



# SAFETY DATA SHEET

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## Gulf Harmony HLPD 46

**PRODUCT CODE**  
**3537**

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier:

- **Product name** : Gulf Harmony HLPD 46
- **Viscosity Grade** : ISO VG 46

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against:

- **Relevant identified uses** : Hydraulic oil.
- **Uses advised against** : This oil should not be used for any other purpose than the intended use as an hydraulic oil without expert advice.

#### 1.3. Details of the supplier of the Safety Data Sheet:

- **Supplier** : Gulf Oil Nederland B.V.  
Ambachtsweg 31 -  
1785 AJ - Den Helder - Nederland  
Tel: +31 223 634567  
E-mail: technicalsupport@gulf.nl  
Internet: www.gulf.nl

#### 1.4. Emergency telephone number:

- **Phone number(s)** : +31 223 634567

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture:

- **Classification according to Directive 1999/45/EC** : This product does not meet the classification requirements of the current European legislation.

#### 2.2. Label elements:

- **Safety advices** : Contains Reaction products of bis(2-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (branched). May produce an allergic reaction. Do not empty into drains ; dispose of this material and its container in a safe way.

- **2.3. Other hazards** : Injection under the skin can occur when using high pressure equipment.  
Overexposure to oil mist may cause respiratory irritations.  
Spillage of lubricating oils will make surfaces slippery.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures:

- **Description of the mixture** : Mixture of highly refined mineral oils (PCA-content < 3% - IP 346) and additives.  
Product is not considered to be hazardous but contains hazardous components.

#### • Composition of the mixture:

Substance name	Contents	CAS No	EC No	Annex No	Ref REACH	Classification
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	60 - 70 %	72623-87-1	276-738-4	649-483-00-5	-----	Not classified (DSD/DPD)
Lubricating oils (petroleum), C20-C50, hydrotreated neutral oil-based, high-viscosity.	30 - 40 %	72623-85-9	276-736-3	649-481-00-4	-----	Not classified (DSD/DPD)
Reaction products of bis(2-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14 alkyl (	0,1 - 1 %	-----	931-384-6	-----	01-2119493620-38	Xn; R22 Xi; R41 R43 N; R51-53

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branched)

**3.3. Other information** : For full text of all R-phrases: see SECTION 16.**SECTION 4: First aid measures****General advice** : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).**4.1. Description of first aid measures:**

- **After inhalation** : Assure fresh air breathing. If you feel unwell, seek medical advice.
- **After contact with skin** : Remove contaminated clothing and shoes. Wash skin thoroughly with mild soap and water. Never use kerosine or gasoline for cleaning the skin.
- **After contact with the eyes** : Rinse immediately with plenty of water. Seek medical attention if irritation develops.
- **After ingestion** : Do not induce vomiting. Seek medical attention immediately.

**4.2. Most important symptoms and effects, both acute and delayed:**

- **After exposure** : No acute or delayed symptoms or effects are anticipated if first aid treatment is applied and is effective.

**4.3. Indication of any immediate medical attention and special treatment needed:**

- **After exposure** : If injected under the skin when using high pressure equipment, send casualty immediately to a hospital, even when there are few or no symptoms.

**SECTION 5: Fire-fighting measures****5.1. Extinguishing media:**

- **Suitable extinguishing media** : Water fog. Carbon dioxide. Foam. Dry chemical product.
- **Unsuitable extinguishing media** : Do not use a heavy water stream.

**5.2. Special hazards arising from the substance or mixture:**

- **In the event of a fire** : Under fire conditions, hazardous fumes will be present.

**5.3. Advice for firefighters:**

- **Protective actions** : Avoid fire-fighting water to enter environment.
- **Special protective equipment for fire-fighters** : Do not enter fire area without proper protective equipment, including respiratory protection. Wear self-contained breathing apparatus, rubber boots and thick rubber gloves.
- **Surrounding fires** : Use water spray or fog for cooling exposed containers.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures:**

- **For non-emergency personnel** : Evacuate unnecessary personnel.
- **For emergency responders** : Equip cleanup crew with proper protection. Wear suitable protective clothing, gloves and eye or face protection. Eliminate every possible source of ignition.

**6.2. Environmental precautions:**

- **In case of accidental spills** : Avoid release to the environment. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Notify authorities if liquid enters sewers or public waters.

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### SECTION 6: Accidental release measures (continued)

#### 6.3. Methods and material for containment and cleaning up:

- **Appropriate containment techniques** : Clean up any spills as soon as possible, using an absorbent material to collect it.
- **Appropriate clean-up procedures** : Clean up even minor leaks or spills and spread granular absorbent promptly. Collect spills and put it into appropriated container.

- 6.4. **Reference to other sections** : See also sections 8 & 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling:

- **Measures to prevent fire, aerosol and dust generation** : Keep away from sources of ignition. No naked lights. No smoking. Proper grounding procedures to avoid static electricity should be followed.
- **Measures to protect the environment** : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- **Advice on general occupational hygiene** : When using, do not eat, drink or smoke. Wash hands and other exposed areas with soap and water before leaving work.

#### 7.2. Conditions for safe storage, including any incompatibilities:

- **Technical protective measures** : Local exhaust and general ventilation must be adequate to meet exposure standards.
- **Conditions of storage** : Store this product in a dry location where it can be protected from the elements. Do not store near oxidizing agents or acidic material. Store at temperatures not exceeding 50 °C/122 °F.
- **Specific designs for storage rooms or vessels** : Store in tightly closed, properly ventilated containers away from heat, sparks, open flame, strong oxidizers, radiations, and other initiators.

#### 7.3. Specific end use(s):

- **Recommendations** : See Product Data Sheet for detailed information.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters:

- **Occupational exposure limit values** : United Kingdom: Occupational Exposure Standard (OES) of 5 mg/m<sup>3</sup>, 8-hour time-weighted average reference period for oil mist.  
The American Conference of Governmental Industrial Hygienists (ACGIH) has assigned mineral oil mist a threshold limit value (TLV) of 5 mg/m<sup>3</sup> as a Time Weighted Average (TWA) for a normal 8-hour workday and a 40-hour workweek and a short-term exposure limit (STEL) of 10 mg/m<sup>3</sup> for periods not to exceed 15 minutes. Exposures at the STEL concentration should not be repeated more than four times a day and should be separated by intervals of at least 60 minutes. [ACGIH 1994, p. 28]
- **Biological limit values** : No data available.

#### 8.2. Exposure controls:

##### 8.2.1 Appropriate engineering controls:

- **Technical measures to prevent exposure** : Use adequate ventilation to keep oil mist below applicable standard.

##### 8.2.2 Individual protection measures, such as personal protective equipment:

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- **Eye / face protection** : Chemical goggles or safety glasses.(EN 166)
- **Skin protection** : Wear suitable protective clothing. (EN 465, EN 466 or EN 467).
- **Hand protection** : Wear suitable gloves resistant to chemical penetration. (EN 374)  
Use neoprene or rubber gloves.
- **Respiratory protection** : The use of Filtertype A (EN 141) is recommended If exceeding the Occupational Exposure Limit.
- **Other** : Do not wear leather soled shoes.

**8.2.3 Environmental exposure controls:**

- **Measures to prevent exposure** : Avoid release to the environment.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties:**

- **Appearance:**
- **Physical state** : Oily liquid.
- **Colour** : Slightly yellow.
- **Odour** : Light odour of petroleum.
- **Flash point (ASTM-D92)** : >185°C
- **Density @ 15°C (ASTM-D4052)** : 878 kg/m<sup>3</sup>
- **Solubility(ies)** : Insoluble.
- **Viscosity @ 40°C (ASTM-D445)** : 41.4-50.6 cSt

**9.2. Other information:**

- **Pour point (ASTM-D97)** : <-15°C

**SECTION 10: Stability and reactivity**

- 10.1 **Reactivity** : No data available.
- 10.2 **Chemical stability** : Stable under normal conditions.
- 10.3 **Possibility of hazardous reactions** : None under normal conditions.
- 10.4 **Conditions to avoid** : Extremely high or low temperatures.
- 10.5 **Incompatible materials** : Strong oxidizing agents.
- 10.6 **Hazardous decomposition products** : None under normal conditions.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects:**

- **Acute toxicity** : No specific toxicity data on this product available.
- **Irritation** : Not expected to be irritant.
- **Corrosivity** : No adverse health effects were noted.
- **Sensitisation** : No sensitization effects known.

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## SECTION 11: Toxicological information (continued)

- **Repeated dose toxicity** : Not applicable.
- **Carcinogenicity** : This product contains mineral oils which are considered to be severely refined and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP 346 test.
- **Mutagenicity** : Not expected to be mutagenetic.
- **Toxicity for reproduction** : Not expected to be toxic.

### 11.2. Information on likely routes of exposure:

- **After ingestion** : Ingestion may cause nausea, vomiting and diarrhoea.
- **After inhalation** : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
- **After skincontact** : Not expected to present a significant skin hazard under anticipated conditions of normal use.
- **After eyecontact** : Slight eye irritant upon direct contact.

### 11.3. Symptoms related to the physical, chemical and toxicological characteristics:

- **General** : No adverse symptoms/effects were noted.

### 11.4. Delayed and immediate effects as well as chronic effects from short and long-term exposure:

- **General** : No adverse symptoms/effects were noted.

11.5. **Other toxicological information** : No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity:

- **Acute toxicity** : No specific toxicity data on this product available.
- **Chronic toxicity** : No specific toxicity data on this product available.

### 12.2. Persistence and degradability:

- **Biodegradation** : No data available.

### 12.3. Bioaccumulative potential:

- **Partition coefficient: n-octanol/water** : Not determined.
- **Bioconcentration factor (BCF)** : Not determined.
- **Bioaccumulation** : Not determined.

### 12.4. Mobility in soil:

- **Mobility** : It is to be expected small mobility in soil. Some or a few components may get into the soil and may cause pollution of ground water.

12.5 **Results of PBT and vPvB assessment** : Not applicable.

12.6 **Other adverse effects** : Spills may contaminate water supplies / pollute public waters.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods:

- **Waste disposal** : Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Recover waste liquids for recycling/re-use. See Directive 2001/118/EC.

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- **Waste Code European Waste List** : 13 02 05 - mineral-based non-chlorinated engine, gear and lubricating oils.  
15 01 10 - packaging containing residues of or contaminated by dangerous substances.

**SECTION 14: Transport information**

Not regulated.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:****15.1.1 National regulations:**

- **Germany** : Water Hazard Class: 1 - slightly hazardous to water
- **Netherlands** : Water pollution effect indication {11}: Slightly harmful to aquatic organisms.  
Abatement effort: B

**15.1.2 International Regulations:**

- **European Inventory of Existing Commercial Chemical Substances (EINECS)** : All components listed.
- **Australian Inventory of Chemical Substances (AICS)** : All components are in compliance with chemical notification requirements in Australia.
- **Canadian Environmental Protection Act (CEPA)** : All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List (DSL).
- **USA Toxic Substances Control Act** : All components of this material are on the US TSCA Inventory or are exempt.

(TSCA)

- 15.2. Chemical safety assessment** : Not applicable.

**SECTION 16: Other information**

- **Indication of changes** : Revision according to Regulation (EU) No 453/2010 amending Regulation (EC) No 1907/2006.
- **Abbreviations and acronyms** : ACGIH = American Conference of Industrial Hygienists  
CLP = Classification and Labelling of Substances and Preparations  
DOT = Department of Transport  
EC = European Commission. EN = European Norm  
IARC= International Agency for Research on Cancer  
IP = Institute of Petroleum. ISO = International Organization for Standardization  
NLGI = National Lubricating Grease Institute  
PCA = Polycyclic Aromatics  
SAE = Society of Automotive Engineers  
TLV = Threshold Limit Value. TWA = Time Weighted Average  
VG = Viscosity Grade
- **Key literature references and sources for data** : Concawe Report 01/53, Concawe Report 01/54, Concawe Report 05/87.  
Regulations (EC) No 1907/2006, 1272/2008 & 453/2010 of the European Parliament and of the Council.

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- **List of relevant R-phrases**
  - : R22 : Harmful if swallowed.
  - R41 : Risk of serious damage to eyes.
  - R43 : May cause sensitization by skin contact.
  - R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- **Training advice**
  - : See Product Data Sheet for detailed information.

The contents and format of this SDS are in accordance with COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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**End of document****Gulf Oil Nederland B.V.**

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