

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 24.09.2007

Revision: 24.09.2007

1 Identification of the substance/preparation and of the company/undertaking

- **Product details**
- **Trade name:** *Hydralube BIO HEES 46*
- **Application of the substance / the preparation** *Hydraulic fluid*
- **Manufacturer/Supplier:**
*SWD Lubricants GmbH & Co.KG
Am Schlütershof 26
D-47059 Duisburg
Tel : 0049 (0)203 31919-0
Fax : 0049 (0)203 31919-99
E-mail: info@swd-gmbh.de*
- **Further information obtainable from:**
*Department product safety
folkert.gaebler@swd-gmbh.de*
- **Information in case of emergency:** *Emergency No. 0049(0)228 19240 - Poison Center Bonn.*

2 Hazards identification

- **Hazard description:** *Not applicable.*
- **Information concerning particular hazards for human and environment:**
*The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
When appropriately and responsibly handled, the product should not be dangerous for the environment.
In case of spillage or inappropriate use, it may however impair water and soil properties.*
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

3 Composition/information on ingredients

- **Chemical characterization:** *Präparation of biological oils and specific additives.*
- **CAS No. Description**
68002-79-9 Trimethylolpropantriolate
- **Identification number(s)**
- **EINECS Number:** *268-093-2*

4 First aid measures

- **General information:** *Take affected persons out of danger area and lay down.*
- **After inhalation:** *Supply fresh air; consult doctor in case of complaints.*
- **After eye contact:** *Rinse opened eye for several minutes under running water.*
- **After swallowing:** *If symptoms persist consult doctor.*

5 Fire-fighting measures

- **Suitable extinguishing agents:** *CO₂, powder or water spray. Fight larger fires with water spray.*
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
*Carbon monoxide (CO)
Nitrogen oxides (NO_x)*
- **Protective equipment:** *Wear self-contained respiratory protective device.*

(Contd. on page 2)

GB

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Trade name: Hydralube BIO HEES 46

(Contd. of page 1)

- **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

- **Person-related safety precautions:** Keep people at a distance and stay on the windward side.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Additional information:** See Section 7 for information on safe handling.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Avoid the formation of oil haze.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Obey the water protective regulation for handling and storage of water endangering products (in Germany VwVwS).
- **Information about storage in one common storage facility:** Store away from oxidizing agents.
- **Further information about storage conditions:** Protect from contamination.

8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Ingredients with limit values that require monitoring at the workplace:**

Oilfog and Oilfumes	TLV-8h-TWA	5mg/m ³
	TLV-15min-STEEL	10mg/m ³
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not required.
- **Protection of hands:**
Preventive skin protection by use of skin-protecting agents is recommended.
Check the permeability prior to each anewed use of the glove.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 3)

Safety Data Sheet
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Revision: 24.09.2007

Trade name: Hydralube BIO HEES 46

(Contd. of page 2)

- **Eye protection:** Goggles recommended during refilling
- **Body protection:** Protective work clothing

9 Physical and chemical properties

· General Information

Form:	Fluid
Colour:	Brown
Odour:	Characteristic

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Pour point	- 51°C (DIN ISO 3016)

· **Flash point:** Not applicable.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

Lower:	Not determined
Upper:	Not determined

· **Density:** Not determined.

· Solubility in / Miscibility with

water:	Not miscible or difficult to mix.
Organic solvents:	0.0 %

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** Reacts with strong oxidizing agents.
- **Dangerous decomposition products:** Carbon monoxide and carbon dioxide

11 Toxicological information

- **Acute toxicity:**
- **LD/LC50 values relevant for classification:** Rat oral : > 2000 mg/kg (Concawe Product dossier 01/54)
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
The substance is not subject to classification according to the latest version of the EU lists.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
The Product is not considered to be a carcinogen. The oil-components contains less than 3 % DMSO extract measured by IP 346. It needs not to be classified as T, R45. (nota L)

GB

(Contd. on page 4)

Safety Data Sheet
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Revision: 24.09.2007

Trade name: Hydralube BIO HEES 46

(Contd. of page 3)

12 Ecological information

- **Information about elimination (persistence and degradability):** Easily biodegradable
- **Behaviour in environmental systems:**
- **Mobility and bioaccumulation potential:** Not worth-mentioning accumulating in organisms
- **Ecotoxicological effects:**
- **Aquatic toxicity:**
The product spreads out on the surface of the water. A small fraction of the constituents will be dissolved. It prevents the solution of oxygen and can cause the death of water organisms.
- **Remark:** The product is easily knocked down from a water phase by a mechanical separator.
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation** Delivery of waste oil to officially authorized collectors only.

· **European waste catalogue**

13 01 12	readily biodegradable hydraulic oils
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- **Uncleaned packaging:**
- **Recommendation:**
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -

- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

15 Regulatory information

- **Labelling according to EU guidelines:**
The substance is not subject to classification according to EU lists and other sources of literature known to us.
Observe the general safety regulations when handling chemicals.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing MSDS:** Abteilung Produktsicherheit
- **Contact:** Hr. Mohr