

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

Trade name: MOL Hydro HLPD 46 detergent hydraulic oil

Version: 7 Latest revision: 18. 09. 2018 Date of issue: 20. 07. 2007

Page: 1/(12)

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

- 1.1 Product identifier: MOL Hydro HLPD 46 detergent hydraulic oil
- 1.2 Relevant identified uses of the mixture and uses advised against Relevant identified uses: detergent hydraulic oil Uses advised against: no data

 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. 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 80 201 199 (0-24 h, free number). National Health Toxicological Information Service:

SECTION 2 Hazards identification

2.1 Classification of the <u>mixture</u> or substance Hazard Class and Category: Hazard statement: Not classified. -



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

Trade name: MOL Hydro HLPD 46 detergent hydraulic oil

Version: 7 Latest revision: 18. 09. 2018 Date of issue: 20. 07. 2007 Page: 2/(12)

2.2	Label elements	
	Product identification:	Trade name: MOL Hydro HLPD 46 detergent hydraulic oil
	Hazardous component	<u>s):</u> -
	GHS Pictogram: Signal word:	not required not required
	Hazard statement: not required	
	Supplemental hazard in EUH208	nformation: 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 statement	its – General: -
	Precautionary statement	
	P273	Avoid release to the environment.
	Precautionary statement	ts – Response: -
	Precautionary statement	ts – Storage: -
	Precautionary statemen P501	ts – Disposal: Dispose of contents/container in accordance with national regulation.
	Other liabilities for lab Tactile warning of dan Transport classification	ger: Not required.
2.3	Other hazards The product does not c (EC) 1907/2006.	ontain any PBT or vPvB substance according to annex XIII of regulation



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

Trade name: MOL Hydro HLPD 46 detergent hydraulic oil

Version: 7 Latest revision: 18. 09. 2018 Date of issue: 20. 07. 2007

Page: 3/(12)

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	CAS	Hazard classes and	Hazard	Conc.
	number	number	cat.	statements	%(m/m)
Lubricating oils (petroleum), C24-C50* REACH Registr. Nr.: 01-2119489969-06	309-877-7	101316-72-7	(Note L)	-	max. 99
Lubricating oils (petroleum), C18-40* REACH Registr.Nr.: 01-2119486987-11	305-594-8	94733-15-0	(Note L)	-	max. 60
Distillates (petroleum), dewaxed light paraffinic, hydrotreated REACH Registr. Nr.: 01-2119488517-24	295-301-9	91995-40-3	Asp. Tox. 1 (Note L)	H304	max. 25
Zinc bis[O,O-bis(2- ethylhexyl)] bis(dithiophosphate) REACH Registr. Nr.: 01-2119493635-27	224-235-5	4259-15-8	Eye Dam. 1 Aquatic Chronic 2	H318 H411	max. 0.5
2,6-di-tert-butylphenol REACH Registr.Nr.: 01-2119490822-33	204-884-0	128-39-2	Skin Irrit. 2 Aquatic Acute 1 Aquatic Chronic 1	H315 H400 (M=1) H410 (M=1)	max. 0.17
Benzoic acid, hydroxy-, mono-C20-28 branched alkyl derivs., Calcium salts (2:1)	polymer	900185-23-1	Skin Sens. 1 Aquatic Chronic 4	H317 H413	max. 0.2

*: with exposure limit

The full text of each relevant H- phrase, 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.



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

Trade name: MOL Hydro HLPD 46 detergent hydraulic oil

Version: 7 Latest revision: 18. 09. 2018 Date of issue: 20. 07. 2007 Page: 4/(12)

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.
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.

4.3 Indication of any immediate medical attention and special treatment need Not required.

SECTION 5 Fire-fighting measures

Fire hazards: Combustible

4.2

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 <u>mixture</u> or substance

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. 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.



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

Trade name: MOL Hydro HLPD 46 detergent hydraulic oil

Version: 7 Latest revision: 18. 09. 2018 Date of issue: 20. 07. 2007

Page: 5/(12)

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.

- 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.



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

Trade name: MOL Hydro HLPD 46 detergent hydraulic oil

Version: 7 Latest revision: 18. 09. 2018 Date of issue: 20. 07. 2007

Page: 6/(12)

SECTION 8 Exposure controls / personal protection

Engineering control measures: Not required.

- 8.1 Control parameters:
 - *Mineral oil mist:* TWA: **5 mg/m³**; STEL: 10 mg/m³, for oil mist, vapour excluded (ACGIH).

Method of testing, recommended: NIOSH 5026

8.2 Exposure controls

Personal protection:	
Respiratory protection:	Under normal conditions it is not necessary. In case of exceeded exposure-limits respiratory protection with particle-filter is recommended.
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:	Where splashing is possible, wear safety glasses (EN 166).
Skin protection:	Protective clothing (oil resistant).
Other special:	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

Appearance:	
Physical state:	liquid
Colour:	yellow, bright, clear
Odour:	characteristic, not unpleasant
Change in physical state:	
Pour point (ISO 3016):	typ24°C
Boiling point (DIN 51356):	not available
Others:	
Flash point (COC) (EN ISO 2592):	typ. 225°C
Ignition point (EN ISO 2592):	not available
Autoignition temperature:	not available



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

MOL Hydro HLPD 46 detergent hydraulic oil Trade name:

Version: 7 Latest revision: 18. 09. 2018 Date of issue: 20. 07. 2007 Page: 7/(12)

9.2	Explosive properties: Oxidizing properties: Vapour pressure at 20°C Density at 15°C (EN ISC Solubility in water: Solubility in other solve n-Octanol/water partition Vapour density: Heating value: Kinematic viscosity at 4 Kinematic viscosity at 1 pH: Other information no data available	O 12185): nts: n coefficient: .0°C (EN ISO 3104):	not explosive not oxidize negligible 0.866-0.880 g/cm ³ practically insoluble in water gasoline, kerosene, toluene, etc. not available not available inf. 38 000 kJ/kg typ. 47 mm ² /s typ. 6.85 mm ² /s not applicable
SEC	TION 10 Stability and	reactivity	
10.1	Reactivity:	Dangerous reactivity n	ot known.
10.2	Chemical stability:	No decomposition if st	tored 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 No dangerous decomposition products are formed under normal conditions. Hazardous combustion products: See Section 5. products:

SECTION 11 Toxicological information

11.1	Information on to	oxicological effec	ts		
	Acute toxicity:				
	Oral:	LD_{50} (rat)	> 2000	mg/kg	(based on components)
	Dermal:	LD ₅₀ (rabbit)	> 2000	mg/kg	(based on components)



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

Trade name: MOL Hydro HLPD 46 detergent hydraulic oil

Version: 7 Latest revision: 18. 09. 2018 Date of issue: 20. 07. 2007 Pa

Page: 8/(12)

		ed on components) ed on components)
	Respiratory or skin sensitisation:	not sensitising (based on components), but may produce an allergic reaction.
	Other information, specific effects	3:
		a carcinogen need not apply according to 1272/2008/EC, the substance contains less than 3 % DMSO extract as
	Germ cell mutagenicity: Carcinogenicity:	not known, resp. not mutagen (based on components) not known, resp. not carcinogen (based on components)
	Reproductive toxicity:	not known, resp. no reproduction-damaging effect (based on components)
	STOT-single exposure: STOT-repeated exposure: Aspiration hazard:	not classified not classified not classified
SEC	TION 12 Ecological information	1
12.1	Toxicity No dat Aquatic organisms: Soil organisms: Plants:	a for the product.
12.2	Persistence and degradability Biodegradability:	No data available. No data available.
12.3	Bioaccumulative potential	No data available.
12.4	Mobility Mobility in soil Mobility in water:	Absorbs in soil. Floats on water.
12.5 12.6	Results of PBT and vPvB assessme	
	Heavy metal content: PCT, PCB and other chlorinated	None.
	hydrocarbons: Environmental effects:	None. Spills may form a film on water surfaces causing impaired oxygen transfer.
	Water hazard class (German):	WGK 1 (Classification by VwVwS)



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

Trade name: MOL Hydro HLPD 46 detergent hydraulic oil

Version: 7 Latest revision: 18. 09. 2018 Date of issue: 20. 07. 2007

Page: 9/(12)

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.

SECTION 14 Transport information

Ι	Land transport:		
	Road/ Railway	ADR/RID:	Not classified.
14.1.	UN number:		Not classified.
14.2.	UN proper shipping name:		Not classified.
14.3.	Transport hazard class(es):		Not classified.
14.4.	Packing group:		Not classified.
14.5.	Environmental hazards:		Not classified.
14.6.	Special precautions for user:		Not classified.
V	Waterways:		
	Inland waterways/ Sea transport	ADN/IMDG:	Not apply to the product.
A	Air transport:	ICAO / IATA:	Not apply to the product.



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

Trade name: MOL Hydro HLPD 46 detergent hydraulic oil

Version: 7 Latest revision: 18. 09. 2018 Date of issue: 20. 07. 2007

Page: 10/(12)

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 (mod.: 2015/830/EU) 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 1272/2008/EC regulation, Annex XVII. of REACH Relevant Hungarian and EU regulations

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.
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.
H413	May cause long lasting harmful effects to aquatic life.



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

Trade name: MOL Hydro HLPD 46 detergent hydraulic oil

Version: 7 Latest revision: 18. 09. 2018 Date of issue: 20. 07. 2007 Page: 11/(12)

Skin corrosion/irritation Category 2 Respiratory/skin sensitization Category 1 Serious eye damage/eye irritation Category 1 Hazardous to the aquatic environment, Acute Category 1 Hazardous to the aquatic environment, Chronic Category 1
Serious eye damage/eye irritation Category 1 Hazardous to the aquatic environment, Acute Category 1
Hazardous to the aquatic environment, Acute Category 1
Hazardous to the aquatic environment, Chronic Category 1
Hazardous to the aquatic environment, Chronic Category 2
Hazardous to the aquatic environment, Chronic Category 4
European Agreement concerning the International Carriage of Dangerous Goods by In Waterways
European Agreement concerning the International Carriage of Dangerous Goods by Re
Acute Toxicity Estimate
Bioconcentration factor
Biological Oxygen Demand
Body Weight
Classification and Labelling
Chemical Abstracts Service
Classification, Labelling and Packaging
Carcinogenic, Mutagenic or Toxic for Reproduction
Chemical Oxygen Demand
Chemical Safety Assessment
Chemical Safety Report
Derived Minimal Effect Level
Derived No Effect Level
European Chemicals Agency
Effective Concentration x%
Effective Dose x%
European List of Notified Chemical Substances
EC50 in terms of reduction of growth rate;
Exposure Scenario
European Chemical Substances Information System
International Agency for Research on Cancer
International Air Transport Association
International Maritime Dangerous Goods
Lethal Concentration x%
Lethal Dose x%
Lowest Observed Adverse Effect Concentration Lowest Observed Adverse Effect Level
Lowest Observed Effect Concentration
Lowest Observed Effect Level
No observed effect concentration



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

Trade name: MOL Hydro HLPD 46 detergent hydraulic oil

Version: 7 Latest revision: 18. 09. 2018 Date of issue: 20. 07. 2007

Page: 12/(12)

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	16.02.2010	2
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
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	18.09.2018	7
3	Composition/information on ingredients		
11	Toxicological information		
2.2, 14	Regulatory information.		
1-16	Other corrections		