

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

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

Version: 2 Latest revision: 05. 01. 2016 Date of issue: 22. 05. 2013 Page: 1/(13)

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

1.1 Product identifier:

EVOX Extra concentrate coolant concentrate

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

Relevant identified uses: coolant concentrate

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

E-mail: kenoanyag@mol.hu

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

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:

Acute Tox. 4 H302 Harmful if swallowed.

STOT RE 2 H373 May cause damage to kidneys through prolonged

or repeated exposure if swallowed.

2.2 Label elements

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

Hazardous substance(s): Ethanediol(CAS:107-21-1)

GHS Pictogram:

(!)

Signal word: Warning

Hazard statement:

H302 Harmful if swallowed

H373 May cause damage to kidneys through prolonged or repeated exposure

if swallowed.

Precautionary statements – General:

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

P102 Keep out of the reach of children.

Precautionary statements - Prevention

P260 Do not breathe mist, vapours, spray.

P270 Do no eat, drink or smoke when using this product.

Precautionary statements - Response

P301+312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if

you feel unwell.

P330 Rinse mouth.

P314 Get medical advice/attention if you feel unwell.

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 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.

Section 3 Composition/information on ingredients

3.2 Mixtures

Chemical description: Ethylene glycol with additives, colorific.

Component(s) / Hazardous component(s):

Name	EU	CAS	Hazard classes and	Hazard	Conc.
	number	number	cat.	statements	%(m/m)
Ethanediol	203-473-3	107-21-1	Acute Tox. 4	H302	max. 98
REACH Registration No.: 01-2119456816-28			STOT RE 2	Н373	
Sodium benzoate REACH Registration No.: 01-2119460683-35	208-534-8	532-32-1	Eye Irrit. 2	H319	1 – 5
Substance of cadidate list of SVHC:	215-540-4	12179-04-3	Repr. 1B	H360FD	0.1 – 1
Sodium tetraborate, pentahydrate					
REACH Registration No.:					
01-2119490790-32					
Specific concentration					
limits: C≥6.5 %					

The full text of each relevant Hazard classes and cat., H- phrase 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 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 Wash immediately with soap and water. If symptoms persist (redness,

contact: swelling, pain, bladder) get medical attention.

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

holding the eyelids open. Rest the eyes at least 30 minutes. If symptoms persist (redness, burning pain, dim-red sight, swelling) get medical attention.

Ingestion: Wash out the mouth immediately with water. Give plenty of water. Do not

induce vomiting! If vomiting occur spontaneously, lower head below waist to

prevent fluid entering the lungs. Get medical attention.

Protection of first-aid person: No individual specifications.

4.2 Most important symptoms and effects, both acute and delayed No data.

4.3 Indication of any immediate medical attention and special treatment need If swallowed, immediate medical attention is required: 2 hours, gastrolavage, etc.

Section 5 Fire-fighting measures

Fire hazards:

Combustible.

5.1 Extinguishing media

Suitable extinguishing media:

Powder, alcohol resistant foam, water, CO₂

Unsuitable extinguishing media:

No data.

5.2 Special hazards arising from the mixture or substance

Hazardous combustion products:

On burning hazardous gases and vapours (carbon-dioxide, carbon-monoxide, other organic compounds) can be formed.



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5.3 Advice for fire-fighters

Special protective equipment:

According to the existing fire-fighting regulations. Self-contained breathing apparatus.

Further information:

Cool containers and surroundings exposed to fire with water spray.

Vapours of ethanediol ethylene glycol heavier than air and form explosive mixture with air

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: 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.

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, wash with warm water and soap.

Handling temperature: no data



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7.2 Conditions for safe storage, including any incompatibilities

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

Keep material away from heat, sparks, and open flame. Store in cool, dry, well-ventilated area, in original, tightly closed containers.

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: -13 - +35°C

7.3 Specific end use(s)

Coolant concentrate.

Section 8 Exposure controls / personal protection

Engineering control measures:

Not required.

8.1 Control parameters:

EU (2000/39/EC)

Ethanediol: Eight hours: 52 mg/m³

Short-term: 104 mg/m³

8.2 Exposure controls

Personal protection:

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.

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

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

application should be observed.

Eye protection: Chemical goggles.

Skin protection: Protective clothing, possibly chemical resistant protective

boots.

Other special: No data.

Environmental exposure controls:

Do not discharge into drains/surface waters/groundwater.



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Section 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:

Physical state: liquid Colour: dark-blue Odour: mild

Change in physical state:

Crystallisation temperature (1:1)(ASTM D

1177): typ. -37° C Boiling point: no data

Others:

Flash point (PM) (ASTM D 93): min. 120°C Ignition point: no data Flammability: no data Explosion limits: lower/upper: no data Decomposition temperature: unknown Oxidizing properties: no data Vapour pressure at 20°C: no data

Density at 20°C(ASTM D 1122): $1.12 - 1.14 \text{ g/cm}^3$

Solubility in water at 20°C: soluble in all proportion

Thermal decomposition: no data n-Octanol/water partition coefficient: no data Kinematic viscosity at 20°C: no data pH (ASTM D 1187): typ. 7.2

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

products:

Nota:

reactions: Not known.

10.4 Conditions to avoid: Direct heat or ignition sources.

10.5 Incompatible materials: Strong oxidizing agents.

10.6 Hazardous decomposition No dangerous decomposition products are formed under normal

> conditions. Hazardous combustion products: See Section 5. Vapours of ethanediol heavier than air and form explosive

mixture with air.





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Section 11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity: No data for the product.

Oral:

Note: Harmful if swallowed.

Ethanediol:

Oral: LD (human): 1200-1500 mg/kg Oral (OECD 401): LD₅₀ (rat): 5840 mg/kg

 LD_{50} (guinea pig): 6610 mg/kg LD_{50} (mouse): 2780 mg/kg

Dermal (OECD 402): LD₅₀ (rabbit): 9530 mg/kg

Note: The main component is ethanediol symptoms of glycol

poisoning: breathing disorders, paralysis of central nervous

system and in case of severe toxicosis may be fatal.

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.

Acute toxicity: irritation

Inhalation: not irritant (based on components)

Note: Elevated temperatures, mixing or mechanical action may form mists,

which may cause slightly burning effects in nose, throat and lungs.

Skin contact: not irritant (based on components)

Note: 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.

Eye contact: not irritant (based on components)

Note: May cause slight irritation: transient burning effects, mild redness

and/or dim sight.

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.

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

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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: not classified

Nota: If swallowed may cause mental confusion, central

nervous system effects and kidney damage.

Aspiration hazard: May cause vomiting when ingested. Aspiration into

the lungs may cause chemical pneumontitis.

Section 12 Ecological information

12.1 Toxicity No data available for the preparation.

Ethanediol:

Aquatic organisms: Fish toxicity: $LC_{50} > 100 \text{ mg/l}$ (Literature)

Daphnia toxicity: EC_{50} >100 mg/l (Literature) Algae toxicity: IC_{50} >100 mg/l (Literature) Bacteria toxicity: >1000 mg/l (Literature)

12.2 Persistence and degradability

Soil organisms:

Biodegradability: Readily degradable. (Literature)

12.3 Bioaccumulative potential Has low bioaccumulation (ethylene glycol)

12.4 Mobility

Mobility in soil: Large spills to soil can contaminate groundwater.

Mobility in water: No data available.

12.5 Results of PBT and vPvB Does not contain PBT and vPvB substances.

assessment

12.6 Other adverse effects

Biological oxygen demand: *Ethanediol:* BOD: 0,81 g/g (Literature) Chemical oxygen demand: *Ethanediol:* COD: 1,29 g/g (Literature)





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Heavy metal content:

None.

PCT, PCB and other chlorinated

None.

hydrocarbons:

Effects on activated sludge: The product can be disposed in wastewater treatment

plant – biological stage of treatment (activation) after dilution in the ratio 1:1000 and after approval of

relevant authority and manager of the sewer.

Environmental effects:

Do not empty into waterways without disposal.

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: 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:

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)

Acute Tox. 4 H302 (calculated) STOT RE 2 H373 (calculated)

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

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H360FD May damage fertility. May damage the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure

through prolonged or repeated exposure.

Acute Tox. 4 Acute toxicity Category 4

Eye Irrit. 2 Serious eye damage/eye irritation Category 2

Repr. 1B Reproductive toxicity Category 1B

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

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 Biocontrentration 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 Carcigonic, Mutagenic or toxic to Reproduction

COD Chamical Oxygen Demand
CSA Chemical Safety Assessment
CSR Chemical Safety Report
DMEL Derived Minimal Effect Level
DNEL Derived No Effect Level
ECHA European Cheamicals Agency





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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%) 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	Details of the supplier of the safety data sheet, Responsible for	05.01.2016	2
	SDS		
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		