

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.04.2017

Version number 12

Revision: 06.04.2017

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

- **1.1 Product identifier**
- **Trade name:** Oest Hydrauliköl H-LP 46
- **Article number:** 36145
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Hydraulic fluid
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Georg Oest Mineraloelwerk GmbH & Co. KG  
Georg - Oest - Str. 4  
D-72250 Freudenstadt  
  
Tel.: +49 (0) 7441 / 539-0
- **Further information obtainable from:**  
Tel.: +49 (0) 7441 / 539 - 0  
e-mail: productsafety@oest.de
- **1.4 Emergency telephone number:**  
Tel.: +49 (0) 7441 / 539 - 0 (08:00 a.m. - 5:00 p.m.) or European emergency call 112

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified according to the CLP regulation.
- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Additional information:**  
The mineral oils in this product contain < 3% DMSO-extract (IP 346).  
EUH210 Safety data sheet available on request.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

**Dangerous components:**

CAS: 64741-88-4 EINECS: 265-090-8 Index number: 649-454-00-7 Reg.nr.: 01-2119488706-23-00XX	Distillates (petroleum), solvent-refined heavy paraffinic substance with a Community workplace exposure limit	50-100%
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- **Additional information:** For the wording of the listed hazard phrases refer to section 16.



## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.04.2017

Version number 12

Revision: 06.04.2017

Trade name: Oest Hydrauliköl H-LP 46

(Contd. of page 1)

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### \* SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special measures required.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Storage class:** 10
- **7.3 Specific end use(s)** No further relevant information available.

### \* SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

(Contd. on page 3)

GB

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 07.04.2017

Version number 12

Revision: 06.04.2017

**Trade name: Oest Hydrauliköl H-LP 46**

(Contd. of page 2)

**· 8.1 Control parameters**

**· Ingredients with limit values that require monitoring at the workplace:**

**64741-88-4 Distillates (petroleum), solvent-refined heavy paraffinic**

TLV-ACGIH (EU) Short-term value: 5 mg/m<sup>3</sup>

**· PNECs**

**64741-88-4 Distillates (petroleum), solvent-refined heavy paraffinic**

PNEC 9.33 mg/kg (secondary poisoning)

**· Additional information:** The lists valid during the making were used as basis.

**· 8.2 Exposure controls**

**· Personal protective equipment:**

**· General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

**· Respiratory protection:**

Not necessary if room is well-ventilated.

Use suitable respiratory protective device only when aerosol or mist is formed.

**· Protection of hands:**



Protective gloves

**· Material of gloves** Nitrile rubber, NBR

**· Penetration time of glove material**

longterm contact:

NBR: thickness:0,425 mm; break trough: 240 - 480 min.

shortterm contact:

NBR: thickness 0,12; break trough: 10 - 30 min.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**· Eye protection:**



Goggles recommended during refilling

**· Body protection:** Protective work clothing

**SECTION 9: Physical and chemical properties**

**· 9.1 Information on basic physical and chemical properties**

**· General Information**

**· Appearance:**

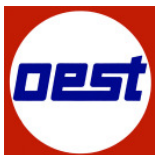
<b>Form:</b>	Fluid
<b>Colour:</b>	Light yellow
<b>· Odour:</b>	Characteristic
<b>· Odour threshold:</b>	Not determined.

**· pH-value:** Not determined.

**· Change in condition**

<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.

(Contd. on page 4)



## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.04.2017

Version number 12

Revision: 06.04.2017

Trade name: Oest Hydrauliköl H-LP 46

(Contd. of page 3)

· <b>Flash point:</b>	220 °C (DIN ISO 2592)
· <b>Flammability (solid, gaseous):</b>	Not applicable.
· <b>Ignition temperature:</b>	
<b>Decomposition temperature:</b>	Not determined.
· <b>Self-igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density:</b>	0.860 g/cm <sup>3</sup> 15 °C (DIN 51757)
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Not miscible or difficult to mix.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	46 mm <sup>2</sup> /s 40 °C (DIN 51562T1)
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
<b>VOC (EC)</b>	0.00 %
· <b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

**64741-88-4 Distillates (petroleum), solvent-refined heavy paraffinic**

Oral	LD50	2000 mg/kg (rat) (OECD 401)
Dermal	LD50	> 3000 mg/kg (rat)
Inhalative	LC50	> 5.53 mg/l (rat) (OECD 411)

(Contd. on page 5)



## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 07.04.2017

Version number 12

Revision: 06.04.2017

Trade name: Oest Hydrauliköl H-LP 46

(Contd. of page 4)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

- **Subacute to chronic toxicity:**

**64741-88-4 Distillates (petroleum), solvent-refined heavy paraffinic**

Oral	LOAEL subchronic	125 mg/kg/d (rat) (OECD 408, read across)
Dermal	NOAEL subchronic	> 2000 mg/kg/d (rat) (OECD 411)
Inhalative	NOAEL subchronic	50-150 mg/m <sup>3</sup> 6h/d (rat)

- **Toxicokinetics, metabolism and distribution** No further relevant information available.
- **Repeated dose toxicity** No further relevant information available.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
No further relevant information available.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

## SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

**64741-88-4 Distillates (petroleum), solvent-refined heavy paraffinic**

EC50	> 10000 mg/l (daphnia) (OECD 203)
	> 100 mg/l (fish) (OECD 203)
NOEC	≥ 100 mg/l (algae) (OECD 203)
	10 mg/l (daphnia) (OECD 211)
	> = 100 mg/l (fish) (OECD 203)

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **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.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

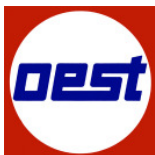
## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Must be specially treated adhering to official regulations.

- **European waste catalogue**

13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils
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(Contd. on page 6)



## Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 12

Revision: 06.04.2017

**Trade name: Oest Hydrauliköl H-LP 46**

(Contd. of page 5)

15 01 10\* packaging containing residues of or contaminated by hazardous substances

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

- |                                                                                  |                 |
|----------------------------------------------------------------------------------|-----------------|
| · <b>14.1 UN-Number</b>                                                          |                 |
| · <b>ADR, ADN, IMDG, IATA</b>                                                    | Void            |
| · <b>14.2 UN proper shipping name</b>                                            |                 |
| · <b>ADR, ADN, IMDG, IATA</b>                                                    | Void            |
| · <b>14.3 Transport hazard class(es)</b>                                         |                 |
| · <b>ADR, ADN, IMDG, IATA</b>                                                    |                 |
| · <b>Class</b>                                                                   | Void            |
| · <b>14.4 Packing group</b>                                                      |                 |
| · <b>ADR, IMDG, IATA</b>                                                         | Void            |
| · <b>14.5 Environmental hazards:</b>                                             |                 |
| · <b>Marine pollutant:</b>                                                       | No              |
| · <b>14.6 Special precautions for user</b>                                       | Not applicable. |
| · <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>                                                  | Void            |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 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 SDS:** productsafety@oest.de

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

(Contd. on page 7)



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vPvB: very Persistent and very Bioaccumulative

· **\* Data compared to the previous version altered.**

(Contd. of page 6)

GB