

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### NORC HYDRAULISCH HLP-M ISO 32

Page 1 of 7

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

##### 1.1. Product identifier

NORC HYDRAULISCH HLP-M ISO 32

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

###### Use of the substance/mixture

Hydraulic oil

###### Uses advised against

No uses known.

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

Company name: Nano Oil Refining Company NORC GmbH

Street: Am Kaiserkai 69

Place: D-20457 Hamburg

e-mail: [info@norc-germany.de](mailto:info@norc-germany.de)

Internet: [www.norc-germany.de](http://www.norc-germany.de)

##### Further Information

Mixtures must not be registered according to REACH (article 2.7 d). REACH registration numbers of dangerous substances in this mixture (if available): See item 3.

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

##### 2.2. Label elements

##### 2.3. Other hazards

Product can build up a film on the water surface which can inhibit the oxygen exchange. See also sections 11, 12 and 15.

#### SECTION 3: Composition/information on ingredients

##### 3.2. Mixtures

###### Chemical characterization

Additive, mineral oil.

###### Further Information

All concentrations are quoted as mass percentages for liquids and volume percentages for gases.

Other substances which are not classified as dangerous are contained up to 100 %.

This mixture does not contain any substance classified as dangerous, whose concentration exceeds the concentration limits described in article 3.2.2 (annex II, VO 1907/2006/EU).

Full text of R- and H-phrases: see section 16.

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### NORC HYDRAULISCH HLP-M ISO 32

Page 2 of 7

#### General information

In all cases of doubt, or when symptoms persist, seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps.

#### After inhalation

Remove casualty to fresh air and keep warm and at rest. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

#### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated clothing immediately and dispose off safely. In case of skin irritation, seek medical treatment.

#### After contact with eyes

In case of contact with eyes, rinse immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Subsequently consult an ophthalmologist.

#### After ingestion

Do NOT induce vomiting. Call a physician immediately. Aspiration hazard:

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

No data available.

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

No data available.

### SECTION 5: Firefighting measures

#### **5.1. Extinguishing media**

##### Suitable extinguishing media

Carbon dioxide (CO<sub>2</sub>).  
Foam.  
Dry extinguishing powder.  
Use water spray jet to protect personnel and to cool endangered containers.

##### Unsuitable extinguishing media

Water.

#### **5.2. Special hazards arising from the substance or mixture**

The formation of combustible vapours is possible at temperatures above: Flash point.  
Hot product may produce flammable vapours.

In case of fire may be liberated:

Pyrolysis products, toxic.  
hydrocarbons.  
Carbon dioxide.  
Carbon monoxide.  
Hydrogen sulphide (H<sub>2</sub>S).  
Nitrogen oxides (NO<sub>x</sub>).  
Phosphorus oxides.  
Smoke.

#### **5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.  
Full protective suit.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### Additional information

B: Burning liquid or melting substances.

GB - EN

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### NORC HYDRAULISCH HLP-M ISO 32

Page 3 of 7

#### SECTION 6: Accidental release measures

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

Provide adequate ventilation as well as local exhaustion at critical locations.  
Keep away from sources of ignition. - No smoking.  
Avoid contact with skin and eyes.  
Conditions to avoid: Inhalation.  
Do not put any product-impregnated cleaning rags into your trouser pockets.  
High slip hazard because of leaking or spilled product.

##### **6.2. Environmental precautions**

Prevent spread over a wide area (e.g. by containment or oil barriers).  
Do not empty into drains.  
If product enters soil, it will be mobile and may contaminate groundwater.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Treat the recovered material as prescribed in the section on waste disposal.

##### **6.4. Reference to other sections**

See section 8 & 13.

#### SECTION 7: Handling and storage

##### **7.1. Precautions for safe handling**

###### **Advice on safe handling**

See section 6.1  
Avoid contact with skin and eyes.  
Keep away from sources of ignition. - No smoking.  
Wash hands before breaks and after work.  
All work processes must always be designed so that the following is excluded:  
Generation/formation of mist

###### **Advice on protection against fire and explosion**

Take precautionary measures against static discharges.

###### **Further information on handling**

Do not put any product-impregnated cleaning rags into your trouser pockets.  
The formation of combustible vapours is possible at temperatures above: Flash point

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

###### **Requirements for storage rooms and vessels**

Keep/Store only in original container.

###### **Advice on storage compatibility**

Do not store together with:  
Spontaneous combustion.

###### **Further information on storage conditions**

Protect from moisture.  
Keep in a cool place.  
Keep only in the original container at temperature not exceeding 50 °C.

##### **7.3. Specific end use(s)**

Observe technical data sheet.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

**NORC HYDRAULISCH HLP-M ISO 32**

Page 4 of 7

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### 8.2. Exposure controls

##### **Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust at critical locations.

##### **Protective and hygiene measures**

Take off immediately all contaminated clothing.

Wash hands before breaks and after work. Contaminated materials should be removed from the workplace at the end of each working day and be stored outside.

##### **Eye/face protection**

Tightly sealed safety glasses.

German Industry Norms (DIN) / European Norms (EN): DIN EN 166

##### **Hand protection**

Examples of suitable protective gloves from the company KCL GmbH, D-36124 oak cellular, phone +49 (0) 6659 87300, E-mail are: [vertrieb@kcl.de](mailto:vertrieb@kcl.de) with the following specification (test according to EN 374

In full contact / splash contact:

Camatril (Item no. : 731; material: nitrile, Minimum coat thickness: 0.33 mm, Breakthrough time: 480 min)

Dermatril (Item no. : 740; material: nitrile, Minimum coat thickness: 0.11 mm, Breakthrough time: 30 min)

The selected protective gloves have to satisfy the specifications of EU Directive 89/686 / EEC and the resultant standard EN374. The breakthrough times stated above are based on laboratory measurements of KCL to EN374 and are only authoritative for the recommended glove types.

Protect skin by using skin protective cream.

##### **Skin protection**

The type of personal protection equipment has to be chosen based on the concentration and amount of the dangerous substance at the workplace. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

Chemical resistant safety shoes. with lead protection cap.

German Industry Norms (DIN) / European Norms (EN): DIN EN 344

##### **Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required.

Generation/formation of mist: Filtering device with filter or ventilator filtering device of type: A-P2.

##### **Environmental exposure controls**

Technical measures to prevent exposure.

Organisational measures to prevent exposure.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### NORC HYDRAULISCH HLP-M ISO 32

Page 5 of 7

## SECTION 9: Physical and chemical properties

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

Physical state:	liquid
Colour:	yellow, brown
Odour:	characteristic

#### Test method

#### Changes in the physical state

Initial boiling point and boiling range:	> 300 °C
Pour point:	-27 °C
Flash point:	230 °C DIN ISO 2592
Lower explosion limits:	0,6 vol. %
Upper explosion limits:	6,5 vol. %
Ignition temperature:	> 250 °C ASTM E 659
Density (at 15 °C):	848 - 868 g/cm <sup>3</sup> DIN 53217

#### Solubility in other solvents

insoluble in: Water.

Viscosity / kinematic: (at 40 °C)	28,8 - 35,2 mm <sup>2</sup> /s DIN 51562
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### 9.2. Other information

No data available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

See section 9.

### 10.2. Chemical stability

If product is stored and handled as prescribed it is stable.

### 10.3. Possibility of hazardous reactions

The formation of combustible vapours is possible at temperatures above: Flash point

### 10.4. Conditions to avoid

Oxidizing agents, strong.

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

See section 5.3.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### NORC HYDRAULISCH HLP-M ISO 32

Page 6 of 7

#### SECTION 11: Toxicological information

##### 11.1. Information on toxicological effects

###### **Toxicokinetics, metabolism and distribution**

There are no data available on the preparation/mixture itself.

###### **Acute toxicity**

Classification: none.

The classification was carried out according to the calculation method of the regulation (EC) 1272/2008 [CLP].

###### **Irritation and corrosivity**

Classification: none.

The classification was carried out according to the calculation method of the regulation (EC) 1272/2008 [CLP].

###### **Sensitising effects**

Classification: none.

Frequently or prolonged contact with skin may cause dermal irritation.

###### **Severe effects after repeated or prolonged exposure**

Classification: none.

The classification was carried out according to the calculation method of the regulation (EC) 1272/2008 [CLP].

###### **Carcinogenic/mutagenic/toxic effects for reproduction**

This substance does not meet the criteria for classification as CMR category 1 A or 1B according to CLP.

###### **Specific effects in experiment on an animal**

There are no data available on the preparation/mixture itself.

###### **Additional information on tests**

Frequently or prolonged contact with skin may cause dermal irritation.

#### SECTION 12: Ecological information

##### 12.1. Toxicity

There are no data available on the preparation/mixture itself.

Classification: none.

The classification was carried out according to the calculation method of the regulation (EC) 1272/2008 [CLP].

##### 12.2. Persistence and degradability

Not easily bio-degradable (according to OECD-criteria).

Product is not easily biodegradable. (Data apply to the main component.)

##### 12.3. Bioaccumulative potential

There are no data available on the preparation/mixture itself.

##### 12.4. Mobility in soil

There are no data available on the preparation/mixture itself.

##### 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

Effects in sewage plants: Mechanical separation in a suitable sewage plant is possible.

GB - EN

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### NORC HYDRAULISCH HLP-M ISO 32

Page 7 of 7

#### SECTION 13: Disposal considerations

##### 13.1. Waste treatment methods

###### Advice on disposal

Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".  
Observe mixture permissions according to "Altölverordnung (Waste oil directive)".  
Waste disposal according to EC Directives 75/442/EEC and 91/689/EEC on waste and hazardous waste in their latest versions.  
According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

###### Waste disposal number of waste from residues/unused products

130110 OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19); waste hydraulic oils; mineral based non-chlorinated hydraulic oils  
Classified as hazardous waste.

###### Waste disposal number of used product

130110 OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19); waste hydraulic oils; mineral based non-chlorinated hydraulic oils  
Classified as hazardous waste.

###### Waste disposal number of contaminated packaging

130110 OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19); waste hydraulic oils; mineral based non-chlorinated hydraulic oils  
Classified as hazardous waste.

###### Contaminated packaging

Dispose of waste according to applicable legislation.  
Non-contaminated packages may be recycled.  
Packing which cannot be properly cleaned must be disposed of.

#### SECTION 14: Transport information

##### Other applicable information

No dangerous good in sense of these transport regulations.

#### SECTION 15: Regulatory information

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

###### National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

##### 15.2. Chemical safety assessment

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

#### SECTION 16: Other information

##### Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*