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## SAFETY DATA SHEET

#### **SECTION 1. IDENTIFICATION**

Product identifier used on the label					
	SUNISO® 3GS Refrige	ration Oil			
Product Code(s)		L316 (P/N 457326), L318 (P/N 475328), L321 (P/N 475334), L324 (P/N 475340), L350 (P/N 475344), L351 (P/N 475345), L354 (P/N 475348) and L357 (P/N 475350).			
Recommended use of the cl	hemical and restrictions on use				
	: Severly refined naphthenic refrie Restriction on use: None known				
Chemical family	: Mixture. Petroleum distillates				
Name, address, and telep of the supplier:	Name, address, and telephone number of of the supplier: Name, address, and telephone number of the manufacturer:				
Parker Hannifin Corporat	ion - Sporlan Division	Refer to supplier			
206 Lange Drive Washington, MO, U.S.A. 63090					
Supplier's Telephone #	: (636) 239-1111				
24 Hr. Emergency Tel #	: Chemtrec 1-800-424-9300 (With (Outside U.S.).	nin Continental U.S.); Chemtrec 703-527-3887			

#### SECTION 2. HAZARDS IDENTIFICATION

#### **Classification of the chemical**

Amber liquid. Petroleum odor.

This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

#### Label elements

Hazard pictogram(s)

None required under U.S. OSHA Hazcom 2012 and Canadian WHMIS 2015 regulations.

Signal Word

Not required

Hazard statement(s)

None required.

Precautionary statement(s)

None required.

#### Other hazards

Other hazards which do not result in classification:

Burning produces obnoxious and toxic fumes. May be mildly irritating to eyes and skin.Oils can block the skin pores causing an acne-like disorder. Ingestion can cause gastrointestinal irritation, nausea, and diarrhea. If product is heated or mists are formed, inhalation may cause irritation to the nose, throat and respiratory tract. Environmental precautions: Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

#### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	Common name and synonyms	<u>CAS #</u>	Concentration (% by weight)
	Common nume and Synonyms	<u></u>	



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Distillates (petroleum), hydrotreated heavy naphthenic	Distillates, petroleum, hydrotreated middle	64742-52-5	80.0 - 100.0			
The exact concentrations of the above listed chemicals are being withhold as a trade secret						

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

### **SECTION 4. FIRST-AID MEASURES**

Description of first aid mea	asures
Ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms persist.
Inhalation	<ul> <li>Move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. If irritation or symptoms develop, seek medical attention.</li> </ul>
Skin contact	<ul> <li>For skin contact, wash with soap and water while removing contaminated clothing. If irritation persists, seek prompt medical attention. Wash contaminated clothing before reuse.</li> </ul>
Eye contact	<ul> <li>Immediately flush eyes with running water for at least 5 to 10 minutes. If irritation persists, seek prompt medical attention.</li> </ul>
Most important symptoms	and effects, both acute and delayed
	: May be mildly irritating to eyes and skin. May cause irritation, redness and pain. Oils can block the skin pores causing an acne-like disorder. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause irritation of mouth, throat, and stomach. May cause irritation of respiratory tract. Symptoms may include coughing, choking and wheezing.
Indication of any immediat	e medical attention and special treatment needed

: Treat symptomatically.

## SECTION 5. FIRE-FIGHTING MEASURES

n
Extinguishing media
Suitable extinguishing media
: Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.
Unsuitable extinguishing media
: Do not use water jet, as this may spread burning material.
Special hazards arising from the substance or mixture / Conditions of flammability
<ul> <li>Not flammable under normal conditions of use. However, may ignite if exposed to extreme heat and flame. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.</li> </ul>
Flammability classification (OSHA 29 CFR 1910.106)
: Non-flammable.
Hazardous combustion products
: Carbon oxides;Nitrogen oxides ; Sulfur oxides ; Phosphorus compounds ; Polycyclic aromatic hydrocarbons. Other unidentified organic compounds .
Special protective equipment and precautions for firefighters
Protective equipment for fire-fighters
<ul> <li>Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.</li> </ul>
Special fire-fighting procedures
: Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Prevent fire extinguishing water from contaminating surface water or the ground water system. Dike for water control.
SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures



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: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. **Methods and material for containment and cleaning up** 

: Remove all sources of ignition. Ventilate area of release. Stop the spill at source if it is safe to do so. Dike for water control. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as required. Refer to Section 13 for disposal of contaminated material.

#### Special spill response procedures

- If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).
  - US CERCLA Reportable quantity (RQ): None.

### SECTION 7. HANDLING AND STORAGE

#### Precautions for safe handling

	:	Wear suitable protective equipment during handling. Use with adequate ventilation. Avoid breathing vapors, fumes or dust. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and flame. Avoid contact with incompatible materials. Keep containers closed when not in use. Wash thoroughly after handling. Empty containers retain residue (liquid and/or vapour) and can be dangerous.
Conditions for safe storage Incompatible materials	:	Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Inspect periodically for damage or leaks. Protect against physical damage. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Oxidizing agents.

#### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:				
Chemical Name	ACGIH TLV		OSHA PEL	
	TWA	<u>STEL</u>	PEL	<u>STEL</u>
Distillates (petroleum), hydrotreated heavy naphthenic	5 mg/m³ (As 'Oil mist, mineral')	N/Av	5 mg/m³ (As 'Oil mist, mineral')	N/Av

#### **Exposure controls**

#### Ventilation and engineering measures

0 0		
	:	Use with adequate ventilation. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.
Respiratory protection	:	If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Advice should be sought from respiratory protection specialists.
Skin protection	:	Gloves impervious to the material are recommended. Advice should be sought from glove suppliers.
Eye / face protection	:	Safety goggles or glasses as appropriate for the job.
Other protective equipment	:	Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. Ensure that eyewash stations and safety showers are close to the workstation location.



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: Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES						
Appearance	: Amber liquid.					
Odour	: Petroleum odor.					
Odour threshold	: N/Av					
pH	: N/Av					
Melting/Freezing point	: N/Av					
Initial boiling point and boilin	g range					
510 510	: >230°C (446°F)					
Flash point	> 93.3°C (200°F)					
	N/Av Pensky Martens Closed Cup					
Evaporation rate (BuAe = 1)	•					
	Not flammable.					
Lower flammable limit (% by v						
	: N/Av					
Upper flammable limit (% by v	/ol.)					
	: N/Av					
Oxidizing properties	: None known.					
Explosive properties	: Not explosive					
Vapour pressure	: <0.01 mmHg (0.008 kPa)					
Vapour density	: N/Av					
Relative density / Specific gra	vity					
	: <1					
Solubility in water	: insoluble					
Other solubility(ies)	: N/Av					
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution						
	: >20					
	: N/Av					
Decomposition temperature						
Viscosity	: 19-150 mm2S @ 40°C (104°F)					
Volatiles (% by weight)						
Volatile organic Compounds	· · · ·					
Abachuta procesure of contain	: N/Av					
Absolute pressure of contain						
<b>-</b>	: N/Ap					
Flame projection length	: N/Ap					
Other physical/chemical com						
	: No additional information.					
SECTION 10. STABILITY A	ND REACTIVITY					
Reactivity	: Not normally reactive.					
Chemical stability	: Stable under the recommended storage and handling conditions prescribed.					
Possibility of hazardous react						
Conditions to succid	Hazardous polymerization will not occur.					
Conditions to avoid	: Avoid heat and open flame. Avoid contact with incompatible materials. Do not use in areas without adequate ventilation.					
Incompatible materials	areas without adequate ventiliation.					

Incompatible materials : See Section 7 (Handling and Storage) for further details.



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#### Hazardous decomposition products

: None known, refer to hazardous combustion products in Section 5.

#### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure:

Routes of entry inhalation : YES

Routes of entry skin & eye : YES

Routes of entry Ingestion : YES

Routes of exposure skin absorption

: NO

#### **Potential Health Effects:**

#### Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

	:	If product is heated or mists are formed, inhalation may cause irritation to the nose, throat and respiratory tract.
Sign and symptoms ingestion	n	
	:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause irritation of mouth, throat, and stomach.
Sign and symptoms skin	:	Direct skin contact may cause slight or mild, transient irritation.
Sign and symptoms eyes	:	May cause mild irritation, redness and watering.
Potential Chronic Health Effe	ct	S
	:	Oils can block the skin pores causing an acne-like disorder.
Mutagenicity	:	Not expected to be mutagenic in humans.
Carcinogenicity	:	No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
Reproductive effects & Terat	og	enicity
	:	Not expected to cause reproductive effects.
Sensitization to material	:	This material is not classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012).
Specific target organ effects	:	The substance or mixture is not classified as specific target organ toxicant, single exposure.
		The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Medical conditions aggravate	ed	by overexposure
	:	Pre-existing skin and respiratory disorders.
Synergistic materials	:	Not available.
Toxicological data	:	See below for toxicological data on the substance.

	LC₅₀(4hr)	LD50	
Chemical name	<u>inh, rat</u>	(Oral, rat)	(Rabbit, dermal)
Distillates (petroleum), hydrotreated heavy naphthenic	> 5 mg/L (mist)	> 5000 mg/kg	> 2000 mg/kg

: None known or reported by the manufacturer.



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### SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

Ingradianta		Toxicity to Fish		
<u>Ingredients</u>	CAS No	LC50 / 96h	NOEC / 21 day	M Factor
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	> 5000 mg/L (Rainbow trout)	N/Av	None.

Ingredients	CAS No	Toxicity to Daphnia					
		EC50 / 48h	NOEC / 21 day	M Factor			
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	> 1000 mg/L (Daphnia magna)	N/Av	None.			

Ingredients	CAS No	Toxicity to Algae				
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor		
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	> 1000 mg/L/96hr (Green algae)	N/Av	None.		

Persistence and degradability

: Inherently biodegradable.

**Bioaccumulation potential** : The product itself has not been tested.

<u>Components</u>	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Distillates (petroleum), hydrotreated heavy naphthenio (CAS 64742-52-5)	>20	
Mobility in soil :	The product itself has not been tested.	

#### Other Adverse Environmental effects

: None known.

#### SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal Methods of Disposal	:	Handle waste according to recommendations in Section 7. Dispose in accordance with all applicable federal, state, provincial and local regulations.
RCRA	:	If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.



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## SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label			
49CFR/DOT	None.	Not regulated.	Not regulated	none	$\bigotimes$			
49CFR/DOT Additional information	None.							
TDG	None.	Not regulated.	Not regulated	none	$\bigotimes$			
TDG Additional information	None.	1	<u> </u>					
ICAO/IATA	None.	Not regulated.	Not regulated	none	$\bigotimes$			
ICAO/IATA Additional information	None.							
Special precautions for user       Appropriate advice on safety must accompany the package.         Environmental hazards       This substance does not meet the criteria for an environmentally hazardous substance								

This substance does not meet the criteria for an environmentally hazardous substance according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable.

## SECTION 15 - REGULATORY INFORMATION

#### **US Federal Information:**

Components listed below are present on the following U.S. Federal chemical lists:

la sur d'ante		TSCA	CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
<u>Ingredients</u>	CAS #	CAS # Inventory	Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration	
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Yes	N/Ap	N/Av	No	0.1%	

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: None.

Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.



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#### US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	No	N/Ap	No	No	No	No	No	No

#### **Canadian Information:**

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

#### International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	265-155-0	Present	Present	(9)-1689	KE-12543	Present	No information available.

#### **SECTION 16. OTHER INFORMATION**

PA: Pennsylvania PEL: Permissible exposure limit	HM HSI IAR Inh: IUC MA: MN MN MN MSI N/A N/A N/A N/A N/A N/A N/A N/FF NIC NJ: NTF OSI PA:	
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	SAFETY DATA SHEET								
References :	RCRA: Resource Conserva RI: Rhode Island RTECS: Registry of Toxic Ef SARA: Superfund Amendmo STEL: Short Term Exposure TDG: Canadian Transportat TLV: Threshold Limit Values TWA: Time Weighted Averag WHMIS: Workplace Hazard 1. ACGIH, Threshold Limit V Biological Exposure Indices 2. International Agency for R 3. Canadian Centre for Occu 2017(Chempendium, HSDB 4. Material Safety Data Shee 5. US EPA Title III List of Lis 6. California Proposition 65 I 7. OECD - The Global Portal eChemPortal,2017.	ffects of Chemical Subst ents and Reauthorization Limit tion of Dangerous Goods ge ous Materials Identificati Yalues for Chemical Subs for 2016 Research on Cancer Mor upational Health and Saf and RTECs). ets from manufacturer. ts - 2017 version. List - 2017 version.	n Act s Act & Regulations on System stances and Physical Agents & nographs, searched 2017 ety, CCInfoWeb databases,						
Preparation Date (mm/dd/yyyy)									
: Reviewed Date SDS (dd/mm/yy	04/17/2015 vvv)								
Revision No. : Revision Information : Other special considerations for	07/02/2019 2 All (format change)	n instruction and trainin	n for operators						
HMIS Rating :	*- Chronic hazard 0 - Mini								
NFPA Rating	0 - Minimal 1 - Slight Health: 1 Flammabilit		Serious4 - SevereSpecial Hazards:None.						
Prepared for: Parker Hannifin Corporation S 206 Lange Drive, Washington, I Telephone: (636) 239-1111 www.parker.com Direct all enquiries to: Parker H Division.	MO 63090 U.S.A.								
Prepared by: ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.): http://www.thecompliancece		icc Com	<b>pliance</b> Center						

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