### MATERIAL SAFETY DATA SHEET

## 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 0 Manufacturer information Bel-Ray Company, Inc.

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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 Corneal damage. Conjunctivitis. Defatting of the skin. Skin irritation. Rash.

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

effects

# 3. Composition / Information on Ingredients

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

#### 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.

Material name: Molylube Extreme Pressure Grease AC 0 MSDS US 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.

Rinse mouth thoroughly. Do not induce vomiting. If ingestion of a large amount does occur, call a Ingestion

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

Suitable extinguishing

media

Water fog. Foam. Dry powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

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

**Protection of firefighters** 

**Protective equipment** and precautions for firefighters

Wear suitable protective equipment.

Fire fighting

equipment/instructions

**Hazardous combustion** 

products

Move containers from fire area if you can do so without risk.

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 IIIB Combustible Liquid.

> Keep away from heat, sparks and open flame. Store in a well-ventilated place. Keep container tightly closed. Keep away from food, drink and animal feedingstuffs. Keep out of the reach of

children. Use care in handling/storage.

# 8. Exposure Controls / Personal Protection

### Occupational exposure limits

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Components	Туре	Value	Form
Distillates (petroleum), Hydrotreated Heavy Naphthenic (64742-52-5)	TWA	5 mg/m3	Inhalable Fraction.
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	Form
Aluminum, (benzoato-o,o )hydroxy(octadecanoato-o,o )- (54326-11-3)	TWA	1 mg/m3	Respirable fraction.
White Mineral Oil (petroleum) (8042-47-5)	TWA	5 mg/m3	Inhalable fraction.
US. OSHA Table Z-1 Limits for Air	r Contaminants (29 CFR 19	10.1000)	
Components	Туре	Value	Form
Distillates (petroleum), Hydrotreated Heavy Naphthenic (64742-52-5)	PEL	5 mg/m3	Mist.
		2000 mg/m3	
		500 ppm	
Distillates (petroleum), Hydrotreated Heavy Paraffinic (64742-54-7)	PEL	5 mg/m3	Mist.
Distillates (petroleum), Solvent-refined Heavy Paraffinic (64741-88-4)	PEL	5 mg/m3	Mist.
		2000 mg/m3	
		500 ppm	
Residual Oils (petroleum), Solvent-refined (64742-01-4)	PEL	5 mg/m3	Mist.
White Mineral Oil	PEL	5 mg/m3	Mist.

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

Personal protective equipment

(petroleum) (8042-47-5)

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 Do not get in eyes. Avoid contact with skin. Keep away from food and drink. Handle in accordance considerations

with good industrial hygiene and safety practice.

# 9. Physical & Chemical Properties

Gel. **Appearance Form** Grease Color Black. Odor Petroleum **Odor threshold** Not available. pН Not available. 0 hPa estimated Vapor pressure Density 880 kg/m<sup>3</sup> Vapor density Not available.

649.4 °F (343 °C) estimated (Base Oil) **Boiling point** 

Solubility (water) Negligible Solubility (other) Oil 0.88 Specific gravity

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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

458.6 °F (237 °C) **Drop point** 

Flammability class Combustible IIIB estimated

Combustible IIIB Flash point class 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

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

products

# 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 )- A4 Not classifiable as a human carcinogen.

ALUMINUM METAL AND INSOLUBLE COMPOUNDS,

RESPIRABLE FRACTION (CAS 54326-11-3)

Distillates (petroleum), Hydrotreated Heavy Naphthenic A4 Not classifiable as a human carcinogen.

MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE

FRACTION (CAS 64742-52-5)

Distillates (petroleum), Solvent-refined Heavy Paraffinic A4 Not classifiable as a human carcinogen.

MINERAL OIL, EXCLUDING METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY REFINED, INHALABLE

FRACTION (CAS 64741-88-4)

White Mineral Oil (petroleum) MINERAL OIL, EXCLUDING A4 Not classifiable as a human carcinogen.

METAL WORKING FLUIDS, PURE, HIGHLY AND SEVERELY

REFINED, INHALABLE FRACTION (CAS 8042-47-5)

#### 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

**Product Test Results** 

Molylube Extreme Pressure Grease AC 0 (Mixture) EC50 Daphnia: 72444.45 mg/l 48 hours estimated

**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

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<sup>\*</sup> Estimates for product may be based on additional component data not shown.

Persistence and degradability

Not available.

### 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

Yes

chemical

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 Listed.

(CAS 64742-52-5)

Distillates (petroleum), Hydrotreated Heavy Paraffinic Listed.

(CAS 64742-54-7)

Distillates (petroleum), Solvent-refined Heavy Paraffinic Listed.

(CAS 64741-88-4)

Residual Oils (petroleum), Solvent-refined (CAS Listed.

64742-01-4)

#### US - Pennsylvania RTK - Hazardous Substances: Listed substance

Distillates (petroleum), Hydrotreated Heavy Naphthenic Listed.

(CAS 64742-52-5)

Distillates (petroleum), Hydrotreated Heavy Paraffinic Listed.

(CAS 64742-54-7)

Residual Oils (petroleum), Solvent-refined (CAS Listed.

64742-01-4)

White Mineral Oil (petroleum) (CAS 8042-47-5) Listed.

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### 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.

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