



## SAFETY DATA SHEET

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

Trade name: **MOL EcoClean-S engine degreaser**

Version: 7

Latest revision: 07. 11. 2022

Date of issue: 14. 12. 2009

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

#### 1.1. Product identifier

**MOL EcoClean-S engine degreaser**

UFI: 4J90-P0CK-J00V-86RM

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: engine degreaser

Uses advised against: application other than the above.

#### 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 Kft.

Phone: +36 80 201 296

e-mail: EBKHelpdesk@MOL.hu

#### 1.4. Emergency telephone number

Emergency telephone (on workdays: 07-15<sup>20</sup> h (CET)): +36 34 526 210

Health Toxicological Information Service (ETTSZ 1097 Budapest, Albert Flórián st. 2-6.)

Tel.: +36 80 201 199 (0-24 h, free number, can only be called from Hungary).

+36 1 476 6464 (0-24 h, can be called for a normal fee - also from abroad)

National Health Toxicological Information Service:

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Hazard Class and Category:

Asp. Tox. 1

Hazard statement:

H304 May be fatal if swallowed and enters airways.



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### 2.2. Label elements

Product identification: Trade name: **MOL EcoClean-S engine degreaser**

Hazardous component(s): Hydrocarbons, C10- C13, n-alkanes, isoalkanes, cyclics, <2 % aromatics

GHS Pictogram:



Signal word:

**Danger**

Hazard statement:

**H304** May be fatal if swallowed and enters airways.

Supplemental hazard information

**EUH066** Repeated exposure may cause skin dryness or cracking.

Precautionary statements – General:

**P101** If medical advice is needed, have product container or label at hand.

Precautionary statements – Prevention:

**P210** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**P273** Avoid release to the environment.

Precautionary statements – Response:

**P301 + P310** IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

+ **P331** Do NOT induce vomiting.

Precautionary Statements – Storage:

**P403 + P235** Store in a well-ventilated place. Keep cool.

**P405** Store locked up.

Precautionary statements – Disposal:

**P501** Dispose of contents/container in accordance with national regulation.

Other liabilities for labelling:

Tactile Warning and child-resistant fastening: In case of distribution for population.

Transport classification: see section 14.

By 648/2004/EC regulation:

Components: 30% and more: aliphatic hydrocarbons, less than 5%: non-ionic surfactants.

Contain: colorant.

The website, where the list of ingredients is available: [www.kenoanyag.mol.hu](http://www.kenoanyag.mol.hu)



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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, at a concentration of 0.1% or more.

The mixture does not contain any substance with endocrine disrupting properties, at a concentration of 0.1% or more.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Chemical description:            Hydrocarbons with additives and colorific.

Component(s) / Hazardous component(s):

| Name   | EC number | CAS number | Hazard classes and cat.                               | Hazard statements          | Conc. % (m/m) |
|--|-----------|------------|---|----------------------------|---------------|
| Hydrocarbons, C10- C13, n-alkanes, n-alkanes, isoalkanes, cyclics, <2 % aromatics<br>REACH Registr. Nr.:<br>01-2119457273-39 | 918-481-9 | -          | Flam. Liq. 3<br>Asp. Tox. 1<br>(Note J)               | H226<br>H304<br>EUH066     | 90 – 97       |
| Fatty alcohol polyglycoether, ethoxylated<br>REACH Registr. Nr.:<br>01-2119489407-26   | 500-236-9 | 68920-66-1 | Skin Irrit. 2<br>Aquatic Acute 1<br>Aquatic Chronic 3 | H315<br>H400 (M=1)<br>H412 | <10           |

Note J:

The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes.

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. Get medical help on site. Give supplemental oxygen, if breathing is difficulty. If breathing has stopped, apply artificial breathing or breathing apparatus.



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**Skin contact:** Wash skin with large amounts of water, use soap. Remove contaminated clothing. In case of persistent irritation, get medical attention.

Accidental high-velocity injection under the skin of materials of this type may result in serious injury. Seek medical attention immediately.

**Eye contact:** Flush eyes with plenty of water for 10-15 minutes. In case of persistent irritation, get medical attention.

**Ingestion:** **Do not** induce vomiting. Get medical attention immediately.

Protection of first-aid person: No individual specifications.

#### 4.2. Most important symptoms and effects, both acute and delayed

**Ingestion:** impaired consciousness, disorientation

**Inhalation:** headache, dizziness, vomiting, altered mental status

**Skin:** redness, irritation.

**Eye:** slight irritation.

#### 4.3. Indication of any immediate medical attention and special treatment needed

In case of ingestion.

The initial wound at the injection site may not appear to be serious at first; but, if left untreated, could result in disfigurement or amputation of the affected part.

## SECTION 5: Fire-fighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media:

Foam, carbon dioxide, dry chemical powder, sand, earth, water spray.

Unsuitable extinguishing media:

Full water jet.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

On burning, carbon monoxide, carbon dioxide, various hydrocarbons and soot can be formed.

#### 5.3. Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations (self-contained breathing apparatus).

Further information:

Vapours may accumulate in low or confined areas, travel considerable distance to source of ignition and flash back.

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.



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### 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.  
Keep unnecessary personnel away considering the direction of wind.
- 6.2. Environmental precautions:  
Prevent spills from entering into natural water, soil and drains by containing the liquid.  
Notify relevant authority.
- 6.3. Methods and material for containment and cleaning up  
On soil: All kind of ignition sources should be removed. Ensure adequate ventilation.  
Stop leak if you can do so without risk. Recover free liquid by pumping.  
Contain spilled liquid with sand, earth or other suitable absorbents. Dispose of according to local regulations.  
On water: 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 chemicals and flammable liquids.  
Ensure adequate ventilation.  
Avoid to accumulate electrostatic charge. Use non-sparking tools.  
Avoid splashing product.  
Avoid contact with skin and eyes, inhalation of vapours, aerosol, mist.  
Wash hands before breaks and at end of work.  
Take off contaminated clothing and wash it before reuse.  
When using do not eat or drink and do not smoke.  
Handling temperature: not known.
- 7.2. Conditions for safe storage, including any incompatibilities  
Keep away from radiant heat, open flame and strong oxidizing agents.  
Protect from direct sunshine.  
Prevent electrostatic discharges.



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Empty containers retain product residue (solid, liquid, and/or vapour) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition.

Storable in containers made of carbon steel, stainless steel and most metals.

Storage temperature: 5 - 30°C.

### 7.3. Specific end use(s)

Engine degreaser.

## SECTION 8: Exposure controls / personal protection

8.1. Control parameters: -

8.2. Exposure controls

Engineering control measures:

Adequate ventilation.

Personal protection:

(a) Eye/face protection Protective goggles, if splashes may occur (EN 166).

(b) Skin protection

(i) Hand protection Protecting gloves: should be solvent-resistant (e.g. nitrile rubber, penetration time >480 min). General requirements of gloves are described in standard EN 374.

Note: Manufacturer's directions for use and the conditions of application should be observed.

(ii) Other Protective clothing.

(c) Respiratory protection Breathing apparatus not required in case of adequate ventilation.

In case of inadequate ventilation use suitable mask with filter typ A (EN 141).

(d) Thermal hazards 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

a) Physical state:

liquid

b) Colour:

light green, clear

c) Odour:

light odor of gasoline



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- |  |  |
|--|--|
| d) Melting point/freezing point (Pour point) (ISO 3016):       | not available  |
| e) Boiling point or initial boiling point and boiling range:   | 180 - 220°C  |
| f) Flammability:   | combustible  |
| g) Lower and upper explosion limit:                            | Product is not explosive. However, formation of explosive air/steam mixtures is possible.<br>0.6 vol% / 6.5 vol% |
| h) Flash point (PM) (EN ISO 2719):                             | typ. >61°C   |
| i) Auto-ignition temperature:                                  | not self-igniting  |
| j) Decomposition temperature:                                  | not available  |
| k) pH:   | not applicable   |
| l) Kinematic viscosity at (DIN EN ISO 3104)                    |  |
| 40°C:  | not available  |
| 100°C:   | not available  |
| m) Solubility  |  |
| Solubility in water at 20°C:                                   | form emulsion like milk  |
| Solubility in other solvents:                                  | not available  |
| n) Partition coefficient n-octanol/water (log value):          | not available  |
| o) Vapour pressure at 20°C:                                    | negligible   |
| p) Density and/or relative density at 15°C (DIN EN ISO 12185): | 0.780 – 0.810 g/cm <sup>3</sup>  |
| q) Relative vapour density:                                    | not available  |
| r) Particle characteristics:                                   | not available  |
| 9.2. Other information   |  |
| Oxidizing properties:  | not oxidize  |
| Ignition point (COC):  | typ. 250°C   |

### 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. |



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### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity: Based on available data, the classification criteria are not met.

*Components:*

*Hydrocarbons, C10- C13, n-alkanes, n-alkanes, isoalkanes, cyclics, <2 % aromatics (EC: 918-481-9)*

Oral: LD<sub>50</sub> (rat) 5000 mg/kg

Dermal: LD<sub>50</sub> (rabbit) 3160 mg/kg

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

STOT-single exposure: Based on available data, the classification criteria are not met.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: May be fatal if swallowed and enters airways.

#### 11.2. Information on other hazards

The mixture does not contain any substance with endocrine disrupting properties, at a concentration of 0.1% or more.

### SECTION 12: Ecological information

#### 12.1. Toxicity No data for the product.

*Components:*

*Hydrocarbons, C10- C13, n-alkanes, n-alkanes, isoalkanes, cyclics, <2 % aromatics (EC: 918-481-9)*

Aquatic organisms: 10 - 100 mg/L

#### 12.2. Persistence and degradability

Biodegradability:

*Fatty alcohol polyglycoether, ethoxylated (CAS: 68920-66-1): 73 % (OECD 301 B)*





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|  |  |
|--|--|
| 12.3. Bioaccumulative potential<br><i>Hydrocarbons, C10- C13, n-alkanes, n-alkanes, isoalkanes, cyclics, &lt; 2 % aromatics (EC: 918-481-9):</i> | No data for the product.<br><br>Log Pow 2.1 – 6 (Literature)<br>Log Kow 5.5 – 6 (calculated)   |
| 12.4. Mobility in soil<br>Mobility in water:   | Evaporates easily from the water.<br>Evaporates easily from the soil. If leaked on soil the material reaches ground water, soluble components may easily spread. |
| 12.5. Results of PBT and vPvB assessment   | Does not contain PBT and vPvB substances, at a concentration of 0.1% or more.  |
| 12.6. Endocrine disrupting properties  | The mixture does not contain any substance with endocrine disrupting properties, at a concentration of 0.1% or more.   |
| 12.7. Other adverse effects<br>Environmental effects:<br>Water hazard class (German):  | Large spills may be hazardous to the environment.<br>WGK 1 (Classification by AwSV)  |

### 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: 14 06 03\*

Other solvents and solvent mixtures.

Waste Identification Code: 20 01 29\*

Detergents containing dangerous substances.

Disposal must be in compliance with national and local regulations.

Recommended waste treatment method: incineration



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### 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:

|       |   |                     |
|-------|---|---------------------|
| 14.1. | UN number or ID number                                  | 3295                |
| 14.2. | UN proper shipping name                                 | LIQUID HYDROCARBONS |
| 14.3. | Transport hazard class(es)                              | 3                   |
|       | Class code:   | F1                  |
| 14.4. | Packing group   | III                 |
|       | Hazard label:   | 3                   |
| 14.5. | Environmental hazards                                   | -                   |
| 14.6. | Special precautions for user                            |                     |
|       | Kemmler Nr.:  | 30                  |
| 14.7. | Maritime transport in bulk according to IMO instruments | not applicable      |

### Waterways:

Inland waterways/ Sea transport

ADN/IMDG:

|       |   |                     |
|-------|---|---------------------|
| 14.1. | UN number or ID number                                  | 3295                |
| 14.2. | UN proper shipping name                                 | LIQUID HYDROCARBONS |
| 14.3. | Transport hazard class(es)                              | 3                   |
| 14.4. | Packing group   | III                 |
| 14.5. | Environmental hazards                                   | not classified      |
|       | Sea contaminating                                       | not                 |
| 14.6. | Special precautions for user                            |                     |
|       | EMS number  | F-E, S-D            |
| 14.7. | Maritime transport in bulk according to IMO instruments | not applicable      |



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Air transport:

ICAO / IATA:

|   |                     |
|---|---------------------|
| 14.1. UN number or ID number                                  | 3295                |
| 14.2. UN proper shipping name                                 | LIQUID HYDROCARBONS |
| 14.3. Transport hazard class(es)                              | 3                   |
| 14.4. Packing group   | III                 |
| 14.5. Environmental hazards                                   | not classified.     |
| 14.6. Special precautions for user                            | -                   |
| 14.7. Maritime transport in bulk according to IMO instruments | not applicable      |

### SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
This safety data sheet has been prepared according to Regulation (EC) No 1907/2006 (mod.: 2020/878/EU) and to Regulation (EC) 1272/2008.  
Seveso category: not classified.
- 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.

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

Asp. Tox. 1      H304      calculation method

*The full text of each relevant Hazard classes and cat. and H- phrase in Section 3.:*

H226      Flammable liquid and vapour.

H304      May be fatal if swallowed and enters airways.



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|                   |  |
|-------------------|--|
| H315              | Causes skin irritation.                                  |
| H400              | Very toxic to aquatic life.                              |
| H412              | Harmful to aquatic life with long lasting effects.       |
| Flam. Liq. 3      | Flammable liquid Category 3                              |
| Asp. Tox. 1       | Aspiration hazard Category 1                             |
| Skin Irrit. 2     | Skin corrosion/irritation Category 2                     |
| Aquatic Acute 1   | Hazardous to the aquatic environment, Acute Category 1   |
| Aquatic Chronic 3 | Hazardous to the aquatic environment, Chronic Category 3 |

### 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 Labelling  |
| CAS       | Chemical Abstracts Service  |
| CLP       | Classification, Labelling and Packaging   |
| CMR       | Carcinogenic, Mutagenic or toxic to Reproduction  |
| COD       | Chemical Oxygen Demand  |
| CSA       | Chemical Safety Assessment  |
| CSR       | Chemical Safety Report  |
| DMEL      | Derived Minimal Effect Level  |
| DNEL      | Derived No Effect Level   |
| ECHA      | European Chemicals Agency   |
| Ex        | 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   |
| 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%)   |
| LOAEC     | Lowest Observed Adverse Effect Concentration  |
| LOAEL     | Lowest Observed Adverse Effect Level  |
| LOEC      | Lowest Observed Effect Concentration  |



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|       |   |
|-------|---|
| 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 |
|---------------------------|---|--------------|---------|
| 3<br>9                    | Composition / information on ingredients<br>Physical and chemical properties  | 11. 02. 2010 | 2       |
| 1                         | Product name  | 27. 04. 2010 | 3       |
| 2<br>3<br>9<br>12<br>1-16 | Hazards identification.<br>Composition/information on ingredients.<br>Physical and chemical properties<br>Ecological information<br>Regulatory information, other corrections.<br>Revision modification according to 1272/2008/EC and 453/2010/EC | 11. 09. 2012 | 4       |
| 1<br>1-16                 | Details of the supplier of the safety data sheet, Responsible for SDS<br>Other corrections, revision modification according to 2015/830 /EC   | 05. 01. 2016 | 5       |
| 2.2<br>3                  | Label elements<br>Composition/information on ingredients.   | 22. 03. 2019 | 6       |
| 1-16<br>14                | Revision modification according to 2020/878/EU<br>Transport information   | 07. 11. 2022 | 7       |