

**SUNISO® 4GS Refrigeration Oil**

Revision Date: 05/02/2017 Version: 8 Issue Date: 5/2/2017

Sonneborn, LLC urges the recipient of this Safety Data Sheet to study it carefully to become aware of hazards, if any, of the product involved. In the interest of safety you should (1) notify your employees, agents and contractors of the information of this sheet, (2) furnish a copy to each of your customers for the product and (3) request your customers to inform their employees and customers as well.

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

**Identification of the substance or preparation**

Lubricating Oil

**Use of substance/preparation:**

This material is a severely refined naphthenic refrigeration system lubricant.

**Company identification**

Sonneborn, LLC  
600 Parsippany Road, Suite 100  
Parsippany, NJ 07054 USA

**Emergency telephone number**

Chemtrec (24hrs): 800-424-9300  
Sonneborn: 724-756-2210

**2. HAZARDS IDENTIFICATION**

GHS Classification :Not classified as dangerous under OSHA/GHS-criteria

Human Health Hazards :None

Physico-chemical and environmental hazards and effects: None

**HMIS RATING USA**

Health: 1	Flammability: 1	Reactivity: 0	PPI: -
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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

INGREDIENT	% BY WEIGHT	CAS #	HAZARD	DANGER SYMBOL(S)
Distillates (Petroleum) hydrotreated heavy naphthenic	100	64742-52-5		

EC No. 265-155-0

REACH Registration No. 01-2119467170-45-0012

This is not a dangerous substance, if swallowed, do not induce vomiting.

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**4. FIRST AID MEASURES**

**Swallowing**

Do not induce vomiting. Obtain medical attention immediately. This is not a toxic substance.

**Inhalation**

Obtain medical attention. Oxygen may be given by qualified personnel if breathing is difficult or cyanosis (blue discoloration of skin) is noted. Give artificial respiration if not breathing. Remove to fresh air if aerosol spray is inhaled. Aspiration may cause pulmonary edema or aspiration pneumonia. Exposed persons should be kept under medical observation for at least 48 hours because delayed effects may occur.

**Skin**

No emergency care anticipated. Wash skin with soap and water.

**Eye contact**

Flush eyes thoroughly with water for several minutes. Obtain medical attention if discomfort persists.

**5. FIRE-FIGHTING MEASURES**

**Flash Point:** > 93.4°C (200°F) PMCC, ASTM D93

**NFPA CLASSIFICATION USA**

Health: 1	Flammability: 1	Reactivity: 0	Special provisions: -
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**Extinguishing media**

- Suitable:
- Treat as an oil fire.
  - dry chemical
  - carbon dioxide (in case of small fires)
  - water fog
  - foam
  - sand or earth

Unsuitable: Do not use water jet. Oil will float on water and can spread any fire.

**Special firefighting procedures**

Do not direct a solid stream of water or foam into burning material; this may cause spattering and spread the fire. If a rail or tank truck is involved in a fire, ISOLATE for 800 meters (0.5 mile) in all directions. Shut off fuel to fire if it is possible to do so without hazard. If this is impossible, withdraw from the area and let the fire burn out under controlled conditions. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tank due to fire.

**Special protective equipment for firefighters**

Self-contained breathing apparatus.

**Unusual fire and explosion hazards**

This product will float upon water, so water spray is not a suitable extinguishing agent as it may cause any fire to spread.

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**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions**

Wear suitable protective equipment. Eliminate sources of ignition.

**Environmental precautions**

Avoid runoff to sewers or waterways. Dike area of spill to prevent spreading and pump liquid to salvage tank. Waste: avoid washing into watercourses. Use methods consistent with local regulations or incinerate.

**Methods for cleaning up**

Dike to contain spill. Absorb on inert material such as sand, earth, vermiculite. Stop the leak if it can be done without risk. Floor may be slippery; use care to avoid falling.

**7. HANDLING AND STORAGE**

**HANDLING**

Do not handle at temperatures >+40°C, unless wearing appropriate protective equipment.

**Ventilation**

General (mechanical) room ventilation is expected to be satisfactory for use at room temperature.

**STORAGE**

**Storage requirements**

Keep away from heat, sparks and flame. Do not store at temperatures: >+40°C without proper safety review of storage equipment. Store protected from light.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**EXPOSURE LIMIT VALUES**

COMPONENT	COUNTRY	TYPE/REMARK	VALUE
Mineral Oil Mist		If used in a way that generates A "mist" observe the limits for Mineral Oil Mist. TWA (mist), ACGIH STEL (mist), ACGIH	5mg/m3 10mg/m3

**OCCUPATIONAL EXPOSURE CONTROLS**

**Respiratory protection**

None expected to be needed. If used in a way that generates a vapor/mist, wear an organic vapor respirator.

**Hand protection/protective gloves**

Wear oil resistant gloves.

**Eye protection**

Face shield or chemical splash goggles in case of splashing.

**Skin protection**

Wear protective clothing, such as long sleeves to minimize skin contact.

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**Environmental Exposure Controls:**

Store in a second containment to catch leakages

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**

Physical State: Liquid  
 Color: Amber  
 Odor: Mild Petroleum  
 Odor Threshold: N/A

**Important health, safety and environmental information**

Flammability: No Data  
 Evaporation Rate: No Data  
 Decomposition Temperature: No Data  
 Flash Point: >93.4°C (200°F) Method: PMCC, ASTM D93  
 Upper explosion limits: Not determined  
 Lower explosion limits: Not determined  
 Vapor Pressure: <0.1 kPa at 20°C  
 Density: 0.81 – 0.89 g/cm<sup>3</sup> at 20°C  
 Bulk Density: Not available  
 Solubility in Water: Insoluble  
 Solubility in organic solvents: Soluble  
 Kinematic viscosity: > 20.5 mm<sup>2</sup>/s at 40°C , > 100 SUS @ 100°F  
 Boiling Point: > 230°C  
 PH: N/A  
 Specific gravity (H<sub>2</sub>O=1): <1  
 Partitioning coefficient: log POW: >6 This product is soluble in oil.  
 Vapor Density: N/A  
 Percent volatiles: Nil  
 Autoignition Temperature: No Data  
 Melting Point: N/A

**10. STABILITY AND REACTIVITY**

**Stability:** Stable

**Conditions/Materials to avoid:** Extreme temperature and direct sunlight/ultraviolet light and strong oxidizing agents.

**Hazardous combustion products**

Burning can produce the following combustion products: Oxides of carbon and Soot

**Hazardous polymerization:** Will not occur.

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**11. TOXICOLOGICAL INFORMATION**

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**GENERAL**

No evidence of harmful effects from available information.

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**12. ECOLOGICAL INFORMATION**

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This product is stable in water, and can be mechanically separated from water. The water may be suitable for disposal in a biological waste water treatment plant.

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**13. DISPOSAL CONSIDERATIONS**

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Dispose of in accordance with appropriate Federal, State and local regulations or incinerate.

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**14. TRANSPORT INFORMATION**

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**ADR/RID/IMDG/ICAO**

This product is not regulated by ADR / RID / IMDG / ICAO.

USA – This product is not regulated by DOT, Freight Description Road: 65 Petroleum Oil, N.O.I.B.N.

**TDG-CANADA**

This product is not regulated by TDG.

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**15. REGULATORY INFORMATION**

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**GHS classification**

According to EC/GHS regulations this product is not classified or labeled

Contains: Mineral Oil

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40CFR372 (for SARA 313). This information must be included in SDS's that are copied and distributed for this material.

Components present in this product at a level which could require reporting under the statute are:

\*\*\*\*NONE\*\*\*\*

**New Jersey Worker and Community Right-To-Know Act (Labeling Requirements)**

<b>Chemical name</b>	<b>CAS#</b>	<b>New Jersey TS Number</b>
Distillates (Petroleum) hydrotreated heavy naphthenic	64742-52-5	

**EPA Hazard Categories (SARA 311, 312):** None

**WHMIS Classification:** This product is not a WHMIS controlled product.

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**Chemical Inventory**

<u>Canada:</u>	The ingredients of this product are on the DSL.
<u>Europe:</u>	The ingredients of this product are on the EINECS inventory.
<u>United States:</u>	The ingredients of this product are on the TSCA inventory.
<u>Australia:</u>	The ingredients of this product are on the AICS inventory.
<u>China:</u>	This product is on the IECSC inventory.
<u>Japan:</u>	The ingredients of this product are on the ENCS inventory.
<u>Korea:</u>	This product is listed on the Existing Chemicals List (ECL).
<u>Philippines:</u>	This product is on the PICCS.

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**16. OTHER INFORMATION**

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**Recommended uses and restrictions**

Please consult the product and/or application information bulletins for this product.

**Further information, Europe**

Where appropriate, use CE approved personal protection equipment.

This Safety Data Sheet conforms to EC Directive 1907/2006 and amendments.

The opinions expressed herein are those of qualified experts within Sonneborn, LLC. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of Sonneborn, LLC it is the user's obligation to determine the conditions of safe use of the products.