 8042-47-5) A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity:
- MINERAL OILS, HIGHLY-REFINED (CAS 8042-47-5) 3 Not classifiable as to carcinogenicity to humans.

12. Ecological Information

Ecotoxicological data

<table>
<thead>
<tr>
<th>Product</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molylube Extreme Pressure Grease AC 0 (Mixture)</td>
<td>EC50 Daphnia: 72444.45 mg/l 48 hours estimated</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

Ecotoxicity: Contains a substance which causes risk of hazardous effects to the environment.

Environmental effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
13. Disposal Considerations

Disposal instructions
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

DOT
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.

IMDG
Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
One or more components are not listed on TSCA.

CERCLA (Superfund) reportable quantity
None

Superfund Amendments and Reauthorization Act of 1986 (SARA)
Hazard categories
Immediate Hazard - Yes
Delayed Hazard - Yes
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance
No

Section 311 hazardous chemical
Yes

Clean Water Act (CWA)
Hazardous substance

State regulations
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

US - New Jersey RTK - Substances: Listed substance
Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5) Listed.
Distillates (petroleum), Hydrotreated Heavy Paraffinic (CAS 64742-54-7) Listed.
Distillates (petroleum), Solvent-refined Heavy Paraffinic (CAS 64741-88-4) Listed.
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4) Listed.

US - Pennsylvania RTK - Hazardous Substances: Listed substance
Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5) Listed.
Distillates (petroleum), Hydrotreated Heavy Paraffinic (CAS 64742-54-7) Listed.
Residual Oils (petroleum), Solvent-refined (CAS 64742-01-4) Listed.
White Mineral Oil (petroleum) (CAS 8042-47-5) Listed.
16. Other Information

Further information
HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings
Health: 1*
Flammability: 1
Physical hazard: 0

NFPA ratings
Health: 1
Flammability: 1
Instability: 0

Disclaimer
Bel-Ray Company cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user’s responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use.

Issue date
11-05-2011

This data sheet contains changes from the previous version in section(s):
This document has undergone significant changes and should be reviewed in its entirety.