

# Safety Data Sheet

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

Article no.: 84350  
Date of print: 24.02.2010

DIVINOL DHG ISO 46  
Revision date: 16.01.2009

21953 EN  
page:1 / 5

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

**Article no. (manufacturer / supplier):** 84350  
**Identification of the substance or preparation:** DIVINOL DHG ISO 46  
HYDRAULIC OIL

**Use of the substance / preparation:**  
Lubricant

### Manufacturer / Supplier:

Zeller+Gmelin GmbH & Co. KG  
Schlossstr. 20  
73054 Eisingen  
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: +49 (0) 7161 / 802-400

## 2. Hazards identification

**hazard designation:**

**Critical hazard to man and environment:**  
n.a.

## 3. Composition/information on ingredients

**chemical characterization (preparation)**

**description:** Mineral oil-based formulation.

**Dangerous ingredients:**

EC-no.:	Identification of the hazard:	Classification remark:	% by weight
CAS-No.:	R phrases:		
INDEX no.:	REACH-no.:		

n.a.

### Additional information

\* Substance with a common (EC) occupational exposure limit value.  
Full text of R-phrases: see section 16.

## 4. 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.

### Following inhalation:

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

### After skin contact:

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

### Following eye contact:

Rinse immediately carefully and thoroughly with eye-bath or water. In case of troubles or persistent symptoms, 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.

## 5. Fire fighting measures

# Safety Data Sheet

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

Article no.: 84350  
Date of print: 24.02.2010

DIVINOL DHG ISO 46  
Revision date: 16.01.2009

21953 EN  
page:2 / 5

### Suitable extinguishing media:

alcohol resistant foam, Extinguishing powder, Carbon dioxide.

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

High power water jet.

### Special exposure hazards arising from the substance itself, combustion products, resulting gases:

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

### Special protective equipment for fire-fighters:

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.

## 6. Accidental release measures

### Personal precautions

See protective measures under point 7 and 8.

### Environmental precautions

Do not empty into drains or the aquatic environment.

### methods for 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.

## 7. Handling and storage

### Handling

#### Information for safe handling:

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

#### Precautions against fire and explosion:

No special measures are necessary.

### Storage

#### Requirements for storerooms and containers:

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

## 8. Exposure controls / Personal protection equipment

### Technical measures to prevent exposure

refer to chapter 7. No further action is necessary.

### Components with workplace or biological limit values to be monitored:

EC-no.:	description:	type:	Value	unit
CAS-No.:			STEL (EC) TWA (EC)	
-				

### Additional information

Stated values are taken from the then applicable German TRGS 900 oder the German VCI table for exposure limit values.

TWA (EC): Occupational exposure limit value

STEL (EC): Short term occupational exposure limit value

### Personal protection equipment

#### 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 characteristics of the material must be taken into consideration. Recommended protective gloves brand: 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.

#### Skin protection:

# Safety Data Sheet

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

Article no.: 84350  
Date of print: 24.02.2010

DIVINOL DHG ISO 46  
Revision date: 16.01.2009

21953 EN  
page:3 / 5

Protective clothing.

## Preventive measures:

After contact clean skin thoroughly with water and soap oder use appropriate cleanser. Do not eat, drink, smoke or sneeze at the workplace.

## 9. Physical and chemical properties

### Appearance:

**State of matter:** liquid  
**Paint:** yellowish brown  
**Odour:** typical

Safety relevant basis data	unit	Method	remark:
Flash point (°C):	> 210 °C	DIN EN ISO 2592	
lower explosion limit:	0,6 Vol-%		
upper explosion level:	6,5 Vol-%		
Vapour pressure (at temperature in °C): 20	< 0,1 mbar		
density (at temperature in °C): 15	0,87 g/cm <sup>3</sup>	DIN 51757	
Solubility in water: (g/l)	insoluble		
pH (at temperature in °C): 20	n.a.		
Viscosity (at temperature in °C): 40	46 mm <sup>2</sup> /s	DIN 51562	
boiling temperature / boiling range:	n.b.		
Pourpoint:	<-30		
VOC % by weight:	0,0		

## 10. Stability and reactivity

### Conditions to avoid:

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

### Materials to avoid:

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

### Hazardous decomposition products:

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

## 11. Toxicological information

Toxicological data are not available.

### Practical experience

Other observations:

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.

### Summarized evaluation of the 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

### Type judging:

There is no information available on the preparation itself .  
Do not empty into drains or the aquatic environment.

### Results of PBT assessment

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

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

### Appropriate disposal / Product:

### Recommendation:

Do not empty into drains or the aquatic environment.

# Safety Data Sheet

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

Article no.: 84350  
Date of print: 24.02.2010

DIVINOL DHG ISO 46  
Revision date: 16.01.2009

21953 EN  
page:4 / 5

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

130205 mineral-based non-chlorinated engine, gear and lubricating oils

## Contaminated packaging:

### Recommendation:

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

## 14. Transport information

Transport according to ADR/RID, IMDG and ICAO/IATA.

### Overland transport (ADR/RID)

Class: n.a.  
Label: n.a.  
UN No.: n.a.  
Hazard identification number (Kemler No.): n.a.  
Official directive for the transport:  
Packing Group: n.a.  
Tunnel restriction code:

### Transport by sea (IMDG)

Class: n.a.  
Label: n.a.  
IMDG-CODE-Class: n.a.  
UN No.: n.a.  
Official directive for the transport:  
Packing Group: n.a.  
Marine pollutant: n.a.

### Air transport (ICAO-TI / IATA-DGR)

Class: n.a.  
UN No.: n.a.  
Packing Group: n.a.

## 15. Regulatory information

### EU-Regulations

#### Chemical Safety Assessment

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

#### Classification

#### Danger symbol(s) and danger term(s) for dangerous materials and preparations:

#### Contains:

n.a.

#### R phrases:

n.a.

#### S phrases:

n.a.

#### Special labelling of particular preparations:

n.a.

### National regulations

## 16. Additional information

### Wording of the r-phrases under paragraph 3

#### 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.

n.a. : not applicable

# Safety Data Sheet

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

Article no.: 84350  
Date of print: 24.02.2010

DIVINOL DHG ISO 46  
Revision date: 16.01.2009

21953 EN  
page:5 / 5

---

n.b. : not determined