



Product: SUNVIS ZF 32

MATERIAL SAFETY DATA SHEET

1. PREPARATION AND COMPANY IDENTIFICATION

PRODUCT TRADE NAME:

SUNVIS ZF 32

PRODUCT CODE: 1SB6

USE OR DESCRIPTION:

Lubricant for hydraulic system.

COMPANY IDENTIFICATION:

PETRONAS LUBRICANTS BELGIUM NV

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COMPETENT PERSON FOR SAFETY DATA OF PRODUCT:

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2. HAZARDS IDENTIFICATION

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

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.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Multi-purpose additive package in mineral oil.

HAZARDOUS	EINECS n°	CAS n°	QUANTITY	SYMBOL	R-PHRASES
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COMPONENTS					
Ester of dithiophosphoric acid	N.D.	N.D.	0.10-0.15 %	N	51/53

OTHER COMPONENTS	EINECS n°	CAS n°	QUANTITY	SYMBOL	R-PHRASES
Severely refined paraffinic mineral oils (CAS n° 64742-54-7 / 64742-65-0; EINECS n° 265-157-1 / 265-169-7)	Mixture	Mixture	>90 %	-	-

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

4. 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.

INHALATION:

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

5. FIRE-FIGHTING MEASURES

FLASH POINT: 210°C (ASTM D 92)

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.

EXPOSURE SPECIAL RISKS:

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

PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Protective clothing complete with autobreathing feature.



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COMBUSTION PRODUCTS:

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

6. ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTION:

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

SPILLAGES:

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.

PERSONAL PRECAUTIONS:

Avoid contact with skin and eyes by wearing appropriate protective clothing. Surfaces on which the product has been spilled may become slippery.

7. HANDLING AND STORAGE

HANDLING:

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

STORAGE:

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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

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:



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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

PROPERTY	VALUE	METHOD
APPEARANCE	Viscous liquid	--
BOILING POINT	>250°C	
VISCOSITY @ 40°C	32 cSt	ASTM D 445
WATER SOLUBILITY	Insoluble	
SPECIFIC GRAVITY @ 15°C (WATER = 1)	0.871 g/cm ³	
FLASH POINT	210°C	ASTM D 92

10. STABILITY AND REACTIVITY

STABILITY:

The product is stable under normal conditions of use.

CONDITIONS TO AVOID:

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

MATERIALS TO AVOID:

Strong oxidizing agents, hard acids and bases.

HAZARDOUS DECOMPOSITION PRODUCTS:

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

11. TOXICOLOGICAL INFORMATION



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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

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.

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

13. DISPOSAL CONSIDERATIONS

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).



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15. REGULATORY INFORMATION

Classification and labelling according to EC regulations:

Not classified as hazardous.

SYMBOL:

Not applicable.

INDICATIONS OF DANGER:

Not applicable.

CONTAINS:

RISK PHRASES:

Not applicable.

SAFETY PHRASES:

Not applicable.

OTHER INDICATIONS:

None.

OTHER ENFORCEABLE LEGISLATION:

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

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

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

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

16. OTHER INFORMATION



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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.

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).

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 hasn't been changed.

Caption about heading 3, R-phrases:

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

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.