

# HEALTH & SAFETY DATA SHEET

## 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

NAME OF MANUFACTURER/SUPPLIER

SHEET 1 of 3 ISSUE 2

PETRO-LUBE (UK) LIMITED

LAST REVISION DATE: 01/06/99

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HEALTH & SAFETY EMERGENCY NO: (OUT OF HOURS ONLY)

PRODUCT NAME: SUNISO 3GS, 4GS, 5GS, 6GS and 4SA

PRODUCT TYPE: A non-additive naphthenic mineral lubricating oil

APPLICATION: Refrigeration compressor lubricating oil

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

GENERAL:

Blend of 100%highly refined non-additive mineral oil

## 3. HAZARD IDENTIFICATION

This product is not classified as hazardous under current UK Health and Safety and Environmental Legislation when used in the application for which it is intended.

However, prolonged or extensive skin contact with the product may result in skin disorders.

The risk of skin disorders may be increased if the product has become contaminated.

## 4. FIRST AID MEASURES

EYES: Irrigate immediately with copious quantities of water. If irritation persists seek medical attention.

SKIN: Wash thoroughly with soap and water.

INHALATION: Remove to fresh air. If effects persist, seek medical advice.

INGESTION: DO NOT induce vomiting. Wash mouth out with water. Obtain immediate medical attention showing this sheet

PRESSURE Always obtain immediate medical attention even though the injury may appear minor.

INJECTION:

## 5. FIRE FIGHTING MEASURES

FLAMMABILITY: Product not classified as flammable but is inherently combustible

FLASH POINT Deg C: Min 150

EXTINGUISHING MEDIA: Use foam, dry powder, CO2. Use water fog to cool fire exposed surfaces

PRODUCTS OF COMBUSTION CO2 AND CO

## 6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Spilt product presents a significant slip hazard. Avoid exposure of the product to sources of ignition.

ENVIRONMENTAL PRECAUTIONS: Prevent entry into drains, sewers and water courses.

DECONTAMINATION PROCEDURES: Soak up with inert absorbent or contain and remove by pumping or best available means. In case of spillage on water, contain with a boom and collect by skimming or absorption.

**7. HANDLING AND STORAGE**

Keep containers tightly closed.  
 Store drums under cover in racking protected from mechanical impact. If stored outside ingress of water should be avoided, for example, by placing containers on their side.  
 Avoid sources of ignition.  
 A bunded storage area may be required.  
 Compatible with most common metals.  
 May soften certain rubbers.  
 If the product is to be heated avoid direct high temperature heat sources.  
 Provide suitable mechanical equipment for the safe handling of drums and heavy packages.

Storage Temperature: Max 30 Deg C

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

	SUBSTANCE	8-HOUR TWA	STEL	SOURCE/ OTHER INFORMATION
OCCUPATIONAL EXPOSURE LIMITS	Mineral Oil (see oil mist, mineral)	5mg/m3	10mg/m3	EH40
ENGINEERING CONTROL MEASURES :	Local exhaust ventilation is recommended when excessive product misting appears.			
PERSONAL PROTECTION :	Avoid skin and eye contact. Wear impervious gloves (e.g. of PVC), in case of repeated or prolonged contact. Change contaminated clothing and thoroughly clean before re-use.			

**9. PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE :	Clear Liquid
ODOUR:	Slight Oil Smell
BOILING POINT/RANGE-Deg C:	Wide
POUR POINT/MELTING POINT - Deg C:	Min -30
FLASH POINT (Closed, Deg C):	Min 150
AUTOFLAMMABILITY (Deg C):	N/A
EXPLOSIVE PROPERTIES (%):	-
RELATIVE DENSITY ( at 20 Deg C ):	0.91 - 0.92
WATER SOLUBILITY.	0
FAT SOLUBILITY.	-
KINEMATIC VISCOSITY AT 40 Deg C (mm2s-1):	See individual product specifications

**PLEASE NOTE THAT THESE PROPERTIES DO NOT CONSTITUTE A SPECIFICATION**

**10. STABILITY AND REACTIVITY**

STABILITY:	Stable, will not polymerise
CONDITIONS TO AVOID:	Temperatures ( Deg C ) above
MATERIALS TO AVOID:	Strong oxidising agents
HAZARDOUS DECOMPOSITION PRODUCTS:	Irritant Fumes. Do not breathe products of decomposition.

**11.TOXICOLOGICAL INFORMATION**

The following toxicological assessment is based on a knowledge of the toxicity of the product's components.  
 Estimated oral LD50, rat > 2g/kg:

HEALTH EFFECTS:	
ON EYES:	May cause transient irritation.
ON SKIN:	Unlikely to cause harm on brief or occasional contact.
BY INHALATION:	Low volatility makes inhalation unlikely at ambient temperatures.
BY INGESTION:	May cause nausea, vomiting and diarrhoea
CHRONIC:	Repeated and prolonged skin contact may lead to skin disorders.
OTHER:	Products which have become contaminated in use or from external sources may present more serious health effects.

**12. ECOLOGICAL INFORMATION**

BIODEGRADABILITY. < 50 % (CEC L-33-T-82) Chemical Oxygen Demand (mgO<sub>2</sub>/l): Not determined.

Mineral oils are inherently but not readily biodegradable.

Leaching and penetration of mineral oils through surface soils is generally regarded as resulting in long term persistence.

Fresh or used mineral oils may be harmful to aquatic life.

**13 DISPOSAL CONSIDERATIONS**

Place used and contaminated materials/packaging in suitable containers. Dispose of the controlled waste in accordance with Duty of Care regulations (Environmental Protection Act 1990 - Section 34 (7) ), using a licensed waste disposal company.

**14. TRANSPORT INFORMATION**

Classification for transport: NOT CLASSIFIED AS HAZARDOUS FOR TRANSPORT

UN Number	N/A	Packaging Group:	N/A
Shipping name	N/A	Marine Pollutant:	N/A
IMO Class	N/A	ICAO/IATA :	N/A
ARD/RID	N/A		

**15. REGULATORY INFORMATION**

Hazard Label Data: This product is not classified as dangerous for supply in the UK.

EC Directives: Framework Waste Directive 91/156/EEC  
Waste Oil Directive 87/101/EEC.

Statutory Instruments The Health & Safety at Work, etc Act 1974  
Consumer Protection Act 1987  
Environmental Act 1990  
Control of Substances Hazardous to Health Regulations 1988  
Chemicals (Hazard Information and Packaging) Regulations 1998

**16. OTHER INFORMATION**

The data and advice given apply when product is sold for the stated application or applications. The product is not sold as suitable for any other application. Use of the product for application other than as stated in this sheet may give rise to risks not mentioned in this sheet. You should not use the product other than for the stated application or applications without seeking advice from us.

If you have purchased the product for supply to a third party for use at work, it is your duty to take all necessary steps to secure that any person handling or using the product is provided with the information on this sheet.

If you are an employer, it is your duty to tell your employees and others who may be affected of any hazards described in this sheet and of any precautions which should be taken.

Approved Codes of Practice: Waste Management. The Duty of Care.

Guidance Notes: Occupational skin diseases: health and safety precautions (EH 26)  
Occupational exposure limits (EH 40)  
The carcinogenicity of mineral oils (EH 58)  
Skin cancer caused by oils [MS(B)5]  
Save your skin! Occupational Contact Dermatitis [MS(B)6]  
Dermatitis - cautionary notice [SHW 367]  
Effects of mineral oil on the skin (SHW 397)

( THE ABOVE PUBLICATIONS ARE AVAILABLE FROM HMSO AND HSE SOURCES )