

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Hydrauliköl HVLP-D 46**

Revision date: 03.07.2024

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

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**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Hydraulic oil.

Product Categories [PC]: PC 17 Hydraulic fluids.

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

Company name: HSR GmbH

Street: Oderstraße 3

Place: D-47506 Neukirchen-Vluyn

Telephone: +49 (0) 2845 2950 0

Telefax: +49 (0) 2845 2950 480

E-mail: info@hsr.de

Web: www.hsr.de

**1.4. Emergency telephone****number:**

Giftinformationszentrum - Nord: +49 (0) 551 19240

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

**2.2. Label elements****Additional advice on labelling**

Identification is not obligatory.

**2.3. Other hazards**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

Do not handle until all safety precautions have been read and understood.

Discharge into the environment must be avoided.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Contains: Mineral oil, Additive.

**Further Information**

The mineral oils in the product contain &lt; 3 % DMSO-extract (IP 346).

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

First aider: Pay attention to self-protection!

Move victim out of danger zone.

Remove contaminated, saturated clothing immediately.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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**After inhalation**

Avoid oil mist  
Move victim to fresh air. Put victim at rest and keep warm.  
Get medical advice/attention if you feel unwell.

**After contact with skin**

After contact with skin, wash immediately with: Water and soap.  
Immediately remove any contaminated clothing, shoes or stockings.  
In case of skin irritation, seek medical treatment.

**After contact with eyes**

Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
In case of troubles or persistent symptoms, consult an ophthalmologist.

**After ingestion**

If swallowed, rinse mouth with water (only if the person is conscious).  
Do NOT induce vomiting. Call a physician immediately.  
No administration in cases of unconsciousness or cramps.

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

No information available.  
In all cases of doubt, or when symptoms persist, seek medical advice.

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

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Foam, Extinguishing powder, Water mist, Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media**

High power water jet.

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

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>), Sulphur dioxide (SO<sub>2</sub>), Phosphorus oxides, Carbon monoxide.

**5.3. Advice for firefighters**

In case of fire and/or explosion do not breathe fumes.  
In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Move undamaged containers from immediate hazard area if it can be done safely.  
Use water spray jet to protect personnel and to cool endangered containers. 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****General advice**

Provide adequate ventilation.  
Respiratory protection necessary at: aerosol or mist generation. (See section 8.)  
Avoid contact with skin and eyes. Wear personal protection equipment.  
In case of leakage, eliminate all ignition sources. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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**6.2. Environmental precautions**

- Do not allow to enter into surface water or drains.
- Do not allow to enter into soil/subsoil.

**6.3. Methods and material for containment and cleaning up****Other information**

- Prevent spread over a wide area (e.g. by containment or oil barriers).
- Take up mechanically, placing in appropriate containers for disposal.
- Remove from the water surface (e.g. skimming, sucking).
- High slip hazard because of leaking or spilled product.
- Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
- Treat the recovered material as prescribed in the section on waste disposal.

**6.4. Reference to other sections**

- Personal protection equipment: refer to chapter 8.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

- Do not breathe vapour/aerosol. Provide adequate ventilation.
- Avoid contact with skin and eyes. Remove contaminated, saturated clothing immediately.
- For industrial purposes only.

**Advice on protection against fire and explosion**

- No special fire protection measures are necessary.
- Avoid oil mist
- When hot, product develops flammable vapours.
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Fire class B (DIN EN 2).

**Advice on general occupational hygiene**

- Do not eat, drink, smoke or sneeze at the workplace.
- Avoid contact with skin, eyes and clothes.
- Protect skin by using skin protective cream.
- Take off contaminated clothing and wash it before reuse.
- Wash hands before breaks and after work.
- After cleaning apply high-fat content skin care cream.
- Do not put any product-impregnated cleaning rags into your trouser pockets.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

- Only use containers specifically approved for the substance/product.
- Keep container tightly closed and in a well-ventilated place.
- Always close containers tightly after the removal of product.
- Recommended storage temperature: 5 - 30 °C. Do not store at temperatures over: 40 °C

**Hints on joint storage**

- Do not store together with: Oxidising agent,
- Keep away from food, drink and animal feedingstuffs.

**Further information on storage conditions**

- Protect against: Heat, Light, moisture.
- Protect from direct sunlight.

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

- Hydraulic oil.
- Observe technical data sheet.

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## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Additional advice on limit values

Air limit values: Mineral oil mist

Limit value type (country of origin): US-OSHA PEL-Value: 5 mg/m<sup>3</sup>

Limit value type (country of origin): ACGIH STEL-Value: 10 mg/m<sup>3</sup>

### 8.2. Exposure controls

#### Appropriate engineering controls

Provide adequate ventilation.

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

##### Eye/face protection

Suitable eye protection: Tightly sealed safety glasses. (EN 166)

In case of increasing hazard add: Eye-shade.

##### Hand protection

Tested protective gloves are to be worn: German Industry Norms (DIN) / European Norms (EN): EN 420, EN ISO 374.

Suitable material: NBR (Nitrile rubber), PVC (polyvinyl chloride), FKM (fluororubber).

Required properties: liquid-tight.

penetration time (maximum wearing period): > 240 min.

Thickness of glove material: 0,4 mm

Before using check leak tightness / impermeability.

##### Skin protection

Handling larger quantities: Wear suitable protective clothing.

##### Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

Respiratory protection necessary at: exceeding exposure limit values, insufficient ventilation, aerosol or mist generation.

Suitable respiratory protective equipment: A2, A2/P2 Combination filter device (DIN EN 141)..

##### Environmental exposure controls

Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

## SECTION 9: Physical and chemical properties

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

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

#### Test method

#### Changes in the physical state

Melting point/freezing point:	No data available.
Boiling point or initial boiling point and boiling range:	> 320 °C
Pour point:	< -30 °C DIN ISO 3016
Flash point:	> 220 °C DIN ISO 2592

#### Flammability

Solid/liquid: Based on available data, the classification criteria are not met.

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#### Explosive properties

Based on available data, the classification criteria are not met.

Lower explosion limits:	approx. 0,6 vol. %
Upper explosion limits:	approx. 6,5 vol. %
Auto-ignition temperature:	> 220 °C DIN 51794
Decomposition temperature:	No data available.

#### Oxidizing properties

Based on available data, the classification criteria are not met.

pH-Value:	not applicable
Viscosity / kinematic: (at 40 °C)	approx. 46 mm²/s DIN 51562
Water solubility:	practically insoluble
Vapour pressure: (at 20 °C)	< 0,1 hPa
Density (at 15 °C):	approx. 0,85 - 0,87 g/cm³ DIN 51757

#### 9.2. Other information

##### Information with regard to physical hazard classes

Sustaining combustion:	No data available
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##### Other safety characteristics

Solvent content:	0%
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##### Further Information

none

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No risks worthy of mention.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

Decomposition takes place from temperatures above: 150 °C

#### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

Do not mix with: Oxidizing agents, strong.

#### 10.4. Conditions to avoid

storage stability: Do not store at temperatures over: 40 °C

This material is combustible, but will not ignite readily.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

#### 10.5. Incompatible materials

Oxidizing agents, strong.

#### 10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>), Sulphur dioxide (SO<sub>2</sub>), Phosphorus oxides, Carbon monoxide.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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**Acute toxicity**

Based on available data, the classification criteria are not met.

**ATEmix calculated**

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 5 mg/l

**Irritation and corrosivity**

Irritant effect on the skin: On short hand contact: non-irritant.

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

Irritant effect on the eye: slightly irritant but not relevant for classification.

**Sensitising effects**

Based on available data, the classification criteria are not met.

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

Based on available data, the classification criteria are not met.

The mineral oils in the product contain &lt; 3 % DMSO-extract (IP 346).

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

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

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**11.2. Information on other hazards****Endocrine disrupting properties**

Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information****12.1. Toxicity**

No information available.

**12.2. Persistence and degradability**

Not easily bio-degradable (according to OECD-criteria).

**12.3. Bioaccumulative potential**

No information available.

**12.4. Mobility in soil**

State of matter: liquid at room temperature.

If product enters soil, it will be mobile and may contaminate groundwater

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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

No information available.

**Further information**

Discharge into the environment must be avoided.

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

**SECTION 13: Disposal considerations**

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#### 13.1. Waste treatment methods

##### Disposal recommendations

Do not allow to enter into surface water or drains. Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)". Dispose of waste according to applicable legislation.

The waste key according to the European Waste Catalogue (EWC number) refers to the real wastes origin and therefore is not product- but use-oriented.

Consult the local waste disposal expert about waste disposal.

Observe mixture permissions according to "Altölverordnung (Waste oil directive)".

##### List of Wastes Code - 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; hazardous waste

##### List of Wastes Code - used product

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; hazardous waste

##### List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

##### Contaminated packaging

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

#### SECTION 14: Transport information

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

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

##### Inland waterways transport (ADN)

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

##### Marine transport (IMDG)

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

##### Air transport (ICAO-TI/IATA-DGR)

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

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**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Handling (Transport information): No special precautionary measures are necessary. See protective measures under point 7 and 8.

**14.7. Maritime transport in bulk according to IMO instruments**

No information available.

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

Information according to Directive 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

**Additional information**

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH).

**National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

**Additional information**

Restricted to professional users.

The receiver of our product is singularly responsible for adhering to existing laws and regulations. Observe in addition any national regulations!

**15.2. Chemical safety assessment**

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

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 8,9,13,14,15,16.

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

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