

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

Trade name:MOL Hydro HV 68 multigrade hydraulic oilVersion: 5Latest revision: 07. 08. 2018Date of issue: 20. 06. 2007

Page: 1/(12)

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

- 1.1 Product identifier: MOL Hydro HV 68 multigrade hydraulic oil
- 1.2 Relevant identified uses of the <u>mixture</u> or substance and uses advised against Relevant identified uses: multigrade 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 HV 68 multigrade hydraulic oilVersion: 5Latest revision: 07. 08. 2018Date of issue: 20. 06. 2007

Page: 2/(12)

2.2	Label elements					
	Product identification:	Trade name: MOL Hydro HV 68 multigrade hydraulic oil				
	Hazardous components:	-				
	GHS Pictogram: Signal word:	not required not required				
	Hazard statement: not required					
	Supplemental hazard information:EUH210Safety data sheet available on request.					
	Precautionary statements	– General: -				
	Precautionary statements P273	 Prevention: Avoid release to the environment. 				
	Precautionary statements	– Response: -				
	Precautionary statements	– Storage: -				
	Precautionary statements P501	 Disposal: Dispose of contents/container in accordance with national regulation. 				
	Other liabilities for labell Tactile warning of danger Transport classification:	r: Not required.				
2.3	Other hazards The product does not cont (EC) 1907/2006.	ain any PBT or vPvB substance according to annex XIII of regulation				
SEC	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	(Note L)	-	max. 92



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

Trade name: MOL Hydro HV 68 multigrade hydraulic oil

Version: 5 Latest revision: 07. 08. 2018 Date of issue: 20. 06. 2007

Page: 3/(12)

Name	EU	CAS	Hazard classes and	Hazard	Conc.
Name	number	number	cat.	statements	%(m/m)
Lubricating oils	305-594-8	94733-15-0	-	-	max. 70
(petroleum), C18-40*			(Note L)		
REACH Registr. Nr.:					
01-2119486987-11					
Distillates (petroleum),	295-301-9	91995-40-3	Asp.Tox.1	H304	max. 10
dewaxed light			(Note L)		
paraffinic, hydrotreated					
REACH Registr.Nr.:					
01-2119488517-24					
Zinc alkyl	272-028-3	68649-42-3	Eye Dam. 1	H318	max. 0.55
dithiophospate			Aquatic Chronic. 2	H411	
Alkylphenol	204-884-0	128-39-2	Skin Irrit. 2	H315	max. 0.17
			Aquatic Acute 1	H400 (M=1)	
			Aquatic Chronic 1	H410 (M=1)	

*: 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. In the event of a complaint, call medical attention.
 - Skin contact: Remove contaminated clothing. Wash skin with large amounts of water, use soap. In the event of a complaint, get medical attention.
 - Eye contact: Flush eyes with plenty of water for 10-15 minutes. In the event of a complaint, get medical attention.
 - Ingestion: If swallowed, give water. Do not induce vomiting. Get medical attention.

Protection of first-aid person: General protection measures.

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.



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

Trade name: MOL Hydro HV 68 multigrade hydraulic oil

Version: 5 Latest revision: 07. 08. 2018 Date of issue: 20. 06. 2007

Page: 4/(12)

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 <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.

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.



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

Trade name:MOL Hydro HV 68 multigrade hydraulic oilVersion: 5Latest revision: 07. 08. 2018Date of issue: 20. 06. 2007Page: 5/(12)

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: 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) Multigrade hydraulic oil.

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



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

Trade name:MOL Hydro HV 68 multigrade hydraulic oilVersion: 5Latest revision: 07. 08. 2018Date of issue: 20. 06. 2007Page: 6/(12)

8.2 **Exposure** controls Personal protection: Respiratory protection: Under normal conditions not required. 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. Where splashing is possible, wear safety glasses (EN 166). Eye protection: 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

Information on basic physical and chemical properties					
Appearance:	11 1 -1				
Physical state:	liquid				
Colour:	yellow, clear, bright				
Odour:	characteristic				
Change in physical state:					
Pour point (ISO 3016):	typ33°C				
Boiling point (DIN 51356):	not available				
Others:					
Flash point (COC) (EN ISO 2592):	typ. 230°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):	$0.873-0.887 \text{ g/cm}^3$				
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				
Heating value:	inf. 38 000 kJ/kg				



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

typ. 68.4 mm²/s

typ. 11.2 mm²/s not applicable

Trade name:MOL Hydro HV 68 multigrade hydraulic oilVersion: 5Latest revision: 07. 08. 2018Date of issue: 20. 06. 2007

Page: 7/(12)

Kinematic viscosity at 40°C (EN ISO 3104): Kinematic viscosity at 100°C (EN ISO 3104): pH:

9.2 Other information no data available

SECTION 10 Stability and reactivity

10.2	Reactivity: Chemical stability: Possibility of hazardous	Dangerous reactivity not known. No decomposition if stored and handled properly.
	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
	products:	conditions. Hazardous combustion products: See Section 5.

SECTION 11 Toxicological information

Oral:	LD_{50} (rat)	> 2000	mg/kg	(based on components)
Dermal:	LD ₅₀ (rabbit)	> 2000	mg/kg	(based on components)
Skin:	not irritant (bas	ed on comp	onents)	
	not ninant (bas	cu on comp	Unemes)	

Other information, specific effects:

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.



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

Trade name:MOL Hydro HV 68 multigrade hydraulic oilVersion: 5Latest revision: 07. 08. 2018Date of issue: 20. 06. 2007Page: 8/(12)

Germ cell mutagenicity: not known, Carcinogenicity: not known, Reproductive toxicity: not known (based on c

STOT-single exposure: STOT-repeated exposure: Aspiration hazard: not known, resp. not mutagen (based on components) not known, resp. not carcinogen (based on components) not known, resp. no reproduction-damaging effect (based on components) not classified not classified not classified

SECTION 12 Ecological information

	_	
12.1	Toxicity	No data for the product.
	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 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.



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

Trade name:MOL Hydro HV 68 multigrade hydraulic oilVersion: 5Latest revision: 07. 08. 2018Date of issue: 20. 06. 2007Page

Page: 9/(12)

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

	L	and transport:		
		Road/ Railway	ADR/RID:	Not classified.
14	.1.	UN number:	-	
14	.2.	UN proper shipping name:	-	
14	.3.	Transport hazard class(es):	-	
14	.4.	Packing group:	-	
14	.5.	Environmental hazards:	-	
14	.6.	Special precautions for user:	-	
	W	aterways:		
		Inland waterways/ Sea transport	ADN/IMDG:	Not apply to the product.
	А	ir 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 HV 68 multigrade hydraulic oilVersion: 5Latest revision: 07. 08. 2018Date of issue: 20. 06. 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 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.



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

Trade name:MOL Hydro HV 68 multigrade hydraulic oilVersion: 5Latest revision: 07. 08. 2018Date of issue: 20. 06. 2007Page: 11/(12)

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 Acu	
Aquatic Chr	onic 1 Hazardous to the aquatic environment, Chronic Category 1
Aquatic Chr	onic 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	Biocontrentration Factor
BOD	Biological Oxygen Demand
Bw	Body Weight
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	Carcigonic, Mutagenic or toxic to Reproduction
COD	Chamical Oxygen Demand
CSA	Chemical Safety Assessment
CSR	Chemical Safety Report
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
ECHA	European Cheamicals Agency
Ecx	Effective Concentration x%
ErC50	EC50 in terms of reduction of growth rate
Edx	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
LCx	Lethal Concentration x%
LDx	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



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

Trade name: MOL Hydro HV 68 multigrade hydraulic oil

Version: 5 Latest revision: 07. 08. 2018 Date of issue: 20. 06. 2007

Page: 12/(12)

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
ppm	parts/million
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
3	Composition/information on ingredients	11.11.2011	2
1-16	Revision modification according to 1272/2008/EC and		
	453/2010/EC		
3	Composition/information on ingredients	10.07.2012	3
9	Physical and chemical properties		
1	Details of the supplier of the safety data sheet,	02.11.2015	4
	Responsible for SDS		
3	Composition/information on ingredients		
1-16	Other corrections, revision modification according to		
	2015/830 /EU		
2.2	Label elements	07.08.2018	5
3	Composition/information on ingredients		
1-16	Other corrections		