



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Hydraulic Oil HLPD 46

Print date: 29.05.2015

Product code: 732009

Page 1 of 7

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

##### 1.1. Product identifier

ADDINOL Hydraulic Oil HLPD 46

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

###### Use of the substance/mixture

Hydraulic fluid(s) and filler(s).

##### 1.3. Details of the supplier of the safety data sheet

Company name:	ADDINOL Lube Oil GmbH	
	Gebäude 4609	
Street:	Am Haupttor	
Place:	D-06237 Leuna	
Telephone:	+49 (0) 3461 845-0	Telefax: +49 (0) 3461 845-555
e-mail:	info@addinol.de	
Contact person:	Application Technology	
Internet:	www.addinol.de	
Responsible Department:	ADDINOL Application Technology	

##### 1.4. Emergency telephone number:

+49 (0) 3461-845201 - This number is serviced during office hours.

#### SECTION 2: Hazards identification

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

###### Classification according to Regulation (EC) No. 1272/2008 [CLP]

This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

##### 2.2. Label elements

###### Special labelling of certain mixtures

EUH208	Contains Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). May produce an allergic reaction.
EUH210	Safety data sheet available on request.

###### Additional advice on labelling

According to EC directives or the corresponding national regulations the product does not have to be labelled.

##### 2.3. Other hazards

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.  
Spilled product must not leak into the ground.  
Do not allow uncontrolled leakage of product into the environment.

#### SECTION 3: Composition/information on ingredients

##### 3.2. Mixtures



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Hydraulic Oil HLPD 46

Print date: 29.05.2015

Product code: 732009

Page 2 of 7

#### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
931-384-6	Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)	
	Xn - Harmful, Xi - Irritant, N - Dangerous for the environment R22-41-43-51-53	< 0,30 %
	Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, Aquatic Chronic 2; H302 H318 H317 H411	
01-2119493620-38		

Full text of R-, H- and EUH-phrases: see section 16.

#### Further Information

DMSO-Extrakt &lt; 3 %, IP 346.

Concentration of PCBs &lt; 1mg/kg.

Classification system: The classification corresponds to the current EC lists and is completed by information from specialist literature and company information.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Self-protection of the first aider. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

#### After inhalation

Move victim to fresh air. Put victim at rest and keep warm. Seek medical attention if problems persist.

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Change contaminated clothing. Use skin protection ointment after cleaning. In case of skin irritation, seek medical treatment.

#### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting.

Rinse mouth thoroughly with water. Call a physician immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

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

First Aid, decontamination, treatment of symptoms.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Foam. Extinguishing powder. Carbon dioxide (CO<sub>2</sub>). Atomized water.

#### Unsuitable extinguishing media

High power water jet.



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Hydraulic Oil HLPD 46

Print date: 29.05.2015

Product code: 732009

Page 3 of 7

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

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>).  
Sulfur oxides. carbon black.

#### **5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.

#### **Additional information**

Co-ordinate fire-fighting measures to the fire surroundings. Use water spray/stream to protect personnel and to cool endangered containers. In case of fire and/or explosion do not breathe fumes. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

High slip hazard because of leaking or spilled product. Remove all sources of ignition. Wear breathing apparatus if exposed to vapours/dusts/aerosols.

#### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Prevent spread over a wide area (e.g. by containment or oil barriers).

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated objects and areas thoroughly observing environmental regulations.

#### **6.4. Reference to other sections**

Refer to the provisions listed in Sections 8, 12 and 13.

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Work in well-ventilated zones or use proper respiratory protection. Avoid oil mist. If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid contact with skin, eye and clothing.

##### **Advice on protection against fire and explosion**

Keep away from sources of ignition. - No smoking. When hot, product develops flammable vapours.

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

##### **Requirements for storage rooms and vessels**

Keep the packing dry and well sealed to prevent contamination and absorption of humidity. Keep container tightly closed in a cool place.

##### **Advice on storage compatibility**

Keep away from food, drink and animal feedingstuffs.  
Keep away from: Oxidizing agents.

##### **Further information on storage conditions**

Protect against: UV-radiation/sunlight. frost.  
Recommended storage temperature: 10 - 30°C

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

Further information: see technical data sheet.

### **SECTION 8: Exposure controls/personal protection**

#### **8.1. Control parameters**



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Hydraulic Oil HLPD 46

Print date: 29.05.2015

Product code: 732009

Page 4 of 7

#### Additional advice on limit values

Recommended limit value for oil mist

TWA: 5 mg/m<sup>3</sup>STEL: 10 mg/m<sup>3</sup>

The product does not contain any relevant quantities of substances with legally established exposure limitation.

#### 8.2. Exposure controls



#### Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

#### Protective and hygiene measures

Wash hands before breaks and after work. Take off immediately all contaminated clothing. Wash contaminated clothing prior to re-use. Do not eat, drink, smoke or sneeze at the workplace.

#### Eye/face protection

Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

#### Hand protection

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): DIN EN 374

Duration of wearing with permanent contact: 480 min

Suitable material: NBR (Nitrile rubber).

Thickness of glove material: 0.7 mm.

Wearing time with occasional contact (splashes): 30 min

Suitable material: NBR (Nitrile rubber).

Thickness of glove material: 0.4 mm

Protect skin by using skin protective cream.

#### Skin protection

Wear suitable protective clothing. Change contaminated clothing. Do not put any product-impregnated cleaning rags into your trouser pockets.

#### Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	yellow
Odour:	like: mineral oil.

#### Test method

#### Changes in the physical state

Initial boiling point and boiling range:	not determined
Pour point:	-28 °C ASTM D 7346
Flash point:	242 °C DIN EN ISO 2592

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**ADDINOL Hydraulic Oil HLPD 46**

Print date: 29.05.2015

Product code: 732009

Page 5 of 7

Ignition temperature: not determined  
Density (at 15 °C): 0,863 g/cm<sup>3</sup> DIN 51757  
Water solubility: virtually insoluble  
Viscosity / kinematic:  
(at 40 °C) 46 mm<sup>2</sup>/s ASTM D 7042

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Stable with proper care and handling.

**10.2. Chemical stability**

The product is chemically stable when handled and stored under normal conditions.

**10.3. Possibility of hazardous reactions**

No decomposition if used as intended.

**10.4. Conditions to avoid**

Refer to chapter 7 No further action is necessary.

Do not overheat to avoid decomposition by heat.

**10.5. Incompatible materials**

Reacts with : Oxidizing agents, strong.

**10.6. Hazardous decomposition products**

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>).  
Sulfur oxides. carbon black.

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

No data available

Mixture not tested.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
	Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched)				
	oral	ATE	500 mg/kg		

**Irritation and corrosivity**

Irritant effect on the eye: mild irritant.

Irritant effect on the skin: Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

**Sensitising effects**

Contains: < 0,30% Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). May produce an allergic reaction.

**Severe effects after repeated or prolonged exposure**

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

**Carcinogenic/mutagenic/toxic effects for reproduction**

No data available

**Specific effects in experiment on an animal**

No data available



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Hydraulic Oil HLPD 46

Print date: 29.05.2015

Product code: 732009

Page 6 of 7

#### SECTION 12: Ecological information

##### 12.1. Toxicity

No data available

Mixture not tested.

##### 12.2. Persistence and degradability

Not easily bio-degradable (according to OECD-criteria). Do not allow to enter into surface water or drains.

##### 12.3. Bioaccumulative potential

No data available

##### 12.4. Mobility in soil

If product enters soil, it will be mobile and may contaminate groundwater. Due to its low solubility in water the product is almost completely mechanically separated in biological waste water treatment plants.

##### 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

##### 12.6. Other adverse effects

No data available

##### **Further information**

Do not allow uncontrolled leakage of product into the environment.

#### SECTION 13: Disposal considerations

##### 13.1. Waste treatment methods

###### **Advice on disposal**

Must not be disposed of with domestic refuse. Do not allow to enter into surface water or drains.

###### **Waste disposal number of waste from residues/unused products**

130110 OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19); waste hydraulic oils; mineral based non-chlorinated hydraulic oils  
Classified as hazardous waste.

###### **Contaminated packaging**

Contaminated packages must be completely emptied and can be re-used following proper cleaning.  
Dispose of waste according to applicable legislation. Packing which cannot be properly cleaned must be thrown away.

#### SECTION 14: Transport information

##### **Land transport (ADR/RID)**

14.1. UN number: -

##### **Inland waterways transport (ADN)**

14.1. UN number: -

##### **Marine transport (IMDG)**

14.1. UN number: -

##### **Air transport (ICAO)**

14.1. UN number: -

##### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ADDINOL Hydraulic Oil HLPD 46

Print date: 29.05.2015

Product code: 732009

Page 7 of 7

#### **14.6. Special precautions for user**

Unless specified otherwise, general measures for safe transport must be followed.

#### **14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

not applicable

#### **Other applicable information**

No dangerous good in sense of these transport regulations.

### SECTION 15: Regulatory information

#### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

##### **National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

#### **15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### **Relevant R-phrases (Number and full text)**

- |    |   |
|----|---|
| 22 | Harmful if swallowed.   |
| 41 | Risk of serious damage to eyes.                                 |
| 43 | May cause sensitisation by skin contact.                        |
| 51 | Toxic to aquatic organisms.                                     |
| 53 | May cause long-term adverse effects in the aquatic environment. |

#### **Relevant H- and EUH-phrases (Number and full text)**

- |        |   |
|--------|---|
| H302   | Harmful if swallowed.   |
| H317   | May cause an allergic skin reaction.  |
| H318   | Causes serious eye damage.  |
| H411   | Toxic to aquatic life with long lasting effects.  |
| EUH208 | Contains Reaction products of bis(4-methylpentan-2-yl)dithiophosphoric acid with phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched). May produce an allergic reaction. |
| EUH210 | Safety data sheet available on request.   |

#### **Further Information**

This mixture is classified as not hazardous according to Regulation (EC) 1272/2008 [GHS].

These given data only refer to the named product. If the product is used together with other materials or in manufacturing processes the data might not be applicable any more. The data are based on today's state of our knowledge and experience. They are, however, no guarantee of any specific product properties and do not established any legally valid contractual relationship.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*