



Trade name: MOL Hydro HLPD 32 detergent hydraulic oil

Version: 8 Latest revision: 18. 05. 2022 Date of issue: 20. 07. 2007 Page: 1/(14)

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

1.1 Product identifier:

## MOL Hydro HLPD 32 detergent hydraulic oil

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

Relevant identified uses: detergent hydraulic oil

Uses advised against: application other than the above

1.3 Details of the supplier of the safety data sheet:

MOL-LUB Lubricant Production Distribution and Service Ltd.

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 Distribution and Service Ltd.

**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.

Phone: +36 80 201 296

e-mail: EBKHelpdesk@MOL.hu

1.4 Emergency telephone number

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

Health Toxicological Information Service (ETTSZ 1097 Budapest, Albert Flórián st. 2-6.)

Tel.: +36 80 201 199 (0-24 h, free number, can only be called from Hungary).

+36 1 476 6464 (0-24 h, can be called for a normal fee - also from abroad)

National Health Toxicological Information Service:

#### **SECTION 2** Hazards identification

2.1 Classification of the substance or mixture

Hazard Class and Category: Hazard statement:

Not classified.





Trade name: MOL Hydro HLPD 32 detergent hydraulic oil

Version: 8 Latest revision: 18. 05. 2022 Date of issue: 20. 07. 2007 Page: 2/(14)

2.2 Label elements

Product identification: Trade name: MOL Hydro HLPD 32 detergent hydraulic oil

Hazardous component(s):

GHS Pictogram: not required Signal word: not required

Hazard statement: **not required** 

Supplemental hazard information:

**EUH208** Contains Benzoic acid, hydroxy-, mono-C20-28 branched alkyl derivs.,

Calcium salts (2:1). May produce an allergic reaction.

**EUH210** Safety data sheet available on request.

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, at a concentration of 0.1% or more.

The mixture does not contain any substance with endocrine disrupting properties, at a concentration of 0.1% or more.





Trade name: MOL Hydro HLPD 32 detergent hydraulic oil

Version: 8 Latest revision: 18. 05. 2022 Date of issue: 20. 07. 2007 Page: 3/(14)

## **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	EC	CAS	Hazard classes and	Hazard	Conc.
Name	number	number	cat.	statements	%(m/m)
Distillates (petroleum),	265-169-7	64742-65-0	-	-	<100
solvent-dewaxed heavy			(Note L)		
paraffinic*					
REACH Registr. Nr.:					
01-2119471299-27					
Distillates (petroleum),	265-159-2	64742-56-9	Asp. Tox. 1	H304	max.10
solvent-dewaxed light			(Note L)		
paraffinic					
REACH Registr. Nr:					
01-2119480132-48					
2,6-di-tert-butylphenol	204-884-0	128-39-2	Skin Irrit. 2	H315	max. 0.17
REACH Registr. Nr.:			Aquatic Acute 1	H400 (M=1)	
01-2119490822-33			Aquatic Chronic 1	H410 (M=1)	
Benzoic acid, hydroxy-,	polymer	900185-23-1	Skin Sens. 1	H317	max. 0.11
mono-C20-28 branched			Aquatic Chronic 4	H413	
alkylderivs., Calcium					
salts (2:1)					
REACH Registr. Nr.:					
not necessary (polymer)					

<sup>\*:</sup> with exposure limit

#### Note L:

The harmonised classification as a carcinogen applies unless it can be shown that the substance contains less than 3 % of dimethyl sulphoxide extract as measured by IP 346 ("Determination of polycyclic aromatics in unused lubricating base oils and asphaltene free petroleum fractions — Dimethyl sulphoxide extraction refractive index method" Institute of Petroleum, London), in which case a classification in accordance with Title II of this Regulation shall be performed also for that hazard class.

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



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

Trade name: MOL Hydro HLPD 32 detergent hydraulic oil

Version: 8 Latest revision: 18. 05. 2022 Date of issue: 20. 07. 2007 Page: 4/(14)

# **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: Remove contaminated clothing. Wash skin with large amounts of water, use

soap. In case of persistent irritation, get medical attention.

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

Prolonged and/or repeated contact may cause irritation on skin or in eyes depending on individual sensitivity.

May produce an allergic reaction.

4.3 Indication of any immediate medical attention and special treatment needed 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:

Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:

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



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

Trade name: MOL Hydro HLPD 32 detergent hydraulic oil

Version: 8 Latest revision: 18. 05. 2022 Date of issue: 20. 07. 2007 Page: 5/(14)

## 5.3 Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations. Respiratory protection.

### 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.

### SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: see Section 8.

Danger of slipping on leaked out/spilled product.

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 and flammable liquids.

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 clothing and wash it before reuse.

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

Handling temperature: not known.





Trade name: MOL Hydro HLPD 32 detergent hydraulic oil

Version: 8 Latest revision: 18. 05. 2022 Date of issue: 20. 07. 2007 Page: 6/(14)

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)

Detergent hydraulic oil.

## SECTION 8 Exposure controls / personal protection

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

Engineering control measures:

Not required.

Personal protection:

(a) Eye/face protection Where splashing is possible, wear safety glasses (EN 166).

(b) Skin protection

(i) 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.

(ii) Other Protective clothing (oil resistant).

(c) Respiratory protection Under normal conditions not required. In case of exceeded

exposure-limits respiratory protection with particle-filter is

recommended.

(d) Thermal hazards No data.

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.

## **SECTION 9** Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Physical state: liquid

b) Colour: yellow, clear, bright

c) Odour: characteristic



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

Trade name: MOL Hydro HLPD 32 detergent hydraulic oil

Version: 8 Latest revision: 18. 05. 2022 Date of issue: 20. 07. 2007 Page: 7/(14)

d) Melting point/freezing point (Pour point) (ISO 3016): typ. -24°C

e) Boiling point or initial boiling point and boiling range: not available

f) Flammability: combustible

g) Lower and upper explosion limit: not explosive

h) Flash point (COC) (EN ISO 2592): typ. 220°C

i) Auto-ignition temperature: not available

j) Decomposition temperature: not available

k) pH: not applicable

1) Kinematic viscosity at (DIN EN ISO 3104)

40°C: typ.  $33 \text{ mm}^2/\text{s}$ 

 $100^{\circ}$ C typ. 5.45 mm<sup>2</sup>/s

m) Solubility

Solubility in water: practically insoluble in water

Solubility in other solvents: gasoline, kerosene, toluene, etc.

n) Partition coefficient n-octanol/water (log value): not available

o) Vapour pressure at 20°C: negligible

p) Density and/or relative density at 15°C (EN ISO

12185):  $0.865 - 0.897 \text{ g/cm}^3$ 

q) Relative vapour density: not available

r) Particle characteristics: not available

9.2 Other information

Oxidizing properties: not oxidize
Heating value: inf. 38 000 kJ/kg

## **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.





Trade name: MOL Hydro HLPD 32 detergent hydraulic oil

Version: 8 Latest revision: 18. 05. 2022 Date of issue: 20. 07. 2007 Page: 8/(14)

## **SECTION 11** Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: Based on available data, the classification criteria are not met.

Oral:  $LD_{50}$  (rat) > 2000 mg/kg (based on components) Dermal:  $LD_{50}$  (rabbit) > 2000 mg/kg (based on components)

Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS: 64742-65-0)

Oral:  $LD_{50}$  (rat) > 5000 mg/kg (literature data) Dermal:  $LD_{50}$  (rabbit) > 2000 mg/kg (literature data) Inhalation:  $LC_{50}$  (rat) > 5.53 mg/L/4 h (literature data)

Distillates (petroleum), solvent-dewaxed light paraffinic (CAS: 64742-56-9)

2,6-di-tert-butylphenol (CAS: 128-39-2)

Oral:  $LD_{50}$  (rat) > 5000 mg/kg Dermal:  $LD_{50}$  (rabbit) > 10000 mg/kg

Based on available data, the classification criteria are not met. Skin corrosion/irritation: Serious eye damage/irritation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation: Based on available data, the classification criteria are not met. Germ cell mutagenicity: Based on available data, the classification criteria are not met. Carcinogenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met. STOT-single exposure: Based on available data, the classification criteria are not met. STOT-repeated exposure: Based on available data, the classification criteria are not met. Aspiration hazard: Based on available data, the classification criteria are not met.

### 11.2 Information on other hazards

The mixture does not contain any substance with endocrine disrupting properties, at a concentration of 0.1% or more.



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

Trade name: MOL Hydro HLPD 32 detergent hydraulic oil

Version: 8 Latest revision: 18. 05. 2022 Date of issue: 20. 07. 2007 Page: 9/(14)

### **SECTION 12** Ecological information

12.1 Toxicity No data for the product.

Components:

Distillates (petroleum), solvent-dewaxed heavy paraffinic (CAS: 64742-65-0)

Fishes:  $LC_{50}$ > 100 mg/L(literature data)  $EC_{50}$ Daphnia: > 100 mg/L(literature data) Other aquatic organisms:  $EC_{50}$ > 100 mg/L(literature data) Algae: ErC<sub>50</sub> > 100 mg/L(literature data) Other living beings: TLM > 1 mg/L(literature data)

Distillates (petroleum), solvent-dewaxed light paraffinic (CAS: 64742-56-9)

2,6-di-tert-butylphenol (CAS: 128-39-2)

Fishes (Oncorhynchus mykiss):  $LC_{50}$ 96 h 13 mg/LFishes (Pimephales promelas): 1,4 mg/L96 h  $LC_{50}$ Daphnia:  $EC_{50}$ 0.45 mg/L48 h Bacterium:  $EC_{50}$ > 1000 mg/L3 h

12.2 Persistence and degradability

Biodegradability: Hydrocarbons are inherently degradable.

2,6-di-tert-butylphenol (CAS: 128-39-2) LogPow: 4.92 (high)

12.3 Bioaccumulative potential No data available.

12.4 Mobility in soil:

Mobility in water:

Absorbs in soil.

Floats on water.

12.5 Results of PBT and vPvB assessment The product does not contain any PBT or vPvB

substance according to annex XIII of regulation (EC) 1907/2006, at a concentration of 0.1% or more.

12.6 Endocrine disrupting properties The mixture does not contain any substance with

endocrine disrupting properties, at a concentration of

0.1% or more.





Trade name: MOL Hydro HLPD 32 detergent hydraulic oil

Version: 8 Latest revision: 18. 05. 2022 Date of issue: 20. 07. 2007 Page: 10/(14)

12.7 Other adverse effects

Heavy metal content: None.

PCT, PCB and other chlorinated

hydrocarbons: None.

Environmental effects: Large spills may be hazardous to the environment.

Spills may form a film on water surfaces causing

impaired oxygen transfer.

Water hazard class (German): WGK 1 (Classification by AwSV)

## **SECTION 13** Disposal considerations

### 13.1 Waste treatment methods

### Product disposal:

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

Waste Identification Code: 13 01 10\*

Mineral based non-chlorinated hydraulic oils.

Waste Identification Code: 13 02 05\*

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

Disposal must be in compliance with national and local regulations.

Recommended waste treatment method: incineration

### Packaging disposal:

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

Waste Identification Code: 15 01 10\*

Packaging containing residues of or contaminated by dangerous substances.

Disposal must be in compliance with national and local regulations.

#### 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.



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

Trade name: MOL Hydro HLPD 32 detergent hydraulic oil

Version: 8 Latest revision: 18. 05. 2022 Date of issue: 20. 07. 2007 Page: 11/(14)

## **SECTION 14** Transport information

Land transport:

Road/Railway ADR/RID: Not classified.

14.1. UN number or ID number:

14.2. UN proper shipping name:
14.3. Transport hazard class(es):
14.4. Packing group:
Not classified.
Not classified.
Not classified.

14.5. Environmental hazards: Not classified.14.6. Special precautions for user: Not classified.

Waterways:

Inland waterways/ Sea transport ADN/IMDG: Not apply to the product.

Air transport: ICAO / IATA: Not apply to the product.

### **SECTION 15** Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This safety data sheet has been prepared according to Regulation (EC) No 1907/2006 (mod.: 2020/878/EU) and to Regulation (EC) 1272/2008. Seveso category: not classified.

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.



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

Trade name: MOL Hydro HLPD 32 detergent hydraulic oil

Version: 8 Latest revision: 18. 05. 2022 Date of issue: 20. 07. 2007 Page: 12/(14)

Classification for mixtures and used evaluation method according to regulation 1272/2008/EC (CLP)

Not classified.

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

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.
 H413 May cause long lasting harmful effects to aquatic life.

Asp. Tox. 1 Aspiration hazard Category 1 Skin Irrit. 2 Skin corrosion/irritation Category 2

Skin Sens. 1 Respiratory/skin sensitization Category 1

Aquatic Acute 1 Hazardous to the aquatic environment, Acute Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, Chronic Category 1
Hazardous to the aquatic environment, Chronic Category 4

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 Labelling 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 Sa fety Assessment
CSR Chemical Sa fety Report
DMEL Derived Minimal Effect Level
DNEL Derived No Effect Level
ECHA European Chemicals Agency



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

Trade name: MOL Hydro HLPD 32 detergent hydraulic oil

Version: 8 Latest revision: 18. 05. 2022 Date of issue: 20. 07. 2007 Page: 13/(14)

Ecx Effective Concentration x%

Edx Effective Dose x%

ELINCS European List of Notified Chemical Substances ErC50 EC50 in terms of reduction of growth rate;

ES Exposure Scenario

IARC International Agency for Research on Cancer
IATA International Air Transport Association
IMDG International Maritime Dangerous Goods

LCx Lethal Concentration x%

LDx Lethal Dose x%

LOAEC Lowest Observed Adverse Effect Concentration

LOAELLowest Observed Adverse Effect LevelLOECLowest Observed Effect ConcentrationLOELLowest Observed Effect Level

NOEC No observed effect concentration 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

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

SVHC Substance of Very High Concern

UVCB substance of unknown or variable composition, complex reaction products or biological

materials

VOC Volatile organic compounds

vPvB Very Persistent and very Bio-accumulative

# **Revision Indicators:**

Section	Subject of change	Date	Version
2	Hazards identification	16.02.2010	2
3	Composition / information on ingredients		
5	Fire-fighting measures		
10	Stability and reactivity		
11	Toxicological information		
15	Regulatory information		
16	Other information		
1-16	Regulatory information, other corrections		
1-16	Regulatory information, other corrections	13, 10, 2010	3





Trade name: MOL Hydro HLPD 32 detergent hydraulic oil

Version: 8 Latest revision: 18. 05. 2022 Date of issue: 20. 07. 2007 Page: 14/(14)

Section	Subject of change	Date	Version
3	Composition/information on ingredients	10.07.2012	4
9	Physical and chemical properties		
1-16	Revision modification according to 1272/2008/EC and		
	453/2010/EC		
3	Composition/information on ingredients	10.09.2012	5
1	Details of the supplier of the safety data sheet,	21. 10. 2015	6
	Responsible for SDS		
3	Composition/information on ingredients		
1-16	Other corrections, revision modification according to		
	2015/830 /EU		
2.2	Label elements	29. 08. 2018	7
3	Composition/information on ingredients		
1-16	Other corrections		
1-16	Revision modification according to 2020/878/EU	18.05.2022	8
	Full revision due to composition change		