

# Safety Data Sheet

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

according to Regulation (EU) No 453/2010

Article no.: 48830 DIVINOL HVI ISO 15  
Date of print: 14.01.2013 Revision date: 12.10.2012  
version: 1.1 Date of issue: 12.10.2012

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

### 1.1. Product identifiers:

Article no. (manufacturer / supplier): 48830  
Identification of the substance or preparation: DIVINOL HVI ISO 15  
HYDRAULIC OIL

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

#### Relevant identified uses

Lubricant

### 1.3. Details of the supplier of the safety data sheet

#### Manufacturer / Supplier:

Zeller+Gmelin GmbH & Co. KG  
Schlossstr. 20  
73054 Eisligen  
GERMANY

Phone: +49 (0) 7161 / 802-0  
Fax: +49 (0) 7161 / 802-290

#### Dept. responsible for information (Product Safety):

Phone: +49 (0) 7161 / 802-297  
Fax: +49 (0) 7161 / 802-599  
E-mail: u.allmendinger@zeller-gmelin.de

#### Emergency telephone:

Phone: +44 (0) 870 600 6266 (UK Poisons Emergency number)  
Phone: +49 (0) 7161 / 802-400 (German)

## 2. Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Directive 67/548/EEC or 1999/45/EC

This preparation is not classified as dangerous according to 1999/45/EC.

### 2.2. Label elements

#### Labelling (67/548/EEC or 1999/45/EC)

#### Hazard Statements:

n.a.

#### Safety precautions:

n.a.

#### contains:

n.a.

#### Special provisions concerning the labelling of certain mixtures

n.a.

### 2.3. Other hazards

No information available.

## 3. Composition/ Information on ingredients

### 3.2. Mixtures

#### chemical characterization (preparation)

**Description:** Mineral oil-based formulation. Mineral oil with DMSO extract < 3 % as measured by IP 346.

#### Hazardous ingredients:

**Classification according to EC regulation 1272/2008 (CLP):**

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EC No: CAS No.: INDEX no.:	REACH No: chemical name: classification:	% by weight Remark:
30795-64-3	2-propenoic acid, 2-methyl-, dodecyl ester, polymer with methyl 2-methyl-2-propenoate Eye Irrit. 2 H319	2,5 - 5

#### Classification according to Directive 67/548/EEC or 1999/45/EC

EC No: CAS No.: INDEX no.:	REACH No: Identification of the hazard: classification:	% by weight Remark:
30795-64-3	2-propenoic acid, 2-methyl-, dodecyl ester, polymer with methyl 2-methyl-2-propenoate Xi; R36	2,5 - 5

#### Additional information

Full text of R-phrases: see section 16.

Full text of H-phrases: see section 16.

## 4. First-aid measures

### 4.1. Description of first aid measures:

#### General information:

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in unconscious position and seek medical advice. Remove contaminated clothing immediately and dispose off safely.

#### After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

#### In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap.

#### In case of eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

#### After ingestion:

If swallowed, rinse mouth with water (only if the person is conscious). Consult physician immediately. Keep victim calm. Do not induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

#### Treatment:

No information available.

## 5. Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

alcohol resistant foam, Extinguishing powder, Carbon dioxide.

#### Extinguishing media which must not be used for safety reasons:

High power water jet.

### 5.2. Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases:

Dense black smoke occurs during fire. Hazardous decomposition products: carbon monoxide, Carbon dioxide. Inhaling hazardous decomposing products can cause serious health damage.

### 5.3. Special protective equipment for firefighters:

In case of fire: Wear self-contained breathing apparatus.

#### Additional information:

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

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## 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

See protective measures under point 7 and 8.

### 6.2. Environmental measures

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

### 6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleansing agents. Do not use solvents.

### 6.4. Reference to other sections

Observe protective provisions (see chapter 7 and 8).

## 7. Handling and storage

### 7.1. Precautions for safe handling

#### Advices on safe handling

Follow the legal protection and safety regulations. Personal protective equipment: refer to chapter 8. Do not eat, drink or smoke when using this product. Open and handle container with care. Provide for good room ventilation. Avoid the formation of aerosol.

#### Precautions against fire and explosion:

No special measures are required.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storerooms and containers:

Protect against: frost. Protect from heat and direct sunlight. Keep container tightly closed in a cool, well-ventilated place.

### 7.3. Specific end use(s)

Observe technical data sheet.

## 8. Exposure controls / Personal protection

### 8.1. Control parameters

EC No:	Description:	type:	Limit value	unit
CAS No.:			STEL (EC) TWA (EC)	

-

#### Additional information

TWA (EC): Occupational exposure limit value

STEL (EC): Short term occupational exposure limit value

### 8.2. Exposure controls

refer to chapter 7. No further action is necessary.

#### Occupational exposure controls:

##### Respiratory protection:

When splashes or fine mist form, a permitted breathing apparatus suitable for these purposes must be used.

##### Hand protection:

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber). Breakthrough times and swelling properties of the material must be taken into consideration. Recommended glove articles: DIN EN 374. Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

##### Eye protection:

Wear closely fitting protective glasses in case of splashes.

##### Body protection:

Protective clothing.

##### Protective measures:

After contact clean skin thoroughly with water and soap oder use appropriate cleanser. When using do not eat, drink, smoke, sniff.

#### Environmental exposure controls

Do not allow to enter into surface water or drains. refer to chapter 7. No further action is necessary.

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## 9. Physical and chemical properties

### 9.1. information on basic physical and chemical properties

**Appearance:**

**Physical state:** liquid  
**Colour:** yellow  
**Odour:** typical

Safety relevant basis data	unit	Method	Remark:
Flash point:	> 160 °C	DIN EN ISO 2592	
lower explosion limit:	0,6 Vol-%		
Upper explosion limit:	6,5 Vol-%		
Vapour pressure (at temperature in °C): 20	< 0,1 mbar		
density at 15 °C:	0,87 g/cm <sup>3</sup>	DIN 51757	
Water solubility (g/l):	insoluble		
pH (at temperature in °C): 20	n.a.		
Viscosity (at temperature in °C): 40	15 mm <sup>2</sup> /s	DIN 51562	
boiling temperature / boiling range:	>300 °C		
Pourpoint:	<-30		
VOC % by weight:	0,0		

### 9.2. Other information:

No information available.

## 10. Stability and reactivity

### 10.1. Reactivity

No information available.

### 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

### 10.3. Materials to avoid

Keep away from: Oxidising agent.

### 10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures.

## 11. Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity**

Toxicological data are not available.

**Irritant and corrosive effects**

Toxicological data are not available.

**Sensitisation**

Toxicological data are not available.

**Specific target organ toxicity**

Toxicological data are not available.

**Aspiration hazard:**

Toxicological data are not available.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

Toxicological data are not available.

**Practical experience**

Other observations:

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Keeping to the general worker's protection rules and the industrial hygienics, there is no risk in handling this product through the personnel. Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

## Overall Assessment on CMR properties:

The components in this formulation do not meet the criteria for classification as CMR category 1 or 2.

There is no information available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

## 12. Ecological information

### Overall evaluation:

There is no information available on the preparation itself.  
Do not allow to enter into surface water or drains.

### 12.1. Toxicity

No information available.

### Long Term Ecotoxicity

Toxicological data are not available.

### 12.2. Persistence and degradability

Toxicological data are not available.

### 12.3. Bioaccumulative potential

Toxicological data are not available.

### Bioconcentration factor (BCF):

Toxicological data are not available.

### 12.4. Mobility in soil

Toxicological data are not available.

### 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

### 12.6. Other adverse effects

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.

## 13. Disposal considerations

### 13.1. Waste treatment methods

#### Appropriate disposal / Product

#### Recommendation:

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.

#### Control report for waste code/ waste marking according to EAKV:

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

130110 mineral based non-chlorinated hydraulic oils

#### Contaminated packaging:

#### Recommendation:

Cleaned containers may be recycled. Vessels not properly emptied are special waste.

## 14. Transport information

No dangerous good in sense of the transport regulations.

### 14.1. UN-No.:

No dangerous good in sense of this transport regulation.

### 14.2. UN proper shipping name

### 14.3. Transport hazard class(es)

n.a.

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## 14.4. Packing Group:

n.a.

## 14.5. Environmental hazards:

Land transport (ADR/RID) n.a.

Marine pollutant: n.a.

## 14.6. Special precautions for user

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

### Further remarks:

#### Land transport (ADR/RID)

Tunnel restriction code: -

#### Sea transport (IMDG)

EmS-No.: n.a.

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

## 15. Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU legislation

#### National regulations

### 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this preparation were not carried out.

## 16. Other information

### Relevant R-and H-phrases (Number and full text):

Eye Irrit. 2 / H319	Serious eye damage/eye irritation:	Causes serious eye irritation.
Xi; R36	Irritant	Irritating to eyes.

### Further remarks:

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

### Annex:

n.a.: not applicable

n.b.: not determined

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Transport of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

LD50: lethal dose, 50%

LC50: lethal concentration, 50%