

MATERIAL SAFETY DATA SHEET



Date issued: 22/05/2003
Date revised: 28/08/2008

Our reference:

Supplier reference:

Directive 91/155/EEC

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY

1.1 Identification of the substance or preparation:

Product name: Sunoco GL-4 Range

1.2 Use of the substance or preparation:

Transmission oil

1.3 Company/undertaking identification:

Petronas Lubricants Belgium NV
Ingberthoeveweg 4
2630 Aartselaar
Belgium
Phone: +32 - (0)3 - 458 12 30
Fax: +32 - (0)3 - 458 14 78
e-mail: tcs@be.petronas.com

1.4 Emergency telephone:

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

2. HAZARDS IDENTIFICATION

Injurious consequences on health : under normal conditions this product is not harmful.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	EC nr	CAS no	Weight %	Symbol	R - phrases
alkyl phosphate	Confidential	Confidential	0 ... 0,22		34
Long Chain alkenyl amine	Confidential	Confidential	0 ... 0,11	Xn;N	22-35-50
long chain alkyl amine	Confidential	Confidential	0 ... 0,22	T;Xn; Xi;N	22-23/24-34-43-48/23-50
Alkyl dithiothiadiazole	Confidential	Confidential	0 ... 0,11	Xi	43



4. FIRST AID MEASURES

Inhalation:

In case of inhalation of fumes, terminate the exposure and go in de fresh ai
Inhalation of fumes, vapours or aërosols can cause slight irritation of the re

Ingestion:

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Do not give water.

Skin contact:

Remove contaminated clothing and wash thoroughly the skin with soap or detergent and water.
Wash thoroughly the skin with water and soap.

Eye contact:

Flush thoroughly with running water during 15 minutes (including under eyelids).

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

CO2 , foam or dry chemicals.

Extinguishing media which must not be used for safety reasons:

Do not use water jet.

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

Smoke and carbon monoxide may be formed in the event of incomplete combustion.

Special protective equipment for fire-fighters:

Wear an approved autonomous breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Avoid contact with skin and eyes.
Take off immediately all contaminated clothing.

Environmental precautions:

Prevent this product from entering into contact with surface waters

Methods for cleaning up:

To clean the floor and all objects contaminated by this material, use sand, active clay .



7. HANDLING AND STORAGE

7.1 Handling

A sufficient ventilation must guarantee an exposure which do not exceed th
Keep away from combustible material.
Keep away from food, drink and animal feeding stuffs.
Take precautionary measures against static discharges.

7.2 Storage

Keep away from sources of ignition - No smoking.
Store in a closed packing and away from heath sources.
Avoid high temperatures and humidity.
Keep container tightly closed and dry.

7.3 Specific use(s)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Exposure limit values

Sufficient ventilation should be provided in order to maintain fumes concentration in the air bellow the occupational exposure limit.

8.2 Exposure controls

8.2.1 Occupational exposure controls

8.2.1.1 Respiratory protection:

Inhalation of vapours or fumes has to be avoided through accurate ventilation and safe working circumstances.

8.2.1.2 Hand protection:

Wear rubber gloves.

8.2.1.3 Eye protection:

Wear safety glasses if eye contact is possible.

8.2.1.4 Skin protection:

Overall, or similar full-body work clothes, gloves and shoes.

8.2.2 Environmental exposure controls



9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

Appearance: liquid
Odour: petroleum hydrocarbon odo...

9.2 Important health, safety and environmental information

pH: Not applicable
Boiling point / boiling range: Not applicable
Flash point: > 200°C
Explosive properties: No risk of fire or explosion in normal handling conditions.

Oxidizing properties: Not applicable
Vapour pressure: Not applicable
Relative density: Density : approx 0.900
Solubility: - watersolubility: insoluble in water
Solubility: - fatsolubility (solvent-oil): insoluble in water
Partition coefficient (n-octanol/water): Not applicable

9.3 Other information

Miscibility: Mixes with similar oils.
Melting point / melting range: Not applicable
Gas group: Not applicable
Auto-ignition temperature: > 300°C
Other data:

10. STABILITY AND REACTIVITY

- 10.1 Conditions to avoid:** Keep away from heat sources, open flames and other sources of ignition.
- 10.2 Materials to avoid:** Avoid contact with strong oxidants.
- 10.3 Hazardous decomposition products:** Incomplete burning can cause formation of dangerous gasses like CO, CO₂, different KWS, aldehyde and also soot.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Inhalation of dust or smoke may cause irritation of the respiratory tract.
Low odour of acute/systematic toxicity.
Prolonged and repeated contact can degrease the skin and cause dermatitis at the end.
Slight irritation possible.

CHRONIC TOXICITY

Unknown



12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

Aquatic organisms, Algae IC50 (72 h):	Unknown
Aquatic organisms, Daphnia magna EC50 (48h):	Unknown
Aquatic organisms, Fish LC50 (96h):	Unknown
Plants and terrestrial animals:	Unknown
Soil organisms:	Unknown
Impact on sewage treatment plants:	Unknown

12.2 Mobility:

Known or predicted distribution to environmental compartments:
Low range of mobility in the soil. Some components can penetrate the soil and cause pollution of the ground water.

Surface tension:	Not applicable
Absorption/adsorption:	Not applicable

12.3 Persistence and degradability:

Not easily biodegradable.

12.4 Bioaccumulative potential:

Base oil components are probably not dangerous for water organisms. Some additives may be dangerous for the aquatic environment.

12.5 Other adverse effects:

Ozone depletion potential:	Not applicable
Photochemical ozone creation potential:	Not applicable
Global warming potential:	Not applicable

13. DISPOSAL CONSIDERATIONS

Waste disposal methods must comply with national and local disposal or discharge laws.

14. TRANSPORT INFORMATION

UN - number: PRODUCT IS NOT CLASSIFIED

Proper shipping name:

IMDG

Class:
Other applicable information:
Marine pollutant:

ADR/RID

Class:
Other applicable information:

ICAO/IATA

Class:
Other applicable information:

15. REGULATORY INFORMATION



This Safety Data Sheet has been established in accordance with E. C.

Danger symbol:

Risk - sentences:

Safety - sentences:

Please refer to any other national regulations that may be applicable for this product.

Other regulatory information:

Contients " alkyl dithiothiadiazole " (R43). Can cause an allergic reaction.

16. OTHER INFORMATION

Training advice:

Recommended restrictions on use:

Further information (written references and/or technical contact point):

FULL TEXT OF RISK PHRASES APPEARING IN SECTION 2

R 22 : Harmful if swallowed

R 23/24 : Toxic by inhalation and in contact with skin.

R 34 : causes burns

R 35 : Causes severe burns.

R 43 : May cause sensitisation by skin contact.

R 48/23 : Toxic: danger of serious damage to health by prolonged exposure through inhalation.

R 50 : Very toxic to aquatic organisms

Source of key data used to compile the data sheet:

Information added, deleted or revised:

These data are based upon our knowledge at this moment. It is however no guarantee for product properties and do not have a contractual agreement.

The buyer assumes all risk in connection with the use and handling of the material.

The seller assumes no responsibility or liability in connection with the information supplied in this sheet or for any damage or injury caused by the material; reasonable safety procedures should be followed.

The seller assumes no responsibility for injury or damage caused by use of the material, even if reasonable safety procedures are followed.

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