

SAFETY DATA SHEET



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

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

Version: 6 Latest revision: 05. 01. 2016 Date of issue: 19. 03. 2010 Page: 1/(13)

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

1.1 Product identifier:
MOL EcoClean-W engine degreaser

1.2 Relevant identified uses of the mixture or substance 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 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 (on workdays: 07-15²⁰ h (CET)): +36 34 526 210
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:

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Section 2 Hazards identification

2.1 Classification of the mixture or substance

Hazard Class and Category: Hazard statement:
Eye Dam. 1 H318 Causes serious eye damage.

2.2 Label elements

Product identifier:

Trade name: **MOL EcoClean-W engine degreaser**
Hazardous component(s): Alcohol, ethoxylated (CAS number: 68439-46-3)
 Coco alkyl methylammonium chloride, ethoxylated
 (CAS number: 863679-20-3)
 Aliphatic alcohols mainly linear, ethoxylated, alkoxyated
 (CAS number: 166736-08-9)

GHS Pictogram:



Signal word: **Danger**

Hazard statement:
H318 Causes serious eye damage.

Precautionary statements – General:
P102 Keep out of reach of children.

Precautionary statements – Prevention:
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 – Storage: -

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

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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

The product does not contain persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) components (Annex XIII. Regulation 1907/2006 / EC).

Section 3 Composition/information on ingredients

3.2 Mixtures

Chemical description: Surfactants, additives and calorific in water.

Component(s)/Hazardous component(s):

Name	EU number	CAS number	Hazard classes and cat.	Hazard statements	Conc. % (m/m)
Alcohol, ethoxylated (C9-11)		68439-46-3	Eye Dam. 1	H318	max. 3.6
Coco alkyl methylammonium chloride, ethoxylated		863679-20-3	Acute Tox. 4 Skin Irrit. 2 Eye Dam. 1	H302 H315 H318	max. 2.25
Aliphatic alcohols C8-C14), mainly linear, ethoxylated, alkoxyated	polymer	166736-08-9	Skin Irrit. 2 Eye Dam. 1	H315 H318	max. 1.0

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.

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Inhalation: Remove the affected person to fresh air.
Skin contact: Wash skin with large amounts of water, use soap. Remove contaminated clothing.
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.
Protection of first-aid person: No individual specifications.

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.

Section 5 Fire-fighting measures

Fire hazards:
Not combustible.

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 or substance

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.

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Section 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.
- 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.

Section 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: 5 - 35°C
- 7.3 Specific end use(s)
Engine degreaser.

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Section 8 Exposure controls / personal protection

Engineering control measures:

Adequate ventilation.

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

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: yellow, slight haze may allowed

Odour: characteristic

Change in physical state:

Melting point (ISO 3016): not available

Boiling point (ASTM D 1177): 0 °C

Others:

Flash point (PM) (EN ISO 2719): not applicable

Ignition point : not applicable

Autoignition temperature: not applicable

Explosive properties: not explosion dangerous

Oxidizing properties: not data available

Vapour pressure at 20°C: not data available

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Evaporation rate:	not data available
Density at 15°C:	1.010 – 1.030 g/cm ³
Solubility in water at 20°C:	miscible in all proportion
Solubility in other solvents:	not data available
n-Octanol/water partition coefficient:	not available
Dynamic viscosity (EN ISO 3104)	not available
pH at 20°C:	typ. 8

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:	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.

Section 11 Toxicological information

11.1 Information on toxicological effects
Acute toxicity: No data for the product.

Components:

Alcohol, ethoxylated:

Oral:	LD ₅₀ (rat)	>2000 - 5000	mg/kg
Dermal:	LD ₅₀	>2000 - 5000	mg/kg
Inhalation:	LC ₅₀	>20	mg/l

Coco alkyl methylammonium chloride, ethoxylated

Oral:	LD ₅₀ (rat)	>300 - 2000	mg/kg
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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)

Other information, specific effects:

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: *Alcohol, ethoxylated*: NOEL: 250 mg/kg

Aspiration hazard: not classified

Section 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.

Coco alkyl methylammonium chloride, ethoxylated

Aquatic organisms: Fish LC₅₀: >10-100 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.

12.2 Persistence and degradability

Biodegradability: *Alcohol, ethoxylated* (OECD 301D): > 60 % BOD, 28 day
Coco alkyl methylammonium chloride, ethoxylated: (OECD 301D): > 60 % BOD, 28 day

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12.3	Bioaccumulative potential	No data for the product.
12.4	Mobility	
	Mobility in water:	Miscible in all proportion.
	Mobility in soil:	No data for the product.
12.5	Results of PBT and vPvB assessment	Does not contain PBT and vPvB substances.
12.6	Other adverse effects	
	Environmental effects:	It may be harmful to aquatic organisms.
	Water hazard class (German):	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: 20 01 29*

Detergents containing dangerous substances.

Disposal must be in compliance with national and local regulations.

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.

Recommended waste treatment method: incineration

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.

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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.

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.

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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. and H- phrase in Section 3.:

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

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
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level

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ECHA	European Chemicals Agency
Ec _x	Effective Concentration x%
ErC ₅₀	EC ₅₀ 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
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	31.01.2013	4
1-16	Other corrections		

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Revision Indicators:

Section	Subject of change	Date	Version
2	Hazards identification	27.03.2015	5
3	Composition/information on ingredients		
5	Fire hazards		
9	Physical and chemical properties		
14	Transport information		
1-16	Other corrections		
1-16	Other corrections, revision modification according to 2015/830 /EC	05.01.2016	6