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**Product name: SUNISO® 5GS Refrigeration Oil**

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## 1. PRODUCT AND COMPANY IDENTIFICATION

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<b>Product name:</b>	SUNISO® 5GS Refrigeration Oil
<b>Chemical name:</b>	Refined Petroleum Oil

**Supplier:** Sonneborn, Inc.  
575 Corporate Drive, Suite 415  
Mahwah, NJ 07430 USA

**Emergency telephone number:** CHEMTREC (24 hours) 800-424-9300  
Sonneborn, Inc. Emergency Response  
(24 hours) 724-756-2210

**For MSDS, Product Safety, or regulatory inquiries, call:** 877-948-2688

**Customer Service:** 877-948-2688

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

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COMPONENT	CAS#	CONCENTRATION
Distillates, (petroleum), hydrotreated heavy naphthenic	64742-52-5	> 50.0 %
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	< 50.0 %

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Note(s): This is not a dangerous substance

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## 3. HAZARDS IDENTIFICATION

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### EMERGENCY OVERVIEW

THIS PRODUCT IS A REFINED MINERAL OIL AND IT IS NOT EXPECTED TO PRESENT ANY UNUSUAL HAZARDS, IN PROPER USE.

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## 4. FIRST AID MEASURES

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### Swallowing

Do not induce vomiting. Treat symptomatically. Not expected to be toxic by ingestion.

### Skin

No emergency care anticipated. Wash skin with soap and water. Remove contaminated clothing. Wash clothing before re-use. Obtain medical attention if irritation persists.

### Inhalation

Obtain medical attention. Oxygen may be given by qualified personnel if breathing is difficult or cyanosis (blue

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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.

**Eye contact**

Immediately flush eyes with water and continue washing for at least 15 minutes. Obtain medical attention if irritation persists.

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**5. FIRE-FIGHTING MEASURES**

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<b>Flash point:</b>	> 187 °C	(> 370 °F)
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**NFPA CLASSIFICATION**

Health: 1	Flammability: 1	Reactivity: 0	Special provisions: -
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**Special fire fighting procedures**

Use water spray to cool fire-exposed containers and structures. 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. Withdraw immediately if rising sound from venting safety device or any discoloration of storage tanks due to fire.

**Special protective equipment for firefighters**

Body covering protective clothing, full "turn-out" gear. Self-contained breathing apparatus with full face-piece operated in positive pressure mode.

**Extinguishing media**

Suitable: Treat as an oil fire.  
Small fires:  
- CO2  
- dry powder  
- foam  
Large fires:  
- alcohol-type foam or universal-type foams  
- water fog

Unsuitable: Oil will float on water and can spread any fire.

**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**

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**Personal precautions**

Wear protective clothing when taking up spill. Eliminate sources of ignition.

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**Environmental precautions**

This product is insoluble in water and will float on the surface. Prevent from entering sewers or drains. Should this product enter sewers or drains, it should be pumped out into an open vessel. Emergency services may need to be called to assist in this operation.

**Methods for cleaning up**

Floor may be slippery; use care to avoid falling.

Small spills      Cover remaining spilled product with dry powder, dry sand, or Vermiculite.

Large spills      Large spill: Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.  
Stop leak, if without risk.

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**7. HANDLING AND STORAGE**

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**HANDLING****Handling precautions**

Never use pressure to empty drums. Keep drums tightly closed to prevent contamination. Residual vapors may explode on ignition; do not puncture, drill, grind, or weld near this container. Electrically bond and ground all containers and equipment before transfer or use of material.

**STORAGE****Storage requirements**

Normal precautions common to safe manufacturing practice should be followed in handling and storage. Store in a dry place. Keep out of strong sunlight. Keep away from heat and flame. Keep container tightly closed.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

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**PERSONAL PROTECTION****Respiratory protection**

If vapor and/or mist is generated by heating, spraying, etc., wear an organic vapor respirator with a mist filter. No special respiratory protection is normally required.

**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.

**Industrial hygiene measures**

Remove contaminated clothing and clean it.

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Do not eat or drink at work.

**ENGINEERING CONTROLS****Ventilation**

Local ventilation is needed in the presence of airborne mists.

**EXPOSURE LIMITS**

<u>Component</u>	<u>Type</u>	<u>Value</u>	<u>Remark</u>
Mineral Oil Mist	TWA (mist), ACGIH	5.0 mg/m <sup>3</sup>	If used in way that generates a "mist" observe the limits for Mineral Oil Mist.
	STEL (mist), ACGIH	10.0 mg/m <sup>3</sup>	

**9. PHYSICAL AND CHEMICAL PROPERTIES****APPEARANCE**

<b>Physical state</b>	Liquid
<b>Color</b>	Amber
<b>Odor</b>	Mild petroleum

**OTHER PROPERTIES**

<b>Boiling point</b>	> 260 °C at STP unless specified below.
<b>Specific gravity (H<sub>2</sub>O=1)</b>	< 1
<b>Vapor pressure</b>	< 0.005 hPa (0.00 mmHg) at 20 °C
<b>Vapor density (air=1)</b>	> 10
<b>Solubility in water</b>	Insoluble
<b>Solubility in organic solvents</b>	Soluble
<b>Partitioning coefficient</b>	log POW: > 6 This product is soluble in oil.
<b>Flash point</b>	> 187 °C (> 370 °F) Method: Cleveland open cup ASTM D 92
<b>Percent volatiles</b>	Nil
<b>Kinematic viscosity</b>	> 30 mm <sup>2</sup> /s at 40 °C

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## 10. STABILITY AND REACTIVITY

**Stability:** Stable.

### Incompatible materials

Normally unreactive; however avoid contact with:

Strong oxidizing agents.

Sunlight or ultraviolet light.

Heat or high temperature.

### Hazardous combustion products

Burning can produce the following combustion products:

Oxides of carbon.

Soot

**Hazardous polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

### SWALLOWING

#### Acute effects

Ingestion is unlikely to have any toxic effects but the product may act as an intestinal lubricant and result in diarrhea and frequent loose stools.

If vomiting occurs, aspiration may cause delayed pulmonary edema and chemical pneumonia.

#### Test results

Acute toxicity: Remark: No data available.

### SKIN ABSORPTION

#### Acute effects

Harmful effects are not expected from short periods of contact.

#### Effects of repeated overexposure

Prolonged or repeated contact may lead to skin irritation by dermatitis or oil acne.

### INHALATION

#### Acute effects

Harmful effects are not expected from static vapor at ambient temperature.

Inhalation of mist or spray may be harmful.

#### Chronic effects

Aspiration may cause pulmonary edema or aspiration pneumonia.

Oil deposits in the lung may lead to fibrosis and reduced pulmonary function.

Prolonged or repeated inhalation of excessive amounts of oil mist or vapors may cause irritation of the respiratory tract.

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**Test results**

Acute toxicity: Remark: No data available.

**SKIN CONTACT****Acute effects**

No evidence of harmful effects from available information.

**EYE CONTACT****Acute effects**

No evidence of harmful effects from available information.

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**12. ECOLOGICAL INFORMATION**

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Not expected to be acutely toxic to aquatic organisms. 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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**General:** Incineration is probably the best means of disposal. Dispose of in accordance with appropriate Federal, State, and local regulations.

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**14. TRANSPORT INFORMATION**

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**DOT Classification**

This product is not regulated by DOT.

**Freight description road:** 65 PETROLEUM OIL, N.O.I.B.N

**IMDG Classification**

This product is not regulated by IMDG.

**ICAO Classification**

This product is not regulated by ICAO.

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**15. REGULATORY INFORMATION**

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**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 MSDS'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)**

Chemical name

CAS#

New Jersey TS Number

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Distillates, (petroleum), hydrotreated heavy naphthenic 64742-52-5  
 Distillates (petroleum), solvent-refined heavy paraffinic 64741-88-4

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

**CHEMICAL INVENTORY**

Canada: The ingredients of this product are on the DSL.

Europe: The ingredients of this product are on the EINECS inventory.

United States: The ingredients of this product are on the TSCA inventory.

Australia: The ingredients of this product are on the AICS inventory.

China: This product is on the IECSC Inventory.

Japan: The ingredients of this product are on the ENCS inventory.

Korea: The ingredients of this product are on the ECL.

Philippines: The ingredients of this product are on the PICCS.

**16. OTHER INFORMATION****FURTHER INFORMATION**

MAY BE ON THE INVENTORY LIST BUT NOT NECESSARILY REGISTERED, (Korea, China, New Zealand) CONSULT REGULATORY SPECIALIST.

**HMIS RATING**

Health: 1	Flammability: 1	Reactivity: 0	PPI: -
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**LEGEND**

STP	Standard temperature and pressure
W/W	Weight/Weight
0 (HMIS)	Minimal hazard
1 (HMIS)	Slight hazard
2 (HMIS)	Moderate hazard
3 (HMIS)	Serious hazard
4 (HMIS)	Severe hazard
X (HMIS)	Personal protection rating to be supplied by user depending on use conditions

Copyright 2005 Sonneborn, Inc.

The opinions expressed herein are those of qualified experts within Sonneborn Inc.. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this

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information and of these opinions and the conditions of use of this product are not within the control of Sonneborn Inc., it is the user's obligation to determine the conditions of safe use of the products.