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

1.1 Product identifier:
MOL Farm Protect E9 15W-40 multigrade diesel engine oil

1.2 Relevant identified uses of the mixture and uses advised against
Relevant identified uses: multigrade diesel engine 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

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 and HSE
Phone: +36 34 526 343; Mobile: +36 20 474 2644
e-mail: csahorvath@mol.hu

Technical information:
MOL-LUB Ltd. Product Development and Technical Service
H-1117 Budapest, Október huszonharmadika utca 18., Hungary
Phone/Fax: +36 80 201 296 or +36 1 464 0236 / +36 1 464 0304

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 1 476 6464, or +36 80 201 199
National Health Toxicological Information Service:

2. Hazards identification

2.1 Classification of the mixture

2.1.1 Classification of the mixture according to regulation 1272/2008/EC

<table>
<thead>
<tr>
<th>Hazard Class and Category</th>
<th>Hazard statement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye Irrit. 2</td>
<td>H319</td>
</tr>
<tr>
<td></td>
<td>Causes serious eye irritation.</td>
</tr>
</tbody>
</table>
2.1.2 Classification of the substance according to regulation 1999/45/EC

Human health hazards: Danger symbol not required.

Note: Prolonged and/or repeated contact may cause irritation on skin or in eyes depending on individual sensitivity, and/or skin sensitization (See also Protective equipment).

Safety hazards: Danger symbol not required.

Environmental hazards: Danger symbol not required.

Note: Spills may form a film on water surfaces causing impaired oxygen transfer.

2.2 Label elements 1272/2008/EC

Product identification: Trade name: **MOL Farm Protect E9 15W-40 multigrade diesel engine oil**

GHS Pictogram: ![Warning]

Signal word: **Warning**

Hazard statement: **H319** Causes serious eye irritation.

Supplemental hazard information:
**EUH208** Contains Long chain alkyl thio carbamide metal complex. May produce an allergic reaction.

Precautionary statements – Prevention:
**P280** Wear eye/face protection.
**P273** Avoid release to the environment.

Precautionary statements – Response:
**P305 + P351 +** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
**P338** If eye irritation persists: Get medical advice/attention.

Precautionary statements – Disposal:
**P501** Dispose of contents/container in accordance with national regulation.
SAFETY DATA SHEET

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

MOL-LUB Ltd.

Trade name: MOL Farm Protect E9 15W-40 multigrade diesel engine oil

Version: 1 Latest revision: Date of issue: 20.01.2014 Page: 3/14

Other liabilities for labelling:
Tactile warning of danger: Not required.
Transport classification: see section 14.

2.3 Other hazards
no data available

3. Composition/information on ingredients

3.1 Mixtures

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

Component(s) / Hazardous component(s):

<table>
<thead>
<tr>
<th>Name</th>
<th>EU number</th>
<th>CAS number</th>
<th>Hazard symbol / Hazard classes and cat.</th>
<th>Risk phrase / Hazard statements</th>
<th>Conc. (%(m/m))</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base oil – unspecified, hydrotreated heavy paraffinic, C20-C50*</td>
<td>265-157-1</td>
<td>64742-54-7</td>
<td>67/548/EEC: - (Note L) 1272/2008/EC: - (Note L)</td>
<td>-</td>
<td>max. 80</td>
</tr>
<tr>
<td>Base oil – unspecified, hydrotreated neutral oil-based, C20-C50</td>
<td>276-738-4</td>
<td>72623-87-1</td>
<td>67/548/EEC: - (Note L) 1272/2008/EC: Asp.Tox.1 (Note L)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Mineral oil raffinate*</td>
<td>confidential</td>
<td></td>
<td>67/548/EEC: - (Note L) 1272/2008/EC: - (Note L)</td>
<td>H304</td>
<td>max. 18</td>
</tr>
<tr>
<td>Zinc dialkyl dithiophosphate</td>
<td>283-392-8</td>
<td>84605-29-8</td>
<td>67/548/EEC: Xi, N 1272/2008/EC: Skin Irrit. 2 Eye Dam. 1 Aquatic Chronic 2</td>
<td>R 38, R 41, R 51/53 H315 H318 H411</td>
<td>max. 1.7</td>
</tr>
</tbody>
</table>
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.

4.2 Most important symptoms and effects, both acute and delayed:
Causes serious eye irritation.

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

5. Fire-fighting measures

Fire hazards:
See also Section 9 - flash point.

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
Hazardous combustion products:
On burning, carbon dioxide, carbon monoxide, sulphur oxides, nitrogen 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.
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.

6.3 Methods and material for containment and cleaning up
   On soil: All kind of ignition sources should be removed. Recover free liquid by pumping. Contain the rest or small quantities with sand, earth or other suitable absorbents. Dispose of according to local regulations.

6.4 Reference to other sections
   Personal precautions: see section 8.
   Waste treatment methods: see section 13.

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)
   Multigrade diesel engine oil.
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: 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.
- Skin protection: Protective clothing (oil resistant).
- Other special: no data

Environmental exposure controls:
Do not discharge into drains/surface waters/groundwater.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:
- Physical state: liquid
- Colour: brown, clear
- Odour: characteristic

Change in physical state:
- Pour point (ISO 3016): typ. -36°C
- Boiling point: not available

Others:
- Flash point (COC) (EN ISO 2592): typ. 225°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): 0.865 – 0.885 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
Evaporation rate: not available
Heating value: inf. 38 000 kJ/kg
Kinematic viscosity at 40°C (EN ISO 3104): typ. 119 mm²/s
Kinematic viscosity at 100°C (EN ISO 3104): typ. 15.4 mm²/s
pH: not applicable

9.2 Other information
no data available

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.

11. Toxicological information
11.1 Information on toxicological effects
Acute toxicity:
Oral: LD₅₀ (rat) > 2000 mg/kg (based on components)
Dermal: LD₅₀ (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.

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 known
STOT-repeated exposure: not known
Aspiration hazard: not known

12. Ecological information

12.1 Toxicity
Aquatic organisms: No data for the product.
Soil organisms:
Plants:

12.2 Persistence and degradability
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
Not required.

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):
13. Disposal considerations

13.1 Waste treatment methods

Product disposal:
- Wastes of the product or used oil should be treated as hazardous waste.
  - EWC cod: 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.
  - EWC cod: 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.

14. Transport information

Land transport:
- Road/ Railway
  - ADR/RID: Not classified.

Waterways:
- Inland waterways/ Sea transport
  - ADN/IMDG: Not classified.

Air transport:
- ICAO / IATA: Not classified.
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.: 453/2010/EC) and to Regulation (EC) 1272/2008.

15.2 Chemical safety assessment.
not available

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)
Eye Irrit. 2 H319 (calculated)
The full text of each relevant R-, H- phrase and Hazard classes and cat. in Section 3.:

| R 36/38  | Irritating to eyes and skin. |
| R 38     | Irritating to skin.          |
| R 41     | Risk of serious damage to eyes. |
| R 43     | May cause sensitisation by skin contact. |
| R 50/53  | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R 51/53  | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R 52/53  | Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| R 53     | May cause long-term adverse effects in the aquatic environment. |
| R 62     | Possible risk of impaired fertility. |
| 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.    |
| H319     | Causes serious eye irritation. |
| H361f    | Suspected of damaging fertility. |
| H400     | Very toxic to aquatic life.   |
| H410     |                               |
| H411     | Toxic to aquatic life with long lasting effects. |
| H412     | Harmful 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, 1A, 1B |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation Category 2 |
| Repr. 2 | Reproductive toxicity Category 2 |
| Aquatic Acute 1 | Hazardous to the aquatic environment, Acute Category 1 |
| Aquatic Chronic 1 |                                       |
| Aquatic Chronic 2 |                                       |
| Aquatic Chronic 3 |                                       |
| Aquatic Chronic 4 |                                       |
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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 Oxigen Demand
Bw  Body Weight
C&L  Classification and Labeling
CAS  Chemical Abstracts Service
CLP  Classification, Labelling and Packaging
CMR  Carcigonic, Mutagenic or toxic to Reproduction
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<table>
<thead>
<tr>
<th>Acronym</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>COD</td>
<td>Chemical Oxygen Demand</td>
</tr>
<tr>
<td>CSA</td>
<td>Chemical Safety Assessment</td>
</tr>
<tr>
<td>CSR</td>
<td>Chemical Safety Report</td>
</tr>
<tr>
<td>DMEL</td>
<td>Derived Minimal Effect Level</td>
</tr>
<tr>
<td>DNEL</td>
<td>Derived No Effect Level</td>
</tr>
<tr>
<td>ECHA</td>
<td>European Chemicals Agency</td>
</tr>
<tr>
<td>Ecx</td>
<td>Effective Concentration x%</td>
</tr>
<tr>
<td>Edx</td>
<td>Effective Dose x%</td>
</tr>
<tr>
<td>ELINCS</td>
<td>European List of Notified Chemical Substances</td>
</tr>
<tr>
<td>ErC50</td>
<td>EC50 in terms of reduction of growth rate</td>
</tr>
<tr>
<td>ES</td>
<td>Exposure Scenario</td>
</tr>
<tr>
<td>ESIS</td>
<td>European Chemical Substances Information System</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>IATA</td>
<td>International Air Transport Association</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods</td>
</tr>
<tr>
<td>LCx</td>
<td>Lethal Concentration x%</td>
</tr>
<tr>
<td>LDx</td>
<td>Lethal Dose x%</td>
</tr>
<tr>
<td>LOAEC</td>
<td>Lowest Observed Adverse Effect Concentration</td>
</tr>
<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>LOEC</td>
<td>Lowest Observed Effect Concentration</td>
</tr>
<tr>
<td>LOEL</td>
<td>Lowest Observed Effect Level</td>
</tr>
<tr>
<td>NOEC</td>
<td>No observed effect concentration</td>
</tr>
<tr>
<td>NOEL</td>
<td>No observed effect level</td>
</tr>
<tr>
<td>NLP</td>
<td>No-Longer Polymer</td>
</tr>
<tr>
<td>NOAEL</td>
<td>No Observed Adverse Effect Level</td>
</tr>
<tr>
<td>OECD</td>
<td>Organisation for Economic Cooperation and Development</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent Bioaccumulative and Toxic</td>
</tr>
<tr>
<td>PNEC</td>
<td>Predicted No-Effect Concentration</td>
</tr>
<tr>
<td>REACH</td>
<td>Registration, Evaluation, Authorisation and Restriction of Chemicals</td>
</tr>
<tr>
<td>RID</td>
<td>Regulations concerning the International Carriage of Dangerous Goods by Rail</td>
</tr>
<tr>
<td>SVHC</td>
<td>Substance of Very High Concern</td>
</tr>
<tr>
<td>UVCB</td>
<td>Substance of unknown or variable composition, complex reaction products or biological materials</td>
</tr>
<tr>
<td>VOC</td>
<td>Volatile organic compounds</td>
</tr>
<tr>
<td>vPvB</td>
<td>Very Persistent and very Bio-accumulative</td>
</tr>
</tbody>
</table>

**Revision Indicators:**

<table>
<thead>
<tr>
<th>Section</th>
<th>Subject of change</th>
<th>Date</th>
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