



SAFETY DATA SHEET

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

Trade name: **EVOX Ice-crystal -40 scented winter screenwash, ice-crystal**

Version: 15 Latest revision: 16.02.2016 Date of issue: 03. 09. 2004 Page: 1/(14)

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

1.1 Product identifier:

EVOX Ice-crystal -40 scented winter screenwash, ice-crystal

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

Relevant identified uses: scented winter screenwash, ice-crystal

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

Health Toxicological Information Service (ETTSZ 1096 Budapest, Nagyváradi 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:

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

2.2 Label elements

Product identification: Trade name: **EVOX Ice-crystal -40 scented winter screenwash, ice-crystal**

Hazardous components: -

GHS Pictogram:



Signal word: **Danger**

Hazard statement:

H225 Highly flammable liquid and vapour.

Precautionary statements – General:

P102 Keep out of reach of children.

Precautionary statements – Prevention:

P210 Keep away from heat, sparks, open flames, hot surfaces. – No smoking.

P233 Keep container tightly closed.

Precautionary statements – Response:

P301+P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

Precautionary statements – Storage: -

Precautionary statements – Disposal:

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

Other liabilities for labelling:

Tactile warning of danger: in case of distribution for population

Transport classification: see section 14.

By regulation No 648/2004/EC on detergents:

Contains: fragrance.

The website, where the list of ingredients is available: 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.

Section 3 Composition/information on ingredients

3.2 Mixtures

Chemical description: Mixture of water, alcohols, monoethylene glycol, tenside, flavour, colorific and other additives.

Component(s) / Hazardous component(s):

Name	EU number	CAS number	Hazard classes and cat.	Hazard statements	Conc. % (m/m)
Ethanol	200-578-6	64-17-5	Flam. Liq. 2	H225	max. 55
Isopropyl alcohol REACH registration Nr.: 01-2119457558-25-0000	200-661-7	67-63-0	Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	H225 H319 H336	max. 5
Ethanediol REACH registration Nr.: 01-2119456816-28-0024	203-473-3	107-21-1	Acute Tox. 4 STOT RE 2	H302 H373	max. 3

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 exposed person to fresh air and keep warm. If breathing is difficult, apply artificial respiration or administer oxygen. Get medical attention.

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



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Eye contact: Flush immediately with plenty of running water for at least 15 minutes, holding the eyelids open. Get medical attention.

Ingestion: Give plenty of water! Get immediately medical attention.

Protection of first-aid person: No individual specifications.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation or swallowing of material may have narcotic effects, which may cause losing consciousness.

4.3 Indication of any immediate medical attention and special treatment need

Treat symptomatically.

5. Section **Fire-fighting measures**

Fire hazards:

Explosive.

5.1 Extinguishing media

Suitable extinguishing media:

Alcohol resistant foam dry chemical, water spray, CO₂.

Unsuitable extinguishing media:

No data.

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:

Accordance with current regulations.

Recommend wearing self-contained breathing apparatus.

Further information:

Cool containers exposed to fire with water spray from safe distance.

Vapours may form explosive mixture with air.

Section 6 **Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: see Section 8.



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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.

Recover free liquid by pumping. Contain spilled liquid with sand, earth or other suitable absorbents. 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.

Take precautionary measures against static discharges.

Avoid contact with skin and eyes, inhalation of vapours.

Avoid contact with skin and eyes. Avoid breathing of vapours.

Ensure washing facilities after working hours and before breaks. Take off contaminated clothing, wash with warm water and soap.

When using do not eat or drink and do not smoke.

Handling temperature:

7.2 Conditions for safe storage, including any incompatibilities

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

Keep out of the reach of children. Keep away from food, drink.

Storage temperature: max. 35°C

7.3 Specific end use(s)

Scented winter screenwash, ice-crystal.



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Section 8 Exposure controls / personal protection

Engineering control measures:

Adequate ventilation.

8.1 Control parameters:

EU [2000/39/EC]

<i>Ethanediol:</i>	8 h	52 mg/m ³
	Short-term	104 mg/m ³

USA [ACGIH]

<i>Isopropyl alcohol:</i>	TLV (TWA)	980 mg/m ³ (400 ppm)
<i>Ethanol:</i>	TLV (TWA)	1920 mg/m ³ (1000 ppm)

8.2 Exposure controls

Personal protection:

Respiratory protection: Not required, when vapours / aerosols are generated (Filter A for vapours of organic compounds).

Hand protection: protective gloves
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.

9. Section Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:

Physical state:	liquid
Colour:	blue, clear
Odour:	fragrance of fruits

Change in physical state:

Freezing point (ASTM D 1177):	< -40°C
Boiling point:	not determined



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Others:

Flash point (closed cup):	28°C
Ignition point:	no data
Flammability:	no data
Explosion limits: lower/upper:	does not flash
Decomposition temperature:	unknown
Oxidizing properties:	no data
Vapour pressure at 20°C:	no data
Density at 20°C (DIN 51757):	0.897-0.920 g/cm ³
Solubility in water at 20°C:	soluble in all proportion
Thermal decomposition:	no data
n-Octanol/water partition coefficient:	no data
pH (at 20°C in original condition):	no data

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: | 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. |

Section 11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity: No data for the product.

Note: In high concentration and prolonged exposure the vapours are narcotic if inhaled.
Inhalation of vapours may cause drowsiness, indisposition, stomachache, headache, depression, and unconsciousness.



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Components:

Ethanol:

Oral (OECD 401): LD₅₀ (rat): 7060 mg/kg

Dermal (OECD 402): no data

Inhalation (OECD 403): LC₅₀ (rat): 20000 ppm/10 /h

Isopropyl alcohol:

Oral (OECD 401): LD₅₀ (rat) 2000 mg/kg

Dermal (OECD 402): LD₅₀ (rabbit) 2000 mg/kg

Inhalation (OECD 403): no data

Acute toxicity: irritation

Skin contact: not irritant (based on components)

Eye contact: not irritant (based on components)

Note: Prolonged and/or repeated contact may cause skin irritation, depending on individual sensitivity. May be irritating to eyes.

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: not classified

Aspiration hazard: not classified

Section 12 Ecological information

12.1 Toxicity No data available for the preparation.

Components:

Ethanol:

Aquatic organisms: Fish toxicity: LC₁₀₀ 9000 mg/l/24 h

Daphnia toxicity: EC₀ > 7800 mg/l

Algae toxicity: EC₀ > 5000 mg/l



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Isopropyl alcohol:

Aquatic organisms:	Fish toxicity:	LC ₅₀	> 100 mg/l/48 h
	Daphnia toxicity:	EC ₅₀	>100 mg/l/48 h
	Algae toxicity:	no data	
Soil organisms:	no data		
Plants:	no data		

12.2 Persistence and degradability

Biodegradability: Readily degradable. (Literature)
Biodegradability of surfactants comply with the criteria of regulation 648/2004/EG.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility

Mobility in soil: No data.
Mobility in water: Soluble in water, the surface water vaporizes.

12.5 Results of PBT and vPvB assessment

Does not contain PBT and vPvB substances.

12.6 Other adverse effects

Biological oxygen demand: No data.
Chemical oxygen demand: No data.
Heavy metal content: None.
PCT, PCB and other chlorinated hydrocarbons: None.
Environmental effects: 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: 07 01 04*

Other organic solvents, washing liquids and mother liquors.

Disposal must be in compliance with national and local regulations.



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Recommended waste treatment method: no data

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:	1170
14.2. UN proper shipping name:	ETHANOL SOLUTION
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

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.



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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.

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)

Flam. Liq. 2 H225 (on basis of tests data)

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

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure through prolonged or repeated exposure.



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Flam. Liq. 2	Flammable liquid Category 2
Acute Tox. 4	Acute toxicity Category 4
Eye Irrit. 2	Serious eye damage/eye irritation Category 2.
STOT SE 3	Specific target organ toxicity — single exposure Category 3
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	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
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



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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 Section	08.10.2004	1
	1 Section	01.09.2005	2
1	1, 15, 16 Section	25.07.2006	3
2	2, 15 Section	30.08.2006	4
	5 Section	21.11.2006	5
1-16	Revision modification according to REACH (1907/2006/EC), other correction	20.07.2007	6
3 7 8 12 15 16	Composition / information on ingredients Handling and storage Exposure controls / personal protection Ecological information Regulatory information Other information	06.09.2007	7
1-16	Other corrections	06.10.2008	8
3 5 13 15	Composition / information on ingredients Fire-fighting measures Disposal considerations Regulatory information – S-phrases	10.12.2008	9
12 14 15	Ecological information Transport information Regulatory information	08.07.2010	10



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Revision Indicators:

Section	Subject of change	Date	Version
5 9	Fire-fighting measures Flash point	28.07.2010	11
3 1-16	Composition/information on ingredients Revision modification according to 1272/2008/EC	23.09.2011	12
2 3 9	Label elements Composition/information on ingredients Physical and chemical properties	14.08.2012	13
1 1-16	Details of the supplier of the safety data sheet, Responsible for SDS Other corrections, revision modification according to 2015/830 /EC	05.01.2016	14
2	Label elements	16.02.2016	15