



## Product: ENERGY FORZA 20W50

### MATERIAL SAFETY DATA SHEET

## 1. PREPARATION AND COMPANY IDENTIFICATION

PRODUCT TRADE NAME:

**ENERGY FORZA 20W50**

PRODUCT CODE: 1S37

USE OR DESCRIPTION:

Lubricant for petrol and diesel engines.

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 FOR SAFETY DATA OF PRODUCT:

Herwig De Landtsheer

e-mail: tcs@be.petronas.com

EMERGENCY 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

## 2. HAZARDS IDENTIFICATION

This product is not considered hazardous for people according to EC directives, but prolonged or repeated skin contact sometimes may cause irritations and dermatitis (see heading 11, too).

It contains skin sensitizer components, but their quantity is insufficient to classify it.

It is classified harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment (see heading 12, too).

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Additive package containing detergents, dispersants, antioxidants and polymers.

| HAZARDOUS COMPONENTS        | EINECS n° | CAS n°     | QUANTITY    | SYMBOL | R-PHRASES |
|-----------------------------|-----------|------------|-------------|--------|-----------|
| Zinc alkyl dithiophosphates | 272-028-3 | 68649-42-3 | 0.9 - 1.5 % | Xi, N  | 41-51/53  |



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|  |                          |                                |                |    |       |
|--|--------------------------|--------------------------------|----------------|----|-------|
| Calcium phenate sulfide  | 291-829-9                | 90480-91-4                     | 1 - 2 %        | -  | 53    |
| Polyolefin<br>polyaminesuccinimide,<br>polyol  | Polymer                  | Polymer                        | 2 - 3 %        | -  | 53    |
| Calcium long chain alkyl<br>aryl sulphonates   | 290-636-7 &<br>271-877-7 | 90194-27-7<br>& 68610-84-<br>4 | 0.1 - 0.8<br>% | Xi | 43-53 |
| Severely refined paraffinic<br>mineral oils (CAS n° 64742-<br>54-7 / 64742-65-0; EINECS<br>n° 265-157-1 / 265-169-7) | Mixture                  | Mixture                        | 86-92 %        | -  | -     |

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: 220°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:



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Protective clothing complete with autobreathing feature.

### 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 <sup>3</sup> |
| oil mists      | TLV/STEL      | 10    | mg/m <sup>3</sup> |

### 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, ...).



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### 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

| PROPERTY                            | VALUE                   | METHOD      |
|-------------------------------------|-------------------------|-------------|
| APPEARANCE                          | Viscous liquid          | --          |
| VISCOSITY @ 100°C                   | 19.5 cSt                | ASTM D 445  |
| WATER SOLUBILITY                    | Insoluble               |             |
| INITIAL BOILING POINT               | >300°C                  | ASTM D 1120 |
| SPECIFIC GRAVITY @ 15°C (WATER = 1) | 0.896 g/cm <sup>3</sup> |             |
| FLASH POINT                         | 220°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, nitrogen and hydrogen sulfide.



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### 11. TOXICOLOGICAL INFORMATION

#### 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:

The product contains sensitizing substances, but is not classified in this way. Product is not an irritant, but prolonged or repeated contacts may cause irritations or dermatitis.

### 12. ECOLOGICAL INFORMATION

This product is harmful to aquatic organisms and it may cause long-term adverse effects in the aquatic environment (calculation method).

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. It is insoluble in water.

### 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).

### 15. REGULATORY INFORMATION

Classification and labelling according to EC regulations:



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### SYMBOL:

Not applicable.

### INDICATIONS OF DANGER:

Not applicable.

### CONTAINS:

### RISK PHRASES:

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### SAFETY PHRASES:

S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

### OTHER INDICATIONS:

Contains calcium alkaryl sulphonate. May produce an allergic reaction.

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

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

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



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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.

Caption about heading 3, R-phrases:

R 41 Risk of serious damage to eyes.

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.

R 53 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.