

Trade name: **Hydrostar HLP 46**

Substance number

Version: 4 / GB

Date revised: 17.01.2022

Replaces Version: 3 / GB

Print date: 17.01.22

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

1.1. Product identifier

Hydrostar HLP 46 (Art. No. 21770)

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

Use of the substance/preparation

Hydraulic oil

Uses advised against

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

EMKA Schmiertechnik GmbH
Schmalbachstraße 19
D-74626 Bretzfeld-Schwabbach
Telephone no.: + 49 7946 944700

E-mail address of person responsible for this SDS info@emka-oil.de

1.4. Emergency telephone number

+49 511 19240 (24h/EN/DE) Giftinformationszentrale-Nord

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

2.2. Label elements

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Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

Supplemental information

EUH210

Safety data sheet available on request.

2.3. Other hazards

Product can form a film on the water surface that can prevent oxygen exchange. Refer to section 11, 12 and 15.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients (Regulation (EC) No. 1272/2008)

2,6-Di-tert-butylphenol

CAS No.	128-39-2				
EINECS no.	204-884-0				
Registration no.	01-2119490822-33				
Concentration	>= 0,1	<	0,25	%	
Classification (Regulation (EC) No. 1272/2008)	Skin Irrit. 2		H315		
	Aquatic Acute 1		H400		
	Aquatic Chronic 1		H410		

Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Chronic 1	H410	M = 1
Aquatic Acute 1	H400	M = 1

Other information

All concentrations are units of weight percent for liquids, and unit of volume percent for gaseous products. Other substances that are not classified to be hazardous, up to 100%. Complete text of hazard statements in chapter 16. Mixtures are not subject to registration. The registration numbers of the ingredients in this mixture (if present) have been listed in item 3. The mineral oils in the product contain less than 3% DMSO extract (IP 346).

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of persistent symptoms consult doctor. Remove soiled or soaked clothing immediately, do not allow to dry. Never give anything by mouth to an unconscious person.

After inhalation

Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

After skin contact

After contact with skin, wash immediately with plenty of water and soap. Consult a doctor if skin irritation persists. Remove contaminated clothing.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

After ingestion

Do not induce vomiting - aspiration hazard. Summon a doctor immediately.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

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

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Foam, Dry powder, Carbon dioxide, Water spray jet

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Pyrolysis products; Hydrocarbons; Carbon dioxide (CO₂); Carbon monoxide (CO); Hydrogen sulfide (H₂S); Nitrogen oxides (NO_x); Phosphorus oxides; Smoke.

5.3. Advice for firefighters

Special protective equipment for fire-fighting

In case of combustion use a suitable breathing apparatus. Wear full protective suit. Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Exclude sources of ignition and ventilate the area. Avoid contact with skin, eyes and clothing. High risk of slipping due to leakage/spillage of product. Avoid breathing vapours.

6.2. Environmental precautions

Do not allow to enter drains or waterways. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid formation of oil dust. Hot product develops flammable vapours. Handle and open container with care. Avoid skin and eye contact.

Advice on protection against fire and explosion

Keep away from sources of heat and ignition. Do not smoke. Take precautionary measures against static discharge.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

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Value < 50 °C

Requirements for storage rooms and vessels

Keep only in original packaging.

Hints on storage assembly

Keep away from flammable substances.

Storage class according to TRGS 510

Storage class according to 10 Flammable liquids
TRGS 510

Further information on storage conditions

Keep container tightly closed and dry. Keep in a cool place

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

Distillates (petroleum), hydrotreated heavy paraffinic

Type	Ölnebel
Value	5 mg/m ³
Remarks:	TWA

Other information

There are not known any further control parameters.

8.2. Exposure controls

Exposure controls

Technical measures for preventing exposition. Organisational measures for preventing exposition.
Provide adequate ventilation. The type of personal protective equipment must be selected depending on the concentration and quantity of the hazardous substance at the workplace.

General protective and hygiene measures

Observe the usual precautions for handling chemicals. Store work clothing separately. Wash hands before breaks and after work. Cloths contaminated with product should not be kept in trouser pockets. Do not eat, drink or smoke during work time.

Respiratory protection

Not necessary, but do not inhale vapours. In situations where misting or flying may occur use appropriate certified respirators. Short term: filter apparatus, Filter A/P2

Hand protection

For this purpose, protective gloves are suitable, for instance, made by the company KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail: vertrieb@kcl.de with the following specification (tested as per EN374):

Camatril (Item No: 731; Material: Nitrile; Minimum layer thickness: 0.33 mm; Burst time: 480 min)

Dermatril (Item No: 740; Material: Nitrile; Minimum layer thickness: 0.11 mm; Burst time: 30 min)

The protective gloves to be used must comply with the specifications of the EU directive 89/686/EEC and the standard EN374 derived from it. The above mentioned burst times are based on laboratory measurements of KCL made as per EN 374 and are applicable only for this KCL product.

Preventive skin protection by protective skin ointment.

Eye protection

Tightly fitting safety glasses

Body protection

Clothing as usual in the chemical industry. Protective gloves resistant to chemicals

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Form	liquid		
Colour	light yellow to brownish		
Odour	characteristic		
pH value			
Remarks	Not applicable		
Melting point			
Remarks	not determined		
Freezing point			
Remarks	not determined		
Initial boiling point and boiling range			
Value	>	320	°C
Flash point			
Value		240	°C
Method	DIN ISO 2592		
Pour Point			
Value		-30	°C
Method	DIN/ISO 3016		
Upper/lower flammability or explosive limits			
Lower explosion limit		0,6	%(V)
Upper explosion limit		6,5	%(V)
Vapour pressure			
Remarks	not determined		
Vapour density			
Remarks	not determined		
Density			
Value	0,859	to	0,869 g/cm ³
Temperature	15	°C	
Solubility in water			
Remarks	insoluble		
Partition coefficient: n-octanol/water			
Remarks	not determined		
Ignition temperature			
Remarks	not determined		
Viscosity			
kinematic			
Value	45		mm ² /s
Temperature	40	°C	
kinematic			
Value	7,0		mm ² /s
Temperature	100	°C	

SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

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Stable under recommended storage and handling conditions (see section 7).

10.3. Possibility of hazardous reactions

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

10.4. Conditions to avoid

Oxidising agents

10.6. Hazardous decomposition products

Refer to section 5.3.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

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

Acute dermal toxicity

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

Acute inhalational toxicity

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

Skin corrosion/irritation

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

Serious eye damage/irritation

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

Sensitization

Remarks Based on available data, the classification criteria are not met.
Remarks May cause sensitization by skin contact.

Mutagenicity

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

Reproductive toxicity

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

Carcinogenicity

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

Specific Target Organ Toxicity (STOT)

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

Aspiration hazard

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

Other information

There are no details for the formulation/mixture itself.

It was classified in accordance with the calculation method of the directive (EC) No. 1272/2008 [CLP].

This mixture does not contain any substances with endocrine disrupting properties.

SECTION 12: Ecological information

12.1. Toxicity

General information

There are no data available on the mixture itself. The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as dangerous for the environment.

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12.2. Persistence and degradability

General information

There are no data available on the mixture itself.

Biodegradability

Remarks

The product is not readily biodegradable according to OECD criteria but is inherently biodegradable.

12.3. Bioaccumulative potential

General information

There are no data available on the mixture itself.

Partition coefficient: n-octanol/water

Remarks

not determined

12.4. Mobility in soil

General information

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

Evaluation of persistence and bioaccumulation potential

The product contains no PBT or vPvB substances.

12.6. Other adverse effects

General information

This mixture does not contain any substances with endocrine disrupting properties.

General information / ecology

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

EWC waste code 13 01 10* mineral based non-chlorinated hydraulic oils

Dispose of as hazardous waste.

EWC waste code 13 01 10* mineral based non-chlorinated hydraulic oils

Disposal as per EC directive 75/442/ECC and 91/689/ECC on waste and hazardous waste in the current versions as amended from time to time.

Disposal recommendations for packaging

EWC waste code 13 01 10* mineral based non-chlorinated hydraulic oils

Uncontaminated packaging may be taken for recycling.

EWC waste code 13 01 10* mineral based non-chlorinated hydraulic oils

Packaging that cannot be cleaned should be disposed off as product waste.

SECTION 14: Transport information

Land transport ADR/RID

Non-dangerous goods

14.1. UN number

UN -

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

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Class -
14.4. Packing group
Packing group -
14.5. Environmental hazards
-

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

14.1. UN number
UN -
14.2. UN proper shipping name
-
14.3. Transport hazard class(es)
Class -
14.4. Packing group
Packing group -

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

14.1. UN number
UN -
14.2. UN proper shipping name
-
14.3. Transport hazard class(es)
Class -
14.4. Packing group
Packing group -
14.5. Environmental hazards
-

Information for all modes of transport

14.6. Special precautions for user
The relevant transport regulations have to be considered.

Other information

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
no

SECTION 15: Regulatory information

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Hazard statements listed in Chapter 3

H315	Causes skin irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Skin Irrit. 2	Skin irritation, Category 2

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

Safety data sheet in accordance with regulation (EC) No 1907/2006

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