according to regulation 1907/2006/EC (REACH) and 1272/2008/EC

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

- 1.1 Product identifier: MOL Hydro HV 46 multigrade hydraulic oil
- 1.2 Relevant identified uses of <u>the 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 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 (07-15<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:

### Section 2 Hazards identification

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

Label elements 1272/2008/EC

Product identification:

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### Hazardous components: not required GHS Pictogram: Signal word: not required Hazard statement: not required Supplemental hazard information: -Precautionary statements - General: -Precautionary statements – Prevention: Avoid release to the environment. P273 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. Section 3 **Composition/information on ingredients** 3.2 Mixtures

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

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Component(s) / Hazardous component(s):

| Name                                   | EU        | CAS          | Hazard classes and      | Hazard     | Conc.    |
|--|-----------|--------------|-------------------------|------------|----------|
| Indille                                | number    | number       | cat.                    | statements | %(m/m)   |
| Lubricating oils                       | 305-594-8 | 94733-15-0   | -                       | - \        |          |
| (petroleum), C18-40*                   |           |              | (Note L)                |            |          |
| REACH Registr.Nr.:                     |           |              |                         |            |          |
| 01-2119486987-11                       |           |              |                         |            |          |
| Base oil – unspecified,                | 265-157-1 | 64742-54-7   | -                       | - (        | max. 85  |
| hydrotreated heavy                     |           |              | (Note L)                | 5          | -        |
| paraffinic, C20-C50*                   |           |              |                         |            |          |
| Lubricating oils                       | 309-874-0 | 101316-69-2  | -<br>(NI-(I-)           | -          |          |
| (petroleum), C>25*                     |           |              | (Note L)                |            |          |
| REACH Registr.Nr.:<br>01-2119486948-13 |           |              |                         | J          |          |
|  | 309-877-7 | 101316-72-7  | Ace Toy 1               | H304       | max. 50  |
| Lubricating oils (petroleum), C24-C50* | 509-877-7 | 101310-72-7  | Asp. Tox. 1<br>(Note L) | H304       | max. 50  |
| REACH Registr. Nr.:                    |           |              | (Note L)                |            |          |
| 01-2119489969-06                       |           |              |                         |            |          |
| Mixture of refined                     |           | see Note     | Asp. Tox. 1             | H304       | max. 5   |
| petroleum distillates **               |           |              | (Note L)                |            |          |
| Zinc alkyl                             | 272-028-3 | 68649-42-3   | Eye Dam. 1              | H318       | max. 0.6 |
| dithiophospate                         |           |              | Aquatic Chronic. 2      | H411       |          |
| Alkyl phenol                           |           | confidential | Aquatic Acute 1         | H400       | max. 0.2 |
|  |           |              | Aquatic Chronic 1       | H410       |          |

\*: with exposure limit

\*\* CAS number: 64742-55-8, 64742-54-7, 64741-88-4, 64742-65-0

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 infor | mation: 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          | Remove contaminated clothing. Wash skin with large amounts of water, use   |
| contact:      | 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.   |



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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 <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-fightersSpecial protective equipment: According to the existing fire-fighting regulations. Respiratory protection.

Further information:

\_

#### 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.

according to regulation 1907/2006/EC (REACH) and 1272/2008/EC

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| 6.3  | Methods and n<br>On soil:<br>On water:   | naterial for containment and cleaning up<br>All kind of ignition sources should be remove. Recover free liquid by<br>pumping. Contain the rest or small quantities with sand, earth or other<br>suitable absorbents. Dispose of according to local regulations.<br>Confine the spillage. Remove from surface by skimming or suitable<br>absorbents. Notify local authorities according to regulations.                              |  |
|------|--|---|--|
| 6.4  |  |   |  |
| Sect | ion 7 Har  | idling and storage  |  |
| 7.1  | liquids.<br>Keep away<br>Avoid conta<br>Ensure was<br>oil-soaked o<br>When using   | r safe handling<br>ral measures applied for normal operations with lubricants and flammable<br>from radiant heat and open flame.<br>act with skin and eyes. Avoid prolonged breathing of oil vapours or mists.<br>hing facilities after working hours and before breaks. Take off contaminated or<br>clothing, wash with warm water and soap.<br>g do not eat, drink or smoke. Avoid splashing the product.<br>mperature: not known |  |
| 7.2  | Conditions for safe storage, including any incompatibilities<br>Storage facilities must comply with regulations for storing of flammable liquids.<br>Store in dry, well ventilated place in original, closed containers.<br>Keep away from radiant heat, open flame and strong oxidizing agents.<br>Storage temperature: max. 40°C |   |  |
| 7.3  | Specific end use(s)<br>Multigrade hydraulic oil.   |   |  |
| Sect | ion 8 Exp  | osure controls / personal protection  |  |
|      | Engineering co<br>Not require  | ontrol measures:<br>d.  |  |
| 8.1  | Control param<br><i>Mineral oil</i><br>Method of t   | 3   |  |

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| 8.2  | Exposure controls<br>Personal protection:<br>Respiratory protection:<br>Hand protection:<br>Eye protection:<br>Skin protection:<br>Other special: | Breathing apparatus not required.<br>Oil resistant gloves (EN 374, Breakthrough time 480 min)<br>(e.g. nitrile rubber – minimal thickness 0.33 mm).<br>Note: Manufacturer's directions for use and the conditions of<br>application should be observed.<br>Safety goggles not required.<br>Protective clothing (oil resistant).<br>no data |                                   |  |
|------|---|--|-----------------------------------|--|
|      | Environmental exposure con<br>Do not discharge into dra   | ontrols:<br>lrains/surface waters/groundwater.   |                                   |  |
| Sect | ion 9 Physical and che  | mical properties   |                                   |  |
| 9.1  | Information on basic physic<br>Appearance:  | al and chemical pro  | operties                          |  |
|      | Physical state:   |  | liquid                            |  |
|      | Colour:   |  | yellow, clear                     |  |
|      | Odour:  |  | characteristic                    |  |
|      | Change in physical state:   |  |                                   |  |
|      | Pour point (ISO 3016):  |  | typ42°C                           |  |
|      | Boiling point:  |  | not available                     |  |
|      | Others:   |  |                                   |  |
|      | Flash point (COC) (EN   | ISO 2592):   | typ. 220°C                        |  |
|      | Ignition point (EN ISO  |  | not available                     |  |
|      | Autoignition temperatur   | e:   | not available                     |  |
|      | Explosive properties:   |  | not explosive                     |  |
|      | Oxidizing properties:   |  | not oxidize                       |  |
|      | Vapour pressure at 20°C   |  | negligible                        |  |
|      | Density at 15°C (EN IS  | O 12185):  | 0.855-0.875 g/cm <sup>3</sup>     |  |
|      | Solubility in water:  |  | practically insoluble in water    |  |
|      | Solubility in other solve   |  | gasoline, kerosene, toluene, etc. |  |
|      | n-Octanol/water partitio  | n coefficient:   | not available                     |  |
|      | Vapour density:   |  | not available                     |  |
|      | Heating value:  |  | inf. 38 000 kJ/kg                 |  |

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Kinematic viscosity at 40°C (EN ISO 3104):typ. 45.1 mm²/sKinematic viscosity at 100°C (EN ISO 3104):typ. 8.1 mm²/spH: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  | No dangerous decomposition products are formed under normal |
|      | products:                | conditions. Hazardous combustion products: See Section 5.   |
|      |                          |   |

#### Section 11 Toxicological information

11.1 Information on toxicological effects Acute toxicity: Oral:  $LD_{50}$  (rat) > 2000mg/kg (based on components) (based on components) Dermal: LD<sub>50</sub> (rabbit) > 2000mg/kg Acute toxicity: irritation Skin: not irritant (based on components) Eye: not irritant (based on components), causes serious eye irritation Prolonged and/or repeated contact may cause irritation on skin or in eyes Note: depending on individual sensitivity. Respiratory or skin sensitisation: not sensitising (based on components) 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.

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

### Section 12 Ecological information

| 12.1          | Toxicity 1                  | No data for the product.                         |
|---------------|-----------------------------|--|
|               | Aquatic organisms:          |  |
|               | Soil organisms:             |  |
|               | Plants:                     |  |
| 12.2          | Persistence and degradabili | ty 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 Does not contain PBT and vPvB substances.   |
|               | assessment                  |  |
| 12.6          | Other adverse effects       |  |
|               | Heavy metal content:        | None.  |
|               | PCT, PCB and other chlori   | nated None.                                      |
|               | hydrocarbons:               |  |
|               | Environmental effects:      | Spills may form a film on water surfaces causing |
|               |                             | impaired oxygen transfer.                        |
|               | Water hazard class (Germa   | n): WGK 1 (Classification by VwVwS)              |
|               |                             |  |

### 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.

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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.

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

| Land trar                         | Land 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 use |                                   | er           |                           |  |  |
| Waterwa<br>Inland                 | ys:<br>1 waterways/ Sea transport | ADN/IMDG:    | Not apply to the product. |  |  |
| Air transport:                    |                                   | ICAO / IATA: | Not apply to the product. |  |  |

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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 (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 Hungarian and EU lists of dangerous substances

Relevant Hungarian regulation and EU directives

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.         |
|------|---|
| 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<br>Eye Dam. 1<br>Aquatic Acu<br>Aquatic Chro<br>Aquatic Chro | Diric 1 Hazardous to the aquatic environment, Chronic Category 1                                |  |  |
|--|---|--|--|
| 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   |  |  |
| 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  |  |  |

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| 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                | 26.11.2008 | 2       |
| 9       | Physical and chemical properties                      |            |         |
|         | Other corrections                                     |            |         |
| 3       | Composition/information on ingredients                | 11.11.2011 | 3       |
| 1-16    | Revision modification according to 1272/2008/EC and   |            |         |
|         | 453/2010/EC   |            |         |
| 3       | Composition/information on ingredients                | 22.11.2012 | 4       |
| 9       | Physical and chemical properties                      |            |         |
| 1       | Details of the supplier of the safety data sheet,     | 11.09.2015 | 5       |
|         | Responsible for SDS                                   |            |         |
| 2       | Other hazards   |            |         |
| 3       | Composition/information on ingredients                |            |         |
| 5       | Fire hazards  |            |         |
| 9       | Physical and chemical properties                      |            |         |
| 14      | Transport information                                 |            |         |
| 1-16    | Other corrections, Revision modification according to |            |         |
|         | 2015/830/EU   |            |         |
| 3       | Composition/information on ingredients                | 02.11.2015 | 6       |
| 1-16    | Other corrections                                     |            |         |