



SAFETY DATA SHEET

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

MOL-LUB Ltd.

Trade name: **MOL Dynamic Transit 10W-40 universal engine oil**

Version: 10 Latest revision: 15. 02. 2018 Date of issue: 20. 06. 2007 Page: 1/(14)

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

1.1 Product identifier:

MOL Dynamic Transit 10W-40 universal engine oil

1.2 Relevant identified uses of the mixture and uses advised against

Relevant identified uses: universal engine 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 mixture or substance

Hazard Class and Category: Hazard statement:

Eye Irrit. 2

H319

Causes serious eye irritation.

Aquatic Chronic 3

H412

Harmful to aquatic life with long lasting effects.



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2.2 Label elements

Product identification: Trade name: **MOL Dynamic Transit 10W-40 universal engine oil**

Hazardous components: -

GHS Pictogram:



Signal word: **Warning**

Hazard statement:

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Supplemental hazard information:

EUH208 Contains Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts. May produce an allergic reaction

Precautionary statements – Prevention:

P280 Wear eye/face protection.

P273 Avoid release to the environment.

Precautionary statements – Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

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.



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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.

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. 50 |
| Lubricating oils (petroleum), C18-40* REACH Registr.Nr.: 01-2119486987-11 | 305-594-8 | 94733-15-0 | - (Note L) | - | max. 50 |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic C20- C50* REACH Registr. Nr.: 01-2119471299-27 | 265-169-7 | 64742-65-0 | - (Note L) | - | max. 45 |
| Base oil – unspecified, hydrotreated heavy paraffinic, C20-C50* REACH Registr. Nr.: 01-2119484627-25 | 265-157-1 | 64742-54-7 | - (Note L) | - | max. 40 |
| Lubricating oils (petroleum), C ₂₀₋₅₀ , hydrotreated neutral oil-based | 276-738-4 | 72623-87-1 | Asp. Tox. 1 (Note L) | H304 | max. 30 |
| Base oil – unspecified, hydrotreated heavy paraffinic, C20-C50* REACH Registr. Nr.: 01-2119484627-25 | 265-157-1 | 64742-54-7 | Asp. Tox. 1 (Note L) | H304 | max. 15 |



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| Name | EU number | CAS number | Hazard classes and cat. | Hazard statements | Conc. % (m/m) |
|--|-----------|-------------|--|---|---------------|
| 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. 10 |
| Mineral oil raffinate mixture* | | mixture | - (Note L) | - | max. 6 |
| Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts REACH Registr.Nr.: 01-2119493626-26 | 283-392-8 | 84605-29-8 | Skin Irrit. 2 Eye Dam. 1 Aquatic Chronic 2 | H315 H318 H411 | max. 1.2 |
| Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts REACH Registr.Nr.: 01-2119492616-28 | 274-263-7 | 70024-69-0 | Skin Sens. 1B. | H317 | max. 0.6 |
| O,O,O-triphenyl phosphorothioate | 209-909-9 | 597-82-0 | Repr. 2 Aquatic Chronic 4 | H361fd H413 | max. 0.12 |
| Phenol, dodecyl-, branched REACH Registr.Nr.: 01-2119513207-49 | 310-154-3 | 121158-58-5 | Skin Corr. 1C Eye Dam. 1 Repr. 1B Aquatic Acute1 Aquatic Chronic 1 | H314 H318 H360F H400 (M=10) H410 (M=10) | < 0.04 |

*: 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: 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.

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Protection of first-aid person: No data available.

4.2 Most important symptoms and effects, both acute and delayed

Eye irritation.

Sensitising.

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 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.

6.2 Environmental precautions:

Confine spills to prevent material from entering sewers, watercourses, drains and into soil Notify relevant authority.



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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 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)

Universal engine 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



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8.2 Exposure controls

Personal protection:

- Respiratory protection: Breathing apparatus not required.
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: Tightly fitting safety goggles (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: brown, bright, clear
Odour: characteristic

Change in physical state:

- Pour point (ISO 3016): typ. -39°C
Boiling point: 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): 0.864 – 0.884 g/cm³
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
Kinematic viscosity at 40°C (EN ISO 3104): not available
Kinematic viscosity at 100°C (EN ISO 3104): typ. 14.49 mm²/s
pH: not applicable



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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) |
| Note: | Prolonged and/or repeated contact may cause irritation on skin depending on individual sensitivity. |
| Eye: | irritant (based on components), causes serious eye irritation |

Respiratory or skin sensitisation: not sensitising (based on components), but may produce an allergic reaction

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: | 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 classified |
| STOT-repeated exposure: | not classified |
| Aspiration hazard: | not classified |

SECTION 12 Ecological information

12.1 Toxicity

Aquatic organisms:

Fish: LC₅₀ > 500 mg/l/96 h

Algae: EC₅₀ 137 mg/l

Daphnia: EC₅₀ > 100 mg/l/24 h

Daphnia: EC₅₀ 82 mg/l/48 h

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: Harmful to aquatic life with long lasting effects.

Water hazard class (German): WGK 3 (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 02 05*

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

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

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 user: | - |

Waterways:

Inland 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
1272/2008/EC regulation, Annex XVII. of REACH
Relevant Hungarian regulation and EU directives

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

| | | |
|-------------------|------|----------------------|
| Eye Irrit. 2 | H319 | (calculated method) |
| Aquatic Chronic 3 | H412 | (based on test data) |

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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. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H360F | May damage fertility. |
| H361fd | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| 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. |
| Asp.Tox.1 | Aspiration hazard Category 1 |
| Skin Corr. 1C | Skin corrosion/irritation Category 1C |
| Skin Sens. 1B | Respiratory/skin sensitization Category 1B |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Repr. 1B | Reproductive toxicity Category 1B |
| Repr. 2 | Reproductive toxicity Category 2 |
| 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 |
| Aquatic Chronic 4 | 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 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 |



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| | |
|-----------------|---|
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No Effect Level |
| ECHA | European Chemicals Agency |
| Ec _x | Effective Concentration x% |
| ErC50 | EC50 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 |
| 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 |
|---------|--|------------|---------|
| 2 | Hazards identification | 23.03.2009 | 2 |
| 3 | Composition / information on ingredients | | |
| 1-16 | Other correction | | |
| 1-16 | Regulatory information, other corrections | 18.08.2010 | 3 |
| 3 | Composition/information on ingredients | 20.07.2012 | 4 |
| 9 | Physical and chemical properties | | |
| 1-16 | Revision modification according to 453/2010/EC | | |



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| Section | Subject of change | Date | Version |
|---|--|--------------|---------|
| 2 3 9 11 1-16 | Hazards identification Composition/information on ingredients Physical and chemical properties Toxicological information Revision modification according to 1272/2008/EC | 26.11.2012 | 5 |
| 2 3 11 | Hazards identification Composition/information on ingredients Toxicological information | 17.05.2013 | 6 |
| 3 | Checking classification by CLP of components | 07.06.2013 | 7 |
| 1 2 3 5 9 12 14 1-16 | Details of the supplier of the safety data sheet, Responsible for SDS Other hazards Composition/information on ingredients Fire hazards Physical and chemical properties Ecological information Transport information Other corrections | 20.07.2015 | 8 |
| 2 3 9 12 | Hazards identification Composition/information on ingredients Physical and chemical properties Ecological information | 24. 10. 2016 | 9 |
| 3 9 12 1-16 | Composition/information on ingredients Physical and chemical properties Ecological information Other corrections, revision modification according to 2015/830 /EU | 15.02.2018 | 10 |