

# SAFETY DATA SHEET

**MOL-LUB Ltd.**

according to regulation (EC) No 1907/2006 (REACH)

Trade name: **MOL Hydro HME 22 premium hydraulic oil**

Version: 3    Latest revision: 04. 08. 2011    Date of issue: 20. 06. 2007    Page: 1/(11)

## 1. Identification of the mixture and of the company/undertaking

1.1 Product identifier:

**MOL Hydro HME 22 premium hydraulic oil**

1.2 Relevant identified uses of the mixture and uses advised against

Relevant identified uses: premium hydraulic oil

Uses advised against: no data

1.3 Details of the supplier of the safety data sheet:

MOL-LUB Lubricant Production Trade and Service Limited Liability Company

H-2931 Almásfüzitő, Fő út 21., Hungary

Phone / Fax: +36 34 526 330 / +36 34 526 391

Request SDS of:

MOL-LUB Lubricant Production Trade and Service Limited Liability Company

Customer Service Center

H-2931 Almásfüzitő, Fő út 21., Hungary

Phone / Fax: +36 80 201 296 / +36 34 348 010

Responsible for SDS:

MOL-LUB Ltd. Csaba Horváth, head of HSE and QOP

Phone: +36 34 526 343; Mobile: +36 20 474 2644

e-mail: csahorvath@mol.hu

Technical information:

MOL-LUB Ltd. Product Development and Technical Service

H-1117 Budapest, Október huszonharmadika utca 18., Hungary

Phone/Fax: +36 80 201 296 or +36 1 464 0236 / +36 1 464 0304

1.4 Emergency telephone number

Emergency telephone (07-15<sup>20</sup> h): +36 34 526 210 (CET) on workdays

Health Toxicological Information Service (ETTSZ 1096 Budapest, Nagyvárad tér 2.)

Tel.: +36 1 476 6464, or +36 80 201 199

National Health Toxicological Information Service:

## 2. Hazards identification

2.1 Classification of the mixture according to 1999/45/EC

Human health hazards:    Danger symbol not required.

Note:    Prolonged and/or repeated contact may cause irritation on skin or in eyes depending on individual sensitivity (See also Protective equipment).

# SAFETY DATA SHEET

MOL-LUB Ltd.

according to regulation (EC) No 1907/2006 (REACH)

Trade name: **MOL Hydro HME 22 premium hydraulic oil**

Version: 3

Latest revision: 04. 08. 2011

Date of issue: 20. 06. 2007

Page: 2/(11)

Safety hazards: Danger symbol not required.

Environmental hazards: Danger symbol not required.

Note: Spills may form a film on water surfaces causing impaired oxygen transfer.

## 2.2 Label elements

Danger symbol(s) and indication(s): *not required*

Hazardous substance(s): -

The packaging must bear the inscription: -

R-phrases: not required

S-phrases: S 60 This material and its container must be disposed of as hazardous waste

S 61 Avoid release to the environment. Refer to special instructions/Safety data sheets

Other liabilities for labelling:

Tactile warning of danger: Distribution for population.

Transport classification: see section 14.

## 2.3 Other hazards

no data available

## 3. Composition/information on ingredients

### 3.1 Mixtures

Chemical description: Mixture of refined mineral base oils containing additives.




**SAFETY DATA SHEET****MOL-LUB Ltd.**

according to regulation (EC) No 1907/2006 (REACH)

Trade name: **MOL Hydro HME 22 premium hydraulic oil**

Version: 3    Latest revision: 04. 08. 2011    Date of issue: 20. 06. 2007    Page: 3/(11)

## Ingredients:

Name	EINECS number	CAS number	Hazard symbol / Hazard classes and cat.	Risk phrase / Hazard statements	Conc. %(m/m)
Lubricating oils (petroleum), C24-C50* Registration Nr.: 01-2119489969-06	309-877-7	101316-72-7	67/548/EEC: - (Note L) 1272/2008/EC: Asp.Tox.1 (Note L)	-  H304	max. 99
Lubricating oils (petroleum), C18-C40* Registration Nr.: 01-2119486987-11	305-594-8	94733-15-0	67/548/EEC: - (Note L) 1272/2008/EC: Asp.Tox.1 (Note L)	-  H304	
Zinc dialkyl dithiophosphate 	272-028-3	68649-42-3	67/548/EEC: Xi, N 1272/2008/EC: not known	R 41, R 51/53	max. 0.6
Alkylated phenol  		confidential	67/548/EEC: N 1272/2008/EC: not known	R 50/53	max. 0.2

\*: with exposure limit

The full text of each relevant R, H phrase see in Section 16.

**4. First aid measures**

## 4.1 Description of first aid measures

General information: Never give anything by mouth to an unconscious person, or never induce vomiting.

Inhalation: Remove the affected person to fresh air. If rapid recovery does not occur, obtain medical attention.

Skin contact: Wash skin with large amounts of water, use soap. In case of persistent irritation, get medical attention.

# SAFETY DATA SHEET

**MOL-LUB Ltd.**

according to regulation (EC) No 1907/2006 (REACH)

Trade name: **MOL Hydro HME 22 premium hydraulic oil**

Version: 3    Latest revision: 04. 08. 2011    Date of issue: 20. 06. 2007    Page: 4/(11)

Eye contact: Flush eyes with plenty of water for 10-15 minutes. In case of persistent irritation, get medical attention.

Ingestion: If swallowed, give water. **Do not** induce vomiting. Get medical attention.

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 need  
Not required.

## 5. Fire-fighting measures

Fire hazards:

Moderately hazardous (see also Section 9 - flash point).

### 5.1 Extinguishing media

Suitable extinguishing media:

Foam, carbon dioxide, dry chemical powder.

Unsuitable extinguishing media:

Water jet.

### 5.2 Special hazards arising from the mixture

Hazardous combustion products:

On burning, carbon monoxide, carbon dioxide, sulphur oxides, phosphor oxides, various hydrocarbons and soot can be formed.

### 5.3 Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations.

Further information:

-

## 6. Accidental release measures

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

Personal precautions: see Section 8.

# SAFETY DATA SHEET

**MOL-LUB Ltd.**

according to regulation (EC) No 1907/2006 (REACH)

Trade name: **MOL Hydro HME 22 premium hydraulic oil**

Version: 3    Latest revision: 04. 08. 2011    Date of issue: 20. 06. 2007    Page: 5/(11)

## 6.2 Environmental precautions:

Confine spills to prevent material from entering sewers, watercourses, drains and into soil Notify relevant authority.

## 6.3 Methods and material for containment and cleaning up

On soil: All kind of ignition sources should be remove. Contain spilled liquid with sand, earth or other suitable absorbents. Recover free liquid by pumping. Dispose of according to local regulations.

On water: Confine the spillage. Remove from surface by skimming or suitable absorbents. Notify local authorities according to regulations.

## 6.4 Reference to other sections

Personal precautions: see section 8.

Waste treatment methods: see section 13.

## 7. Handling and storage

### 7.1 Precautions for safe handling

Keep general measures applied for normal operations with lubricants.

Keep away from radiant heat and open flame.

Avoid contact with skin and eyes. Avoid prolonged breathing of oil vapours or mists.

Ensure washing facilities after working hours and before breaks. Take off contaminated or oil-soaked clothing, wash with warm water and soap.

When using do not eat, drink or smoke. Avoid splashing the product.

Handling temperature:

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

Storage facilities must comply with regulations for storing of flammable liquids.

Store in dry, well ventilated place in original, closed containers.

Keep away from radiant heat, open flame and strong oxidizing agents.

Storage temperature: max. 40°C

### 7.3 Specific end use(s)

Premium hydraulic oil.

## 8. Exposure controls / personal protection

Engineering control measures:

Not required.

# SAFETY DATA SHEET

MOL-LUB Ltd.

according to regulation (EC) No 1907/2006 (REACH)

Trade name: **MOL Hydro HME 22 premium hydraulic oil**

Version: 3    Latest revision: 04. 08. 2011    Date of issue: 20. 06. 2007    Page: 6/(11)

## 8.1 Control parameters:

**Mineral oil mist:**                      TWA: **5 mg/m<sup>3</sup>**; STEL: 10 mg/m<sup>3</sup>, for oil mist, vapour excluded (ACGIH).

Method of testing, recommended: NIOSH 5026

## 8.2 Exposure controls

### Personal protection:

Respiratory protection:    Breathing apparatus not required.

Hand protection:            Oil resistant gloves (EN 374, Breakthrough time 480 min) (e.g. nitrile rubber – minimal thickness 0.33 mm).

Note: Manufacturer's directions for use and the conditions of application should be observed.

Eye protection:              Protective goggles not required.

Skin protection:              Protective clothing (oil resistant).

Other special:                no data

### Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.

## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance:

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

#### Change in physical state:

Pour point (ISO 3016):                      typ. -24°C  
Boiling point:                                  not available

#### Others:

Flash point (COC) (EN ISO 2592):              typ. 200°C  
Ignition point (EN ISO 2592):                  not available  
Autoignition temperature:                      not available  
Explosive properties:                              not explosive  
Oxidizing properties:                              not oxidize  
Vapour pressure at 20°C:                          negligible  
Density at 15°C (EN ISO 12185):                  typ. 0.863 g/cm<sup>3</sup>  
Solubility in water:                                  practically insoluble in water  
Solubility in other solvents:                      gasoline, kerosene, toluene, etc.

# SAFETY DATA SHEET

MOL-LUB Ltd.

according to regulation (EC) No 1907/2006 (REACH)

Trade name: **MOL Hydro HME 22 premium hydraulic oil**

Version: 3    Latest revision: 04. 08. 2011    Date of issue: 20. 06. 2007    Page: 7/(11)

n-Octanol/water partition coefficient:	not available
Vapour density:	not available
Heating value:	inf. 38 000 kJ/kg
Kinematic viscosity at 40°C (EN ISO 3104):	typ. 22.5 mm <sup>2</sup> /s
Kinematic viscosity at 100°C (EN ISO 3104):	typ. 4.35 mm <sup>2</sup> /s
pH:	not applicable

9.2 Other information  
no data available

## 10. Stability and reactivity

- 10.1 Reactivity: Dangerous reactivity not known.
- 10.2 Chemical stability: No decomposition if stored and handled properly.
- 10.3 Possibility of hazardous reactions: Not known.
- 10.4 Conditions to avoid: Direct heat or ignition sources.
- 10.5 Incompatible materials: Strong oxidizing agents.
- 10.6 Hazardous decomposition products: No dangerous decomposition products are formed under normal conditions. Hazardous combustion products: See Section 5.

## 11. Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity:

Oral:	LD <sub>50</sub> (rat)	> 2000	mg/kg	(based on components)
Dermal:	LD <sub>50</sub> (rabbit)	> 2000	mg/kg	(based on components)

Acute toxicity: irritation

Skin:	not irritant (based on components)
Eye:	not irritant (based on components)
Note:	Prolonged and/or repeated contact may cause irritation on skin or in eyes depending on individual sensitivity.

Respiratory or skin sensitisation: not sensitising (based on components)

Chronic toxicity: not known

Repeated dose toxicity: not known

Other information, specific effects:

The product does not contain PCBs, PCTs, and other chlorine compounds, and heavy metals, barium compounds.

# SAFETY DATA SHEET

MOL-LUB Ltd.

according to regulation (EC) No 1907/2006 (REACH)

Trade name: **MOL Hydro HME 22 premium hydraulic oil**

Version: 3    Latest revision: 04. 08. 2011    Date of issue: 20. 06. 2007    Page: 8/(11)

NOTE L: The base oil(s) contain(s) less than 3% DMSO extract (IP 346), therefore not classified as carcinogenic material according to 1272/2008/EC.

Carcinogen effect:                      not known, resp. not carcinogen (based on components)

Mutagen effect:                            not known, resp. not mutagen (based on components)

Reproduction-damaging effect:        not known, resp. no reproduction-damaging effect (based on components)

## 12. Ecological information

12.1 Toxicity                                Not available.

Aquatic organisms:

Soil organisms:

Plants:

12.2 Persistence and degradability        No data available.

Biodegradability:                          No data available.

12.3 Bioaccumulative potential            No data available.

12.4 Mobility

Mobility in soil                            Absorbs in soil.

Mobility in water:                         Floats on water.

12.5 Results of PBT and vPvB assessment    Not required.

12.6 Other adverse effects

Heavy metal content:                      None.

PCT, PCB and other chlorinated hydrocarbons:                      None.

Environmental effects:                    Spills may form a film on water surfaces causing impaired oxygen transfer.

Water hazard class (German):            -



# SAFETY DATA SHEET

MOL-LUB Ltd.

according to regulation (EC) No 1907/2006 (REACH)

Trade name: **MOL Hydro HME 22 premium hydraulic oil**

Version: 3    Latest revision: 04. 08. 2011    Date of issue: 20. 06. 2007    Page: 9/(11)

## 13. Disposal considerations

### 13.1 Waste treatment methods

#### Product disposal:

Wastes of the product or used oil should be treated as hazardous waste.

EWC cod: 13 01 10\*

Mineral based non-chlorinated hydraulic oils.

EWC cod: 13 02 05\*

Mineral-based non-chlorinated engine, gear and lubricating oils.

Disposal must be in compliance with national and local regulations.

#### Packaging disposal:

Containers with product residue should also be treated as hazardous waste according to national and local disposal regulations.

EWC cod: 15 01 10\*

Packaging containing residues of or contaminated by dangerous substances.

Disposal must be in compliance with national and local regulations.

Recommended waste treatment method: incineration

#### Wastewater:

Quality of wastewater emitted to natural water must comply with national and local regulations.

Care should be taken in any case to ensure compliance with EC, national and local regulations. It is the responsibility of the user to know all relevant national and local regulations.

## 14. Transport information

#### Land transport:

Road/ Railway	ADR/RID:	Not classified.
---------------	----------	-----------------

#### Waterways:

Inland waterways/ Sea transport	ADN/IMDG:	Not classified.
---------------------------------	-----------	-----------------

#### Air transport:

ICAO / IATA:	Not classified.
--------------	-----------------

# SAFETY DATA SHEET

MOL-LUB Ltd.

according to regulation (EC) No 1907/2006 (REACH)

Trade name: **MOL Hydro HME 22 premium hydraulic oil**

Version: 3    Latest revision: 04. 08. 2011    Date of issue: 20. 06. 2007    Page: 10/(11)

## 15. Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the mixture.  
This safety data sheet has been prepared according to Regulation (EC) No 1907/2006 (mod.: 453/2010/EC).
- 15.2 Chemical safety assessment.  
not available

## 16. Other information

The information given in this data sheet is based on our best knowledge at the time of publication. The information is related only to this product and is intended to assist its safe transport, handling and use. The given physical and chemical parameters describe the product only for the purpose of safety requirements and therefore should not be construed as guaranteeing any specific property of the product or as being part of a product specification or any contract.

The manufacturer or supplier shall not take responsibility for any damages from the use other than recommended or other misuse of the product. It is the responsibility of the user to keep regulatory precautions and observe recommendations for safe use of the product.

Source of data presented in this material safety data sheet:

- Test results of this product
- Material safety data sheets of product's components
- Hungarian and EU lists of dangerous substances
- Relevant Hungarian regulation and EU directives

*The full text of each relevant R, H phrase in Section 3.:*

- |             |  |
|-------------|--|
| R 41        | Risk of serious damage to eyes.  |
| R 50/53     | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R 51/53     | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.      |
| H304        | May be fatal if swallowed and enters airways.  |
| Asp. Tox. 1 | Aspiration hazard Category 1   |

**SAFETY DATA SHEET****MOL-LUB Ltd.**

according to regulation (EC) No 1907/2006 (REACH)

Trade name: **MOL Hydro HME 22 premium hydraulic oil**

Version: 3    Latest revision: 04. 08. 2011    Date of issue: 20. 06. 2007    Page: 11/(11)

## Revision Indicators:

Section	Subject of change	Date	Version
3 1-16	Composition / information on ingredients Regulatory informations, other corrections	13.10.2010	2
3 1-16	Composition/information on ingredients Regulatory informations, other corrections Revision modification according to 453/2010/EC	04.08.2011	3