



SAFETY DATA SHEET

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC **MOL-LUB Ltd.**

Trade name: **MOL Hydro HM 32 hydraulic oil**

Version: 6 Latest revision: 21. 10. 2015 Date of issue: 20. 06. 2007 Page: 1/(12)

Section 1 Identification of the mixture and of the company/undertaking

1.1 Product identifier:

MOL Hydro HM 32 hydraulic oil

1.2 Relevant identified uses of the mixture and uses advised against

Relevant identified uses: 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

E-mail: kenoanyag@mol.hu

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 SD, HSE & Business Support

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

e-mail: csahorvath@mol.hu

1.4 Emergency telephone number

Emergency telephone (07-15²⁰ 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:



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Section 2 Hazards identification

2.1 Classification of the mixture

Hazard Class and Category: Hazard statement:
Not classified. -

2.2 Label elements ((EC) No 1272/2008)

Product identification: Trade name: **MOL Hydro HM 32 hydraulic oil**

Hazardous components: -

GHS Pictogram: Not required.
Signal word: Not required.

Hazard statement:
Not required.

Supplemental hazard information: -

Precautionary statements – General: -

Precautionary statements – Prevention:
P273 Avoid release to the environment.

Precautionary statements – Response: -

Precautionary statements – Storage: -

Precautionary statements – Disposal:
P501 Dispose of contents/container in accordance with national regulation.

Other liabilities for labelling:

Tactile warning of danger: Not required.

Transport classification: see section 14.

2.3 Other hazards

The product does not contain any PBT or vPvB substance according to annex XIII of regulation (EC) 1907/2006.



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Section 3 Composition/information on ingredients

3.2 Mixtures

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

Component(s) / Hazardous component(s):

| Name | EU number | CAS number | Hazard classes and cat. | Hazard statements | Conc. % (m/m) |
|---|-----------|--------------|---|----------------------|---------------|
| Lubricating oils (petroleum), C24- C50* REACH Registr.Nr.: 01-2119489969-06 | 309-877-7 | 101316-72-7 | Asp.Tox.1 (Note L) | H304 | max. 65 |
| Lubricating oils (petroleum), C18-40* REACH Registr.Nr.: 01-2119486987-11 | 305-594-8 | 94733-15-0 | Asp.Tox.1 (Note L) | H304 | max. 50 |
| Lubricating oils (petroleum), C>25* REACH Registr.Nr.: 01-2119486948-13 | 309-874-0 | 101316-69-2 | - (Note L) | - | max. 5 |
| Lubricating oils (petroleum), C18-40* REACH Registr.Nr.: 01-2119486987-11 | 305-594-8 | 94733-15-0 | - (Note L) | - | max. 5 |
| Zinc dialkyl dithiophosphate REACH Registr. Nr.: 01-2119493635-27 | 272-028-3 | 68649-42-3 | Eye Dam. 1 Aquatic Chronic 2 | H318 H411 | max. 0.5 |
| Alkylated phenol | | confidential | Skin Irrit. 2 Aquatic Acute 1 Aquatic Chronic 1 | H315 H400 H410 | max. 0.15 |

*: with exposure limit

The full text of each relevant H- phrase and Hazard classes and cat. see in Section 16.

Section 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.



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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.

Protection of first-aid person: No individual specifications.

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.

Section 5 Fire-fighting measures

Fire hazards:
Combustible

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 dioxide, carbon monoxide, 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:
Collect contaminated fire fighting water separately. It must not enter the sewage system. Contaminated extinguishing water must be disposed of in accordance with official regulations.



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Section 6 **Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures
Personal precautions: see Section 8.
- 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. Recover free liquid by pumping. Contain the rest or small quantities with sand, earth or other suitable absorbents. 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.

Section 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)
Hydraulic oil.



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| | |
|---|-----------------------------------|
| Vapour pressure at 20°C: | negligible |
| Density at 15°C (EN ISO 12185): | 0.855-0.875 g/cm ³ |
| Solubility in water: | practically insoluble in water |
| Solubility in other solvents: | gasoline, kerosene, toluene, etc. |
| n-Octanol/water partition coefficient: | not available |
| Vapour density: | not available |
| Evaporation rate: | not available |
| Heating value: | inf. 38 000 kJ/kg |
| Kinematic viscosity at 40°C (EN ISO 3104): | typ. 32.5 mm ² /s |
| Kinematic viscosity at 100°C (EN ISO 3104): | typ. 5.4 mm ² /s |
| pH: | not applicable |

9.2 Other information
no data available

Section 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. |

Section 11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

| | | | | |
|---------|---------------------------|--------|-------|-----------------------|
| Oral: | LD ₅₀ (rat) | > 2000 | mg/kg | (based on components) |
| Dermal: | LD ₅₀ (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)



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Other information, specific effects:

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

Note L: The classification as a carcinogen need not apply according to 1272/2008/EC, because it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346.

| | |
|-------------------------|--|
| Germ cell mutagenicity: | not known, resp. not mutagen (based on components) |
| Carcinogenicity: | not known, resp. not carcinogen (based on components) |
| Reproductive toxicity: | not known, resp. no reproduction-damaging effect (based on components) |
| STOT-single exposure: | not known |
| STOT-repeated exposure: | not known |
| Aspiration hazard: | not known |

Section 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: | Does not contain PBT and vPvB substances. |
| 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): | WGK 1 (Classification by VwVwS) |



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Section 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 (applicable version) and to Regulation (EC) 1272/2008.

15.2 Chemical safety assessment.
not available

Section 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

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 (CLP)
Not classified. -

The full text of each relevant H- phrase and Hazard classes and cat. in Section 3.:

| | |
|------|---|
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |



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| | |
|-------------------|--|
| Asp.Tox.1 | Aspiration hazard Category 1 |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2 |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Aquatic Acute 1 | Hazardous to the aquatic environment, Acute Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment, Chronic Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, Chronic Category 2 |

Legend:

| | |
|-------------------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration Factor |
| BOD | Biological Oxygen Demand |
| Bw | Body Weight |
| C&L | Classification and Labeling |
| CAS | Chemical Abstracts Service |
| CLP | Classification, Labelling and Packaging (1272/2008/EC) |
| CMR | Carcinogenic, Mutagenic or toxic to Reproduction |
| COD | Chemical Oxygen Demand |
| CSA | Chemical Safety Assessment |
| CSR | Chemical Safety Report |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No Effect Level |
| ECHA | European Chemicals Agency |
| Ec _x | Effective Concentration x% |
| Er _{C50} | EC ₅₀ in terms of reduction of growth rate |
| Ed _x | Effective Dose x% |
| EC | European Community |
| EC number | European Community number |
| ELINCS | European List of Notified Chemical Substances |
| ES | Exposure Scenario |
| ESIS | European Chemical Substances Information System |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC _x | Lethal Concentration x% |
| LD _x | Lethal Dose x%) Halálos dózis x% |
| LOAEC | Lowest Observed Adverse Effect Concentration |
| LOAEL | Lowest Observed Adverse Effect Level |
| LOEC | Lowest Observed Effect Concentration |
| LOEL | Lowest Observed Effect Level |
| NOEC | No observed effect concentration |



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| | |
|-------|--|
| NOEL | No observed effect level |
| NLP | No-Longer Polymer |
| NOAEL | No Observed Adverse Effect Level |
| OECD | Organisation for Economic Cooperation and Development |
| PBT | Persistent Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| ppm | parts/million |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Regulations concerning the International carriage of Dangerous Goods by Rail |

Revision Indicators:

| Section | Subject of change | Date | Version |
|----------------|---|------------|---------|
| 3 1-16 | Ingredients / Hazardous components Other corrections | 10.08.2009 | 2 |
| 1-16 | Regulatory information, other corrections | 13.10.2010 | 3 |
| 3 9 1-16 | Composition/information on ingredients Physical and chemical properties Revision modification according to 1272/2008/EC and 453/2010/EC | 10.10.2012 | 4 |
| 3 9 1-16 | Composition/information on ingredients Physical and chemical properties Regulatory information, other corrections | 16.04.2014 | 5 |
| 1 3 1-16 | Details of the supplier of the safety data sheet, Responsible for SDS Composition/information on ingredients Other corrections, revision modification according to 2015/830 /EU | 21.10.2015 | 6 |