

SAFETY DATA SHEET

MOL-LUB Ltd.

according to regulation (EC) No 1907/2006 (REACH) and 1272/2008/EC

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

Version: 4 Latest revision: 31. 01. 2013 Date of issue: 19. 03. 2010 Page: 1/(10)

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

1.1 Product identifier:

MOL EcoClean-W engine degreaser

1.2 Relevant identified uses of the mixture and uses advised against

Relevant identified uses: engine degreaser

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 (on workdays: 07-15²⁰ h (CET)): +36 34 526 210

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 (EC) No 1272/2008

Hazard Class and Category: Hazard statement:

Eye Dam. 1

H318

Causes serious eye damage.

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2.1.2 Classification of the mixture according to regulation 1999/45/EC

Human health hazards: Xi (irritant)
 R 36 Irritating to eyes

Safety hazards: Danger symbol not required.

Environmental hazards: Danger symbol not required.
 Note: Large spills may be hazardous to the environment.

2.2 Label elements (EC) No 1272/2008

Product identifier:

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

Hazardous component(s): Alcohol, ethoxylated (C9-11) (CAS number: 68439-46-3)

GHS Pictogram:



Signal word: **Danger**

Hazard statement:

H318 Causes serious eye damage.

Precautionary statements – Prevention:

P102 Keep out of reach of children.

P280 Eye protection/face protection.

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.

P310 Immediately call a POISON CENTER or doctor/physician.

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.

By 648/2004/EC regulation:

Components: < 5 % cationic and non-ionic surfactants

Contain: colorant

The website, where the list of ingredients is available: www.kenoanyag.mol.hu

2.3 Other hazards

No data available.

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3. Composition/information on ingredients

3.1 Mixtures

Chemical description: Surfactants, additives and calorific in water.

Hazardous component(s):

Name	EINECS number	CAS number	Hazard symbol / Hazard classes and cat.	Risk phrase / Hazard statements	Conc. %(m/m)
Alcohol, ethoxylated (C9-11) 		68439-46-3	67/548/EEC: Xi 1272/2008/EC: Eye Dam. 1	R 38, R 41 H318	max. 4.5
Coco alkyl methylammonium chloride, ethoxylated 		863679-20-3	67/548/EEC: Xn 1272/2008/EC: Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1	R 22, R 38, R 41 H302 H315 H318	max. 2.2
Aliphatic alcohols C8-C14), mainly linear, ethoxylated, alkoxyated 	polymer		67/548/EEC: Xn 1272/2008/EC: Skin Irrit. 2 Eye Dam. 1	R 22 H315 H318	max. 1.0

The full text of each relevant Hazard classes and cat., R- and H- phrase see in Section 16.

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.

Skin contact: Wash skin with large amounts of water, use soap. Remove contaminated clothing. 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.

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

4.2 Most important symptoms and effects, both acute and delayed

Not required.

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:

Co-ordinate fire-fighting measures to the fire surroundings (foam, carbon dioxide, dry chemical powder).

Unsuitable extinguishing media:

Co-ordinate fire-fighting measures to the fire surroundings.

5.2 Special hazards arising from the mixture

Hazardous combustion products:

On burning carbon monoxide can be formed.

5.3 Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations.

Recommend wearing self-contained breathing apparatus.

Further information:

Prevent run-off from fire control or dilution from entering streams, sewers or drink water supply.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: see Section 8.

6.2 Environmental precautions:

Prevent spills from entering into natural water, soil and drains by containing the liquid.

Notify relevant authority.

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6.3 Methods and material for containment and cleaning up

- On soil: 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.

7. Handling and storage

7.1 Precautions for safe handling

- Keep general measures applied for normal operations with chemicals.
Avoid contact with material, eye contact.
Avoid contact with skin and eyes, inhalation of vapours.
Ensure washing facilities after working hours and before breaks. Take off contaminated clothing, wash with warm water and soap.
Handling temperature: not known

7.2 Conditions for safe storage, including any incompatibilities

- Storage facilities must comply with regulations for normal operations with chemicals.
Store in closed original, closed containers.
Protect from frost.
Storage temperature: max. 35°C

7.3 Specific end use(s)

- Engine degreaser.

8. Exposure controls / personal protection

- Engineering control measures:
Not required.

8.1 Control parameters:

-

8.2 Exposure controls

Personal protection:

- Respiratory protection: Not required.
- Hand protection: Chemical resistant gloves (EN 374)
 Note: Manufacturer's directions for use and the conditions of application should be observed.
- Eye protection: Protective goggles.
- Skin protection: Protective clothing.
- Other special: no data

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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:	yellow, clear
Odour:	characteristic

Change in physical state:

Melting point:	not available
Boiling point:	not available

Others:

Flash point (PM) (EN ISO 2592):	not applicable
Ignition point (EN ISO 2592):	not applicable
Autoignition temperature:	not applicable
Explosive properties:	not explosion dangerous
Oxidizing properties:	not data available
Vapour pressure at 20°C:	not data available
Density at 15°C (EN ISO 12185):	1.010 – 1.030 g/cm ³
Solubility in water:	miscible in all proportion
Solubility in other solvents:	not data available
n-Octanol/water partition coefficient:	not available
Vapour density (air=1):	not data available
Evaporation rate:	not data available
Kinematic viscosity (EN ISO 3104) at 40°C:	not available
pH:	typ. 8

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: | Protect from frost. |
| 10.5 Incompatible materials: | Not known. |
| 10.6 Hazardous decomposition products: | No dangerous decomposition products are formed under normal conditions. Hazardous combustion products: See Section 5. |

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11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity: No data for the product.

Components:

Alcohol, ethoxylated:

Oral: LD₅₀ (rat) >2000 - 5000 mg/kg

Dermal: LD₅₀ >2000 - 5000 mg/kg

Inhalation: LC₅₀ >20 mg/l

Coco alkyl methylammonium chloride, ethoxylated

Oral: LD₅₀ (rat) >300 - 2000 mg/kg

Acute toxicity: irritation

Skin: not irritant (based on components)

Note: Prolonged and/or repeated contact may cause skin irritation, depending on individual sensitivity.

Eye: irritant (based on components), causes serious eye damage.

Respiratory or skin sensitisation: not sensitising (based on components)

Chronic toxicity: not known

Repeated dose toxicity: *Alcohol, ethoxylated:* NOEL: 250 mg/kg

Other information, specific effects:

Carcinogen effect: not known, resp. not carcinogen (based on components)

Mutagen effect: not known, resp. not mutagen (based on components)

Reproduction-damaging effect: not known, resp. no reproduction-damaging effect (based on components)

STOT-repeated exposure: *Alcohol, ethoxylated:* NOEL: 250 mg/kg

12. Ecological information

12.1 Toxicity No data for the product.

Components:

Alcohol, ethoxylated

Aquatic organisms: Fish LC₅₀: >1-10 mg/l/96 h

Daphnia EC₅₀: >1-10 mg/l/48 h

Algae EC₅₀: >1-10 mg/l/72 h

Soil organisms: No data.

Plants: No data.

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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 (EC) 1272/2008 (CLP)

Eye Dam. 1 H318 (calculation method)

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

- R 22 Harmful if swallowed.
- R 38 Irritating to skin.
- R 41 Risk of serious damage to eyes.

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.

- Acute Tox. 4 Acute toxicity Category 4
- Skin Irrit. 2 Skin corrosion/irritation Category 2
- Eye Dam. 1 Serious eye damage/eye irritation Category 1

Revision Indicators:

Section	Subject of change	Date	Version
1	Product name	27.04.2010	2
2	Hazards identification	05.06.2012	3
3	Composition/information on ingredients		
1-16	Regulatory information, other corrections Revision modification according to 1272/2008/EC		
9	Physical and chemical properties Other corrections	31.01.2013	4