

# Material Safety Data Sheet

according to Regulation (EC) 1907/2006



Product name : PANOLIN HLP SYNTH 46  
Revision : 14.10.2010      Version : 1.0.1  
Print date : 04.01.2011

## 01. Identification of the substance/preparation and of the company/undertaking

**Product name :** PANOLIN HLP SYNTH 46 (35050)  
**Use of the substance / preparation :** Hydraulic oil  
**Manufacturer/Supplier :** Panolin AG  
**Street/P.O.Box :** Bläsimühle  
**Country code/Postal code/Town/City :** 8322 Madetswil  
**Country :** Switzerland  
**Telephone :** +41(0)449566565

**Supplier in USA :** PANOLIN AMERICA INC  
**Street/P.O.Box :** 4882 McGrath Street, Suite 220  
**Country code/Postal code/Town/City :** Ventura CA 93003  
**Country :** USA  
**Telephone :** +1(805) 676-1193  
**Telefax :** +1(805) 676-1194

**Contact :** info@panolin.com  
**Emergency information :** Swiss toxicological information center (24h)  
Phone: +41 44 251 51 51

## 02. Hazards identification

### Hazard designation

unclassified.

### Particular information pertaining specific risk for human and environment

The product is not classified according to the calculation method of the General Classification guideline for preparations of the EU in the latest version.

### Additional information

None.

## 03. Composition/information on ingredients

### Chemical characterization

Mixture of different substances.

### Hazardous components

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None.

### Additional information

None.

## 04. First-aid measures

### After inhalation

Remove concerned person out of danger area. Call a doctor, should the air passages be affected.

### After skin contact

Wash away with soap and water and rinse.

### After eye contact

Flush with plenty of water (10 - 15 min.).

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### After ingestion

If symptoms occur consult a doctor

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### 05. Fire-fighting measures

Suitable extinguishing media Foam, CO<sub>2</sub>, powder extinguisher, water haze, water spray jet.

#### Unsuitable extinguishing media

Waterjet.

#### Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged

In case of fire toxic gases may be formed.

#### Special protective equipment

In case of fire do not breathe fumes When extinguishing fires, use breathing apparatus with an independent source of air.

#### Additional information

Cool endangered containers with water in case of fire. Do not allow the quenching water into the sewage system. Under extreme heating in closed containers polymerisation, decomposition Pressure formation and bursting of containers possible.

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### 06. Accidental release measures

#### Personal precautions

Particular danger of slipping on leaked/spilled product.

#### Environmental precautions

Take up with a liquid absorbing material and proceed according to the waste disposal regulations. Do not empty into drains.

#### Methods for cleaning up/collecting

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

#### Additional information

There will be no release of hazardous substances

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### 07. Handling and storage

#### Information for safe handling

Prevent formation of oil mist.

#### Information about protection against explosions and fires

No particular measures required.

#### Requirements to be met by storerooms and containers

No specific requirement.

#### Information about separation of incompatible products

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials. Store the foodstuffs separately.

#### Further information about storage conditions

Do not store outside. Avoid heating over 40°C.

**Storage class (VCI) :** 10

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### 08. Exposure controls/personal protection

#### Additional information about engineering measures

No further details, see Section 7.

#### Personal protective equipment

##### General protective and hygiene measures

The usual precautionary measures for the handling of chemicals have to be observed. Do not eat or drink during work - no smoking. Wash hands before breaks and after work. Keep away from food, drink and animal feeding stuff

##### Respiratory protection

None, but avoid breathing vapours if possible.

##### Hand protection

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Use protective gloves.

### Eye protection

Use safety glasses.

### Body protection

No particular measures required.

## 09. Physical and chemical properties

### Image

**Form :** Liquid.  
**Colour :** Yellow.  
**Odour :** Characteristic.

### Relevant safety data

<b>Pourpoint</b>			-57	°C
<b>Boiling point / range :</b>	( 1013 hPa )	>	250	°C
<b>Decomposition point / range :</b>			no data available	
<b>Flash point :</b>		>	210	°C
<b>Density :</b>	( 20 °C )	=	0.9	g/cm <sup>3</sup>
<b>Solubility in water :</b>	( 20 °C )	<	0.5	% b.w.
<b>Viscosity :</b>	( 40 °C )		47	mm <sup>2</sup> /s

## 10. Stability and reactivity

### Conditions to avoid

None, if handled according to order.

### Materials to avoid

Reaction with oxidizing agents possible. Reactions with strong acids or alkalines possible.

### Hazardous decomposition products

No dangerous reactions known. When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

## 11. Toxicological information

### Toxicological tests

#### LD50/LC50 values that are relevant for classification

Specification : LD-50  
Routes of entry : oral  
Test species : Rat  
Value / dosage : > 2000 mg/kg

### Experience on practice

This product is unlikely to harm health, given normal and proper handling and hygienic precautions.

### Additional toxicological information

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC).

## 12. Ecological information

### Details on elimination (persistence / degradability)

Possibility to eliminate the product out of sewage : Oil and fat separators.

#### Biological degradation / elimination

Readily biodegradable (OECD 301 B)

### Additional ecological information

#### General ecological information

Do not empty into waters or drains.

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### 13. Disposal considerations

#### **Product**

##### **Recommendation**

In accordance with local official regulations.

##### **Waste key**

Waste code (91/689/EEC) : 13 01 12\*

#### **Contaminated packaging**

Empty containers should be scrapped or reconditioned. Containers, which have not been emptied properly must be treated as special waste.

##### **Recommendation**

Disposal, in accordance with local official regulation.

##### **Recommended detergent**

Water, possibly with the addition of detergent.

### 14. Transport information

The product does not constitute a hazardous substance in national / international road, rail, sea and air transport.

#### **Land transport ADR/RID**

##### **Classification**

**Class :** -

#### **Maritime transport IMDG/GGVSea**

##### **Classification**

**IMDG-Code :** -

#### **Air transport ICAO-TI and IATA-DGR**

##### **Classification**

**Class :** -

##### **Packaging**

### 15. Regulatory information

#### **Classification according to EC directives**

Regulatory information

#### **National regulatory information**

##### **Emission control act ("TA-Luft")**

Sum organic substances class I : < 5 %

##### **Water pollution classification**

Class : 1 according VwVwS

### 16. Other information

The details in this material safety data sheet satisfy national and EC legislation.

#### **Further information**

##### **R-Phrases of components**

R-Phrases of components

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.