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Product: SUNISO SL 32

MATERIAL SAFETY DATA SHEET

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

1.1 PRODUCT IDENTIFIER

PRODUCT TRADE NAME:

SUNISO SL 32

PRODUCT CODE: 4S73

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.

B-2630 Aartselaar

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

COMPANY IDENTIFICATION:

PETRONAS LUBRICANTS BELGIUM NV

Ingberthoeveweg 4

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 Creation Date: 26/05/2009 Revision Date: 19/07/2012 Pag. 2 /12



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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

The classification of the product has been determined in conformity of Directives 67/548/EEC and 99/45/EC and following adjustments.

2.2 LABEL ELEMENTS

Not applicable.

INDICATIONS OF DANGER

Not applicable.

CONTAINS:

RISK PHRASES

Not applicable.

SAFETY PHASES

Not applicable.

OTHER INDICATIONS:

None.

2.3 OTHER HAZARDS

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

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 MIXTURES

Synthetic esters and additive package containing detergents, dispersants, antioxidants and polymers.

Directive 67/548/EEC:

HAZARDOUS COMPONENTS	EINECS	CAS	REG_NUM	QUANTITY	SIMBOLO	R- PHRASES
Benzenamine, N-phenyl-, reaction products with 2,4,4- trimethylpentene	270-128-1	68411-46-1		<0.5 %	Ν	51/53
N,N-bis(2-ethylhexyl)-((1,2,4- triazol-l-yl)methyl)amine	N.D.	91273-04-0		<0.1 %	C, N	34 - 43 - 51/53

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: >200°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 aereosol. 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: Not defined.

8.2 EXPOSURE CONTROLS

TECHNICAL PRECAUTIONS:

Avoid production and diffusion of mist and aereosol 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

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

CHEMICAL AND PHYSICAL PROPERTIES	VALUE	METHOD
APPEARANCE	Viskeuze vloeistof	
DENSITY 15°C	0.980	ASTM D 4052

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WATER SOLUBILITY	Onoplosbaar	
VISCOSITY @ 40°C	32 cSt	ASTM D 445
VISCOSITY @ 100°C	5,8	ASTM D 445
INITIAL BOILING POINT	>300°C	ASTM D 1120
FLASH POINT	>200°C	ASTM D 92
ODOUR	Not determined	
ODOUR THRESHOLD	Not determined	
рН	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

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

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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 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.

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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.

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION



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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, togeher 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 adjustement) 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

16. OTHER INFORMATION

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.

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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

Caption about heading 3, R-phrases and H-statements:

R	34	Causes burns.
R	43	May cause sensitisation by skin contact.
R	51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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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