

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

MOL-LUB Ltd.

Trade name: **EVOX Extra concentrate coolant concentrate**

Version: 5 Latest revision: 17. 06. 2022 Date of issue: 22. 05. 2013 Page: 1/(14)

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

1.1 Product identifier:

EVOX Extra concentrate coolant concentrate

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

Relevant identified uses: antifreeze coolant concentrate 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 Ltd.

Phone: +36 80 201 296

e-mail: EBKHelpdesk@MOL.hu

1.4 Emergency telephone number

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

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: Hazard statement:

Acute Tox. 4 H302 Harmful if swallowed.

STOT RE 2 H373 May cause damage to kidneys through prolonged or

repeated exposure if swallowed.



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2.2 Label elements

Product identification: Trade name: **EVOX Extra concentrate coolant concentrate**

Hazardous components: Ethanediol

GHS Pictogram:

!

Signal word: Warning

Hazard statement:

H302 Harmful if swallowed

H373 May cause damage to kidneys through prolonged or repeated exposure if

swallowed.

Supplemental hazard information: -

Precautionary statements – General:

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

P102 Keep out of reach of children.

Precautionary statements - Prevention

P260 Do not breathe mist/vapours/spray.P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

Precautionary statements - Response

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

Precautionary statements – Storage: -

Precautionary statements - Disposal

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

Other liabilities for labelling:

Tactile warning of danger: distributed for population.

Transport classification: see section 14.

2.3 Other hazards

The product does not contain any PBT or vPvB substance according to annex XIII of regulation (EC) 1907/2006.



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SECTION 3 Composition/information on ingredients

3.2 Mixtures

Chemical description: Ethylene glycol with additives, colorific.

Component(s) / Hazardous component(s):

Name	EC	CAS	Hazard classes and	Hazard	Conc.
Name	number	number	cat.	statements	%(m/m)
Ethanediol	203-473-3	107-21-1	Acute Tox. 4	H302	80-98
REACH Registr.Nr.:			STOT RE 2	H373	
01-2119456816-28-0024					
Methyl-1H-benzotriazole	249-596-6	29385-43-1	Acute Tox. 4	H302	0.1-<0.25
REACH Registr. Nr.:			Repr. 2	H361d	
01-2119979081-35			Aquatic Chronic 2	H411	
Potassium - (2-	-	-	Acute Tox. 4	H302	0.1 - < 0.25
benzothiazylthio)acetate			Eye Dam. 1	H318	
REACH Registr. Nr.:			Repr. 2	H361	
no data			Aquatic Chronic 3	H412	

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 exposed person to fresh air if adverse effects are observed. If breathing

has stopped, apply artificial respiration. If breathing is labored, administer

oxygen. Get medical attention.

Skin contact: Wash immediately with soap and water. Remove contaminated clothing. If

symptoms persist (redness, swelling, pain, bladder) get medical attention.

Eye contact: Flush immediately with plenty of running water for at least 10-15 minutes,

holding the eyelids open. Remove contact lenses, if present and easy to do.

Continue rinsing. If symptoms persist get medical attention.

Ingestion: Wash out the mouth immediately with water. Do not induce vomiting! If

vomiting occurs spontaneously, lower head below waist to prevent fluid

entering the lungs. Get medical attention.



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Protection of first-aid person: No individual specifications.

4.2 Most important symptoms and effects, both acute and delayed

Harmful if swallowed.

May cause damage to kidneys through prolonged or repeated exposure if swallowed.

Convulsions, dizziness, nausea, vomiting, abdominal pain, oedema.

May cause vomiting when ingested. Aspiration into the lungs may cause chemical pneumontitis. May produce central nervous system disorders.

Absorb on skin.

Vapours may cause narcosis.

Elevated temperatures, mixing or mechanical action may form mists, which may cause slightly burning effects in nose, throat and lungs.

Prolonged and/or repeated contact may cause slight irritation: transient burning effects, mild local redness on skin and/or swelling. Risk of skin resorption.

In case of short-term contact is not expected to other unlikely effects.

May cause slight irritation: transient burning effects, mild redness and/or dim sight.

May cause blindness in the form of an aerosol.

Symptoms of glycol poisoning: breathing disorders, paralysis of central nervous system and in case of severe toxicosis may be fatal.

4.3 Indication of any immediate medical attention and special treatment needed

If swallowed, immediate medical attention is required.

Applying symptomatic treatment. Symptoms may be delayed for several hours and medical observation is recommended.

SECTION 5 Fire-fighting measures

Fire hazards:

Combustible

5.1 Extinguishing media

Suitable extinguishing media:

Powder, alcohol resistant foam, CO₂.

Unsuitable extinguishing media:

Full water jet.



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5.2 Special hazards arising from the substance or mixture

Hazardous combustion products:

On burning hazardous gases and vapours (carbon-dioxide, carbon-monoxide, other organic compounds) 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:

Containers exposed to fire should be removed from the endangered area.

Cool containers and surroundings exposed to fire with water spray.

Vapours can form flammable/explosive vapour-air mixtures.

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: see Section 8.

Keep unnecessary personnel away.

Sufficient ventilation should be provided.

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: Exclude source of ignition. Adequate ventilation required in enclosed areas.

Contain spilled liquid with sand, earth or other suitable absorbents. Recover free liquid by pumping. Dispose of according to local regulations. Clean up

with large amount of water the contaminated area.

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.



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Adequate ventilation required.

Keep material away from and open flame. No smoking.

Avoid contact with skin and eyes, inhalation of vapours.

Ensure washing facilities after working hours and before breaks. Take off contaminated clothing and wash it before reuse. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction.

Handling temperature: no data

7.2 Conditions for safe storage, including any incompatibilities

Storage facilities must comply with regulations for storing of chemicals and flammable liquids.

Store in cool, dry, well-ventilated area, in original, tightly closed containers.

Keep material away from strong acids, strong oxidising agents, nitrates, peroxides, chlorates. Keep out of the reach of children. Keep away from food, drink.

Unsuitable storage materials are: not recommended using plated or galvanized iron or steel containers.

Storage temperature: no data

7.3 Specific end use(s)

Antifreeze coolant concentrate.

SECTION 8 Exposure controls / personal protection

8.1 Control parameters:

EU (2000/39/EC)

Ethanediol: Eight hours: 52 mg/m³

Short-term: 104 mg/m³

8.2 Exposure controls

Engineering control measures:

Adequate ventilation.

Personal protection:

(a) Eye/face protection Where splashing is possible, wear safety glasses (EN 166).

(b) Skin protection

(i) Hand protection Protective gloves (chemical resistant) (EN 374).

Material: neoprene, butyl, nitrile or viton.

Permeation time: > 480 minutes; Thickness: 0.38 mm

Note: Manufacturer's directions for use and the conditions of

application should be observed.



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(ii) Other Use of an impervious apron is recommended.

(c) Respiratory protection Under normal use conditions, respirator is not usually required.

Use approved breathing apparatus if vapours, mists and aerosols are generated or recommended exposure limits are

exceeded.

(d) Thermal hazards Wear appropriate thermal protective clothing, when necessary.

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: liquidb) Colour: dark blue

c) Odour: not available

d) Melting point/freezing point: not available

e) Boiling point or initial boiling point and boiling range:

range: ≥163°C f) Flammability: combustible

g) Lower and upper explosion limit: 3.2 Vol % / 53 Vol % (Ethanediol)

h) Flash point: 120°C

i) Auto-ignition temperature: 398°C

j) Decomposition temperature: not available k) pH (at 20°C): typ. 8.5

1) Kinematic viscosity at:

at 20°C: not available

m) Solubility

Solubility in water:
Solubility in other solvents:
soluble in water
not available
not available

o) Vapour pressure at 20°C: not available
p) Density and/or relative density at 20°C: 1.11 – 1.13 kg/l
q) Relative vapour density: not available

r) Particle characteristics: not available

9.2 Other information

Crystallisation temperature (ASTM D 1177):

(Diluted 1:1 with distilled water) typ. -37°C Oxidizing properties: not oxidize



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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, strong acids, nitrates, peroxides,

chlorates.

10.6 Hazardous decomposition products: No dangerous decomposition products are formed under

normal conditions. Hazardous combustion products: See

Section 5.

Note: Vapours of ethanediol heavier than air and form

explosive mixture with air.

SECTION 11 Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity: No data for the product. Harmful if swallowed.

Oral: ATEmix 1745 mg/kg

Component:

Ethanediol:

Methyl-1H-benzotriazole (CAS: 29385-43-1):

Oral (rat) LD_{50} 720 mg/kg

Dermal (rabbit) LD_{50} >2000 mg/kg (24 h)

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.



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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: May cause damage to kidneys through prolonged or

repeated exposure if swallowed.

Aspiration hazard: Based on available data, the classification criteria

are not met.

11.2 Information on other hazards

No data.

SECTION 12 Ecological information

12.1 Toxicity No data available for the preparation.

Components:

Ethanediol (CAS: 107-21-1):

Fish (Pimephales promelas): LC_{50} 72 860 mg/l (96 h) Daphnia (Daphnia magna): EC_{50} > 100 mg/l (48 h)

Methyl-1H-benzotriazole (CAS: 29385-43-1):

Fish (Danio rerio): LC_{50} 180 mg/l(72 h)Daphnia (Daphnia galeata): EC_{50} (48 h)8.58 mg/lDaphnia (Daphnia galeata): 0.4 mg/l(21 days) EC_{10} Crustacea (Arcartia tonsa): LC_{50} 55 mg/l(48 h)Algae (Pseudokirchneriella subcapitata): 75 mg/l(72 h) ECr_{50}

12.2 Persistence and degradability

Biodegradability:

Ethanediol (CAS: 107-21-1): 90% (10 days, OECD 301A), readily degradable.

12.3 Bioaccumulative potential No data for the product.

Ethanediol (CAS: 107-21-1): Log Kow: -1.36

12.4 Mobility in soil: No data.

Mobility in water: Fully soluble in water.

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12.5 Results of PBT and vPvB

assessment Does not contain PBT and vPvB substances.

12.6 Endocrine disrupting properties No data.

12.7 Other adverse effects

Environmental effects: Do not empty into waterways without disposal.

Water hazard class (German): 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: 16 01 14*

Antifreeze fluids containing dangerous substances.

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.

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.



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SECTION 14 Transport information

Land transport:

Road/Railway ADR/RID: Not classified.

14.1. UN number or ID 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:
Not classified.
Not classified.
Not classified.
Not classified.

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 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.



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Classification for mixtures and used evaluation method according to regulation (EC)

1272/2008 (CLP)

Acute Tox. 4 H302 calculation method STOT RE 2 H373 calculation method

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

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H361 Suspected of damaging fertility or the unborn child

H361d Suspected of damaging the unborn child.

H373 May cause damage to kidneys through prolonged or repeated exposure if

swallowed.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

Acute Tox. 4 Acute toxicity Category 4

Eye Dam. 1 Serious eye damage/eye irritation Category 1

Repr. 2 Reproductive toxicity Category 2 Repr. 2 Reproductive toxicity Category 2

STOT RE 2 Specific target organ toxicity – repeated exposure Category 2

Aquatic Chronic 2 Hazardous to the aquatic environment Category 2

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

Bw Body Weight

C&L Classification and Labelling 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
Ecx 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

ESIS European Chemical Substances Information System 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

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



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Revision Indicators:					
Section	Subject of change	Date	Version		
1	Details of the supplier of the safety data sheet, Responsible for SDS	05.01.2016	2		
2	Other hazards				
5	Fire hazards				
9	Physical and chemical properties				
14	Transport information				
1-16	Other corrections, revision modification according to 2015/830 /EC				
2	Other hazards	27. 08. 2018	3		
3	Composition/information on ingredients				
2.2., 14	Regulatory information				
1-16	Other corrections				
1-16	Full revision. Revision modification according to 2020/878/EU.	18. 03. 2021	4		
1-16	Full revision due to composition change	17. 06. 2022	5		