



## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**PRODUCT NAME:** MINERAL OIL SERIES REFRIGERATION LUBRICANT

**OTHER/GENERIC NAMES:** MINERAL OIL LUBRICANT; REFRIGERANT OIL

**PRODUCT USE:** Refrigeration Compressor Lubricant

**EXIM TRADING LLC** 12601 NW 115<sup>TH</sup> Ave, Unit 111A, Medley, FL, 33178  
☎ (305) 884 7882 📠 (305) 884 7883

#### FOR EMERGENCY

Medical: 1-800-498-5701  
Transportation: Chemtrec 1-800-424-9300  
OUTSIDE UNITED STATES, CALL COLLECT 1-352-323-3500

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Description** This product does not contain any substances classified as hazardous to health

Component Name	CAS Number	% (w/w)	OSHA PEL	ACGIH TLV
Mineral Oil	8042-47-5	95-100%	No PEL established	No TL established

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW:

**COLOR:** Clear to yellow liquid

**PHYSICAL FORM:** Liquid

**ODOR:** Odorless

**PRIMARY ROUTE OF EXPOSURE:** Skin

**MAJOR HEALTH HAZARDS:** MAY BE HARMFUL IF SWALLOWED. INHALATION OR INGESTION MAY CAUSE MUCOUS MEMBRANE IRRITATION. EXCESSIVE INHALATION EXPOSURE MAY CAUSE IRRITATION OF RESPIRATORY PASSAGES.

**PRECAUTIONARY STATEMENTS:** Do not breathe vapor or mist. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Keep container tightly closed. Wash thoroughly after handling. Use only with adequate ventilation.



**POTENTIAL HEALTH EFFECTS:**

**Routes of Exposure**

- EYE CONTACT:** Expected to cause no more than minor eye irritation. Avoid eye contact as good industrial practice.
- SKIN CONTACT:** Not a primary skin irritant but may cause skin irritation on repeated or prolonged contact.
- INHALATION:** Avoid breathing vapor or mist. Under normal use conditions, this product is not an inhalation hazard. Shortness of breath and cough are the most common symptoms. Aspiration may lead to chemical pneumonitis which is characterized by pulmonary edema and hemorrhage, and may be fatal. Signs of lung involvement include increased respiration rate, increased heart rate, and a bluish discoloration of the skin. Coughing, choking, and gagging are often noted at the time of aspiration. Gastrointestinal discomfort may develop, followed by vomiting, with a further risk of aspiration.
- INGESTION:** May cause nausea. Not expected to be acutely toxic by ingestion. In humans, irritation of the mouth, pharynx, esophagus and stomach can develop following ingestion of this product.
- OTHER:** Not listed by ACGIH, IARC, NIOSH, NTP or OSHA.

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**4. FIRST AID MEASURES**

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- Skin contact** Remove contaminated clothing and wash affected areas thoroughly with soap and water. Wash contaminated clothing before reuse. If redness, itching, or a burning sensation develops, get medical attention. If material is hot, submerge injured area in cold water. If patient is severely burned, remove to a hospital immediately.
- Eye contact** Flush with clean, lukewarm water (low pressure) occasionally lifting eyelids for at least 15 minutes. If redness, itching, or a burning sensation develops, have eyes examined and treated by medical personnel. If material is hot, treat for thermal burns and take patient to hospital immediately.
- Inhalation** Avoid breathing oil mists. Remove to fresh air. Give artificial respiration if not breathing. Oxygen may be given by qualified personnel if breathing is difficult. Get medical attention.
- Ingestion** DO NOT INDUCE VOMITING. Fluid May act as laxative. Give 1 – 3 glasses of water or milk to drink and refer to medical personnel. Never give anything by mouth to an unconscious person.

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**5. FIRE FIGHTING MEASURES**

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- EXTINGUISHING MEDIA:** For small fires: Carbon dioxide (CO<sub>2</sub>) Dry chemical, Foam, Water spray. Water may be ineffective but can be used to cool containers exposed to heat or flame. Water runoff can cause environmental damage. Dike and collect water used to fight fire.
- FIRE HAZARDS:** LOW FIRE HAZARD - Do not cut, drill, or weld empty containers. Water or foam may cause frothing.
- PROTECTIVE EQUIPMENT:** A self contained breathing apparatus and suitable protective clothing must be worn in fire conditions.
- UNUSUAL OR EXPLOSIVE HAZARDS:** None

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### 6. ACCIDENTAL RELEASE MEASURES

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- PERSONAL PRECAUTIONS:** Ensure adequate ventilation of the working area.
- ENVIRONMENTAL PRECAUTIONS:** Dense smoke may be generated while burning. Carbon monoxide, carbon dioxide and other oxides may be generated as products of combustion. Do not allow product to enter drains. Prevent further spillage if safe.
- CLEAN UP METHOD:** Absorb with inert, absorbent material and shovel into a chemical waste container. Transfer to suitable, labeled containers for disposal. Clean spillage area thoroughly with plenty of water containing detergent and flush to a sewer serviced by a permitted wastewater treatment facility.

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### 7. HANDLING AND STORAGE

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**NORMAL HANDLING:** (Always wear recommended personal protective equipment)  
Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Adopt best Manual Handling considerations when handling, carrying and dispensing.

**STORAGE RECOMMENDATIONS:**  
Keep containers tightly closed and away from heat, sparks, open flame, or oxidizing materials. Store in correctly labeled containers. Store at a maximum temperature of 40°C. Flammable and combustible liquids.

**WASTE DISPOSAL METHODS:**  
This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. 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. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**ENGINEERING MEASURES:** Ensure adequate ventilation of the working area.

**OCCUPATIONAL EXPOSURE CONTROLS:** Keep away from food, drink and animal feed.

**RESPIRATORY PROTECTION:** Airborne concentrations should be kept to lowest levels possible. If vapor, dust or mist is generated and the occupational exposure limit of the product, or any component of the product, is exceeded, use appropriate NIOSH or MSHA approved air purifying or air-supplied respirator after determining the airborne concentration of the contaminant. Air supplied respirators should always be worn when airborne concentration of the contaminant or oxygen content is unknown.

**SKIN/HAND PROTECTION:** Launder or dry-clean when soiled. Gloves and boots resistant to chemicals and petroleum distillates required. Exposed workers should wash exposed skin several times daily with soap and water.

**EYE PROTECTION:** Normally none required, chemical goggles if splashing is likely or high pressure systems are used.

**VENTILATION:** Local exhaust ventilation recommended if generating vapor, dust, or mist. If exhaust ventilation is not available or inadequate, use MSHA or MIOSH approved respirator as appropriate.

**EXPOSURE LIMITS:** None established for product.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

	MinOil-32	MinOil -46	MinOil -68	MinOil -100
<b>DESCRIPTION:</b>	Liquid			
<b>COLOR:</b>	Clear to yellow liquid			
<b>ODOR:</b>	Odorless			
<b>VAPOR PRESSURE:</b>	<0.1 kPa (@ 20°C)			
<b>VAPOR DENSITY: (AIR=1)</b>	> Air			
<b>VISCOSITY: cSt @ 40°C</b>	34.7	48.1	68.9	99.5
<b>VISCOSITY: cSt @ 100°C</b>	162.7	224	320	461
<b>SOLUBILITY IN WATER:</b>	Insoluble in cold water. Soluble in hydrocarbons.			
<b>pH:</b>	Not applicable			
<b>MELTING/FREEZING POING:</b>	Not determined			
<b>BOILING POINT:</b>	393°C / 740°F			
<b>SPECIFIC GRAVITY (H<sub>2</sub>O=1)</b>	0.84			
<b>FLASH POINT:</b>	196°C	211°F	234°F	252°F
<b>AUTO IGNITION TEMP.:</b>	NA			



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## 10. STABILITY AND REACTIVITY

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<b>STABILITY:</b>	Stable under normal conditions.
<b>INCOMPATIBILITY:</b>	May react with strong oxidizing materials
<b>HAZARDOUS POLYMERIZATION</b>	Will not occur
<b>MATERIALS TO AVOID:</b>	Strong oxidizing agents.
<b>DECOMPOSITION PRODUCTS:</b>	Analogous compounds evolve, carbon monoxide, carbon dioxide, and other undefined fragments.

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## 11. TOXICOLOGICAL INFORMATION

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<b>Routes of Entry:</b>	Absorbed through skin. Eye contact.
<b>Toxicity to Animals:</b>	LD <sub>50</sub> : Not available. LC <sub>50</sub> : Not available.
<b>Chronic Effects on Humans:</b>	CARCINOGENIC EFFECTS: 3 (Not classifiable for human.) by IARC.
<b>Other Toxic Effects on Humans:</b>	Slightly hazardous in case of ingestion. Non-irritant for skin. Non-hazardous in case of inhalation.

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## 12. ECOLOGICAL / ENVIRONMENTAL INFORMATION

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<b>Ecotoxicity:</b>	Not available.
<b>BOD5 and COD:</b>	Not available.
<b>Products of Biodegradation:</b>	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
<b>Toxicity of the Products of Biodegradation:</b>	Not available.
<b>Special Remarks on the Products of Biodegradation:</b>	Not available.

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## 13. DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL METHOD:** This product has been evaluated for RCRA characteristics and does not meet the criteria of a hazardous waste if discarded in its purchased form. 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. This is because product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous. Dispose of in compliance with all local and national regulations.

**CONTAINER DISPOSAL** Empty container retains product residue. Observe all hazard precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residues from container and puncture or otherwise destroy empty container before disposal.



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**14. TRANSPORT INFORMATION**

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**DOT:** Not regulated according to DOT.  
**IMDG:** Not regulated according to IMDG.  
**ICAO/IATA:** Not regulated according to ICAO/IATA.  
**TDG:** Not regulated according to TDG.  
**PRODUCT LABEL:** Alkylbenzene 200

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**15. REGULATORY INFORMATION**

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**Federal and State Regulations:** TSCA 8(b) inventory: Mineral oil  
**Other Regulations:** EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.  
**Other Classifications:** WHMIS (Canada): Not controlled under WHMIS (Canada).  
**DSCL (EEC):** This product is not classified according to the EU regulations. Not applicable.

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**16. OTHER INFORMATION**

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	<b>Health Hazard</b>	<b>Flammability</b>	<b>Physical Hazard</b>	<b>Instability</b>
<b>HMIS Classification</b>	1	1	0	

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