

## OEL HLP SYNT 46

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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: HANSA-FLEX AG

Street: Zum Panrepel 44

Place: D-28307 Bremen

Telephone: +49 (0) 421 48907 0

Telefax: +49 (0) 421 48907 48

e-mail: info@hansa-flex.com

Internet: www.hansa-flex.de

**1.4. Emergency telephone**

+49 (0) 551-19240

**number:**

Giftinformationszentrum NORD GIZ-NORD

## 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****Regulation (EC) No. 1272/2008****Special labelling of certain mixtures**

EUH210

Safety data sheet available on request.

**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: Synthetic base oils (ester), Additive.

**Hazardous components**

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	GHS Classification	
	Mineral oil - unspecified (< 20,5 mm <sup>2</sup> /s bei 40 °C)	1,0 - 5,0 %
	Asp. Tox. 1; H304	
68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	1,0 - 5,0 %
	270-128-1	01-2119491299-23
	Aquatic Chronic 3; H412	

Full text of H and EUH statements: see section 16.

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**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).

**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.  
Change contaminated clothing.  
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. Seek medical advice 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, Sand, 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>), 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**

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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.

### **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**

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 (e.g. 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.  
 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  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
 Fire class B (DIN EN 2).

### **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, Frost, moisture.  
 Protect against direct sunlight.

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

Hydraulic oil.  
 Observe technical data sheet.

## SECTION 8: Exposure controls/personal protection

### **8.1. Control parameters**

#### **Additional advice on limit values**

Air limit values:

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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**
**Protective and hygiene measures**

- 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 immediately all contaminated clothing.
- 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.

**Eye/face protection**

- Suitable eye protection: Tightly sealed safety glasses. (DIN EN 166)
- In case of increasing hazard add: Eye-shade.

**Hand protection**

- Recommendation: Wear protective gloves. German Industry Norms (DIN) / European Norms (EN): DIN 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: Combination filter device (DIN EN 141)..

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

Physical state:	liquid
Colour:	light yellow
Odour:	characteristic

**Test method**

pH-Value: not applicable

**Changes in the physical state**

Initial boiling point and boiling range:	> 200 °C
Pour point:	< -54 °C DIN ISO 3016
Flash point:	> 230 °C DIN ISO 2592

**Explosive properties**

No data available.

Ignition temperature: (Base oil) &gt; 300 °C

**Oxidizing properties**

No data available.

Vapour pressure: < 0,1 hPa  
(at 20 °C)Density (at 15 °C): approx. 0,91 - 0,92 g/cm<sup>3</sup> DIN 51757

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Water solubility: practically insoluble  
 Viscosity / kinematic: approx. 46 mm<sup>2</sup>/s DIN 51562  
 (at 40 °C)

**9.2. Other 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: 120 °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>), Carbon monoxide.

**SECTION 11: Toxicological information**
**11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

There are no data available on the mixture itself.

**Acute toxicity**

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
	Mineral oil - unspecified (< 20,5 mm <sup>2</sup> /s bei 40 °C)				
	oral	LD50 > 5000 mg/kg	Rat		
	dermal	LD50 > 5000 mg/kg	Rabbit		
	inhalation (4 h) aerosol	LC50 5,53 mg/l	Rat		
68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene				
	oral	LD50 > 5000 mg/kg	Rat		

**Irritation and corrosivity**

Irritant effect on the skin: On short hand contact: Not an 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.

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**Sensitising effects**

Respiratory or skin sensitisation: no danger of sensitization. No known symptoms to date.

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

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.

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

There are no data available on the mixture itself.

**12.2. Persistence and degradability**

Easily biodegradable (concerning to the criteria of the OECD).

Method: OECD 301 B: Biological degradation: &gt; 70 %.

**12.3. Bioaccumulative potential**

No information available.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	5,1

**BCF**

CAS No	Chemical name	BCF	Species	Source
68411-46-1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene	1730		

**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**

PBT: not applicable.

vPvB: not applicable.

**12.6. 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**
**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.

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

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**

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130112 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste hydraulic oils; readily biodegradable hydraulic oils; hazardous waste

**List of Wastes Code - used product**

130112 OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 05, 12 AND 19); waste hydraulic oils; readily biodegradable 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)**

**14.1. UN number:** not relevant

**14.2. UN proper shipping name:** not relevant

**14.3. Transport hazard class(es):** not relevant

**14.4. Packing group:** not relevant

**Other applicable information (land transport)**

No dangerous good in sense of these transport regulations.

**Inland waterways transport (ADN)**
**Other applicable information (inland waterways transport)**

No information available.

**Marine transport (IMDG)**
**Other applicable information (marine transport)**

No dangerous good in sense of these transport regulations.

**Air transport (ICAO-TI/IATA-DGR)**
**Other applicable information (air transport)**

No dangerous good in sense of these transport regulations.

**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. Transport in bulk according to Annex II of Marpol and the IBC Code**

No information available.

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

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

**National regulatory information**

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

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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): 1,2,3,5,7,8,9,10,11,12,15.

**Relevant H and EUH statements (number and full text)**

H304	May be fatal if swallowed and enters airways.
H412	Harmful to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.

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