



Product: SUNISO 3GS

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

PRODUCT TRADE NAME:

SUNISO 3GS

PRODUCT CODE: 1SAQ

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE:

Lubricant for refrigerator compressors.

USES ADVISED AGAINST

This product should not be used for other purposes than those specified without the advice of an expert.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

COMPANY IDENTIFICATION:

PETRONAS LUBRICANTS BELGIUM NV

Ingberthoeveweg 4

B-2630 Aartselaar

Tel: +32 (0)3 - 458 12 30

Fax: +32 (0)3 - 458 14 78

COMPETENT PERSON RESPONSIBLE FOR SAFETY DATA OF PRODUCT:

Herwig De Landtsheer

e-mail: tcs@be.petronas.com

1.4 EMERGENCY TELEPHONE NUMBER

+32 (0)70 - 245 245, Poisons Centre Rue Bruynstraat, B-1120 Brussel/Bruxelles, Belgium

+31 (0)30 - 274 88 88, Nationaal Vergiftigingen Informatie Centrum, Antonie van Leeuwenhoeklaan

9, 3721 MA BILTHOVEN, Nederland



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2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Directives 67/548/EEC or 1999/45/EC:

This product is not considered hazardous for people or for environment according to EC directives (see headings 11 and 12, too).

Regulation (EC) No 1272/2008

This product is not classified according to Regulation 1272/2008 and following updates.

2.2 LABEL ELEMENTS

Not applicable.

SIGNAL WORD

Not applicable.

CONTAINS:

HAZARD STATEMENTS

Not applicable.

PRECAUTIONARY STATEMENTS

Not applicable.

OTHER INDICATIONS:

None.

2.3 OTHER HAZARDS

Prolonged or repeated skin contact sometimes may cause irritations and dermatitis.

The product is not readily biodegradable. In case of large accidental spills, it is a potential source of soil, watercourse and groundwater pollution.



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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

Severely refined mineral oils.

Directive 67/548/EEC:

COMPONENTS	EINECS	CAS	REG_NUM	QUANTITY	SIMBOLO	R-PHRASES
Severely refined naphthenic mineral oils	265-155-0	64742-52-5		100%	-	-

Regulation (EC) No 1272/2008

COMPONENTS	EINECS	CAS	REG_NUM	QUANTITY	CLASSE	FRASI-H
Severely refined naphthenic mineral oils	265-155-0	64742-52-5		100%		

R-phrases, H-phrases and list of abbreviations: see heading 16.

4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

INGESTION:

Do not induce vomiting to avoid aspiration into the respiratory tracts. Obtain medical attention.

EYE CONTACT:

Rinse thoroughly with plenty of water for at least 10 minutes keeping eyelids open. Obtain medical attention if any pain or redness develops or persists.

SKIN CONTACT:

Remove contaminated clothes and shoes and rinse thoroughly with plenty of water and soap.



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INHALATION:

Expose affected person to fresh air and obtain medical attention if necessary.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Refer to section 11.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Refer to section 4.1.

5. FIREFIGHTING MEASURES

FLASH POINT: 168°C (ASTM D 92)

5.1 EXTINGUISHING MEDIA

This product has no special fire risk. In case of fire use foam, carbon dioxide, dry chemical powder and water mist.

Avoid high pressure water jet. Use water jet only to cool down surfaces exposed to fire.

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Don't breathe combustion fumes: fire can form harmful compounds.

COMBUSTION PRODUCTS:

Oxides of carbon, compounds of sulphur, phosphorus, nitrogen and products of incomplete combustion.

5.3 ADVICE FOR FIREFIGHTERS

Protective clothing complete with autobreathing feature.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Avoid contact with skin and eyes by wearing appropriate protective clothing.



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Surfaces on which the product has been spilled may become slippery.

6.2 ENVIRONMENTAL PRECAUTIONS

Prevent the material from entering soil, sewers and water courses. Contact the appropriate authorities if necessary.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

In case of large spills dike and pump into suitable containers for disposal. Contain small spills with absorbent material. Put dirty material in suitable container. Dispose of dirty material in accordance with local or national regulations.

6.4 REFERENCE TO OTHER SECTIONS

Refer to sections 8 and 13 for more information.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid frequent and prolonged skin contact and contact with eyes. Provide adequate ventilation to avoid mist or aerosol. Practice reasonable personal cleanliness.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store under cover in the original container securely closed away from heat and sources of ignition. Do not store in the open air. Assure a correct ventilation of premises and the control of possible leak.

7.3 SPECIFIC END USE(S)

Refer to the uses listed in Section 1.2.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS



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OCCUPATIONAL EXPOSURE LIMITS:

The recommended exposure limits (ACGIH) are:

CHEMICAL AGENT		LIMIT
oil mists	TLV/TWA (8 h)	5 mg/m ³
oil mists	TLV/STEL	10 mg/m ³

8.2 EXPOSURE CONTROLS

TECHNICAL PRECAUTIONS:

Avoid production and diffusion of mist and aerosol with utilization of localized ventilation/aspiration or other required precautions. If necessary, adopt all required precaution to avoid product immission in environment (e.g., blasting systems, catch basins, ...).

RESPIRATORY PROTECTION:

None required under normal conditions of use. Use approved full face respirator with organic vapour filter cartridge if the recommended exposure limits are exceeded.

HAND AND SKIN PROTECTION:

Wear suitable gloves in oil-proof material (i.e. neoprene, nitrile). Gloves should be changed when they show wear. The kind of gloves and the term of use must be decided from employer with regard to processing and to allow for legislation on personal protection equipment and glove producer's indications.

Wear gloves only with clean hands.

Wear suitable protective clothing (for further information, refer to CEN-EN 14605); change it immediately in case of large contamination and wash it before subsequent use.

Practice reasonable personal cleanliness.

EYE PROTECTION:

Chemical goggles and face shield in case of oil splashes.

9. PHYSICAL AND CHEMICAL PROPERTIES



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9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

CHEMICAL AND PHYSICAL PROPERTIES	VALUE	METHOD
APPEARANCE	Viskeuze vloeistof	--
DENSITY 15°C	0,91	ASTM D 4052
WATER SOLUBILITY	Onoplosbaar	
VISCOSITY @ 40°C	30 cSt	ASTM D 445
VISCOSITY @ 100°C	4,4	ASTM D 445
INITIAL BOILING POINT	>300°C	ASTM D 1120
FLASH POINT	168°C	ASTM D 92
ODOUR	Not determined	
ODOUR THRESHOLD	Not determined	
pH	Not applicable	
MELTING POINT/FREEZING POINT	Not determined	
EVAPORATION RATE	Not determined	
FLAMMABILITY (SOLID, GAS)	Not applicable	
UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS	Not determined	

9.2 OTHER INFORMATION

10. STABILITY AND REACTIVITY

10.1 REACTIVITY

Read carefully all information provided in other sections of heading 10.

10.2 CHEMICAL STABILITY

The product is stable under normal conditions of use.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

Not expected under normal conditions of use.

10.4 CONDITIONS TO AVOID



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This product must be kept far from heat sources. In any case, avoid exposing product to temperatures above the flash point.

10.5 INCOMPATIBLE MATERIALS

Strong oxidizing agents, hard acids and bases.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Oxides of carbon, compounds of sulphur, phosphorus, nitrogen and hydrogen sulfide.

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

INGESTION:

Unlike to cause harm if accidentally swallowed in small doses, though ingestion of large quantities may cause gastro-intestinal effects.

INHALATION:

Inhalation of mists and vapours generated at elevated temperatures may cause respiratory irritation.

EYE CONTACT:

Contact may cause slight irritations.

SKIN CONTACT:

Product is not an irritant, but prolonged or repeated contacts may cause irritations or dermatitis.

12. ECOLOGICAL INFORMATION

12.1 TOXICITY

This product is not classified dangerous for the environment, but it is considered not readily biodegradable.

Given its physical and chemical characteristics, the product generally shows weak tendency to



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evaporation, little mobility in the ground and it can be adsorbed from soil.

The product is not soluble in water. In case of large spills, it is a potential source of soil, watercourse and groundwater pollution.

Some product components are dangerous to aquatic organisms and with long-term adverse effects in the aquatic environment.

12.2 PERSISTENCE AND DEGRADABILITY

12.3 BIOACCUMULATIVE POTENTIAL

Not available.

12.4 MOBILITY IN SOIL

12.5 RESULTS OF PBT AND vPvB ASSESSMENT

Not available.

12.6 OTHER ADVERSE EFFECTS

No effect known.

13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS

Prevent contamination of soil, drains and surface waters.

Do not discharge in sewers, tunnels or water courses. Dispose in accordance with local or national regulations via authorised person/licensed waste disposal contractor.

The used product is to be considered a special waste to be classified in accordance to Directives 75/442/EC (on wastes) and 91/689/EC (on hazardous waste) and related legislation.



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14. TRANSPORT INFORMATION

Not classified as hazardous for transport (ADR/RID, ICAO/IATA, IMDG).

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Directives 98/24/EC and all following updates, together with its national realization, about protection of worker safety and health against chemical agent risks

Directive 1999/45/EC and all following updates, together with its national realization, about classification, packaging and labelling of dangerous preparations

Regulation (EC) No 1907/2006, with all National and European related legislations - concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Directives 89/391/EC, 89/654/EC, 89/655/EC, 89/656/EC, 90/269/EC, 90/270/EC, 90/394/EC, 90/679/EC and all following updates, together with its national realization, about improvement of worker safety and health

Directive 1991/156/EC and all following updates, together with national waste legislation

Directive 2001/59/EC and all following updates, together with its national realization, about classification, packaging and labelling of dangerous substances

Directive 2001/58/EC and all following updates, together with its national realization, about safety data sheets

Directive 2004/73/EC (29th adjustment) and all following updates, together with its national realization, about classification, packaging and labelling of dangerous substances

EC directives and national environment protection legislation (air, water and soil)

15.2 CHEMICAL SAFETY ASSESSMENT



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16. OTHER INFORMATION

The mineral base oils contained in this product are severely refined and contain less than 3% DMSO extractables according to IP 346 method, and are therefore not classified as carcinogen according to EC/94/69 Directive, L note (21st adjustment to EC/67/548 Directive).

Sheet complies with the criteria of EC/91/155, EC/99/45, EC/2001/58, EC/2002/59 and EC/2004/73 Directives and following, as well as with Annex II of REACH.

This product must not be used in applications other than recommended without first seeking the advice of the Technical Department.

As regard as the previous version this sheet has been changed at following headings:

ALL - REGULATION (EC) No. 453/2010 ADJUSTMENT

List of abbreviations used:

N.A. Not applicable

N.D. Not available

PBT: Persistent, Bioaccumulative and Toxic

vPvB: Very Persistent and very Bioaccumulative

DNEL: Derived No-Effect Levels

PNEC: Predicted No-Effect Concentration

This product must be stored, handled and used according to correct industrial hygienic practices and in compliance with laws in force.

The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be considered as any guarantee of specific properties.

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