

# SAFETY DATA SHEET

**MOL-LUB Ltd.**

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

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

Version: 12    Latest revision: 05.06.2012.    Date of issue: 03. 09. 2004    Page: 1/(12)

## 1. Identification of the mixture 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 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 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 HSE, SD and QOP

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 (07-15<sup>20</sup> h): +36 34 526 210 (CET) on workdays

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:

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## 2. Hazards identification

2.1 Classification of the mixture according to 1999/45/EC

2.1.1 Classification of the substance according to regulation (EC) No 1272/2008

Hazard Class and Category:    Hazard statement:

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

2.1.2 Classification of the substance according to regulation (EEC) No 67/548

Human health hazards:    Danger symbol not required.

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.  
Prolonged and/or repeated contact may cause skin irritation, depending on individual sensitivity. May be irritating to eyes.  
(See also Protective equipment).

Safety hazards:    F (highly flammable)

R 11    Highly flammable

Environmental hazards:    Danger symbol not required.

Note:    May be harmful to aquatic organisms.

2.2 Label elements (EC) No 1272/2008

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

GHS Pictogram:



Signal word:    **Danger**

Hazard statement:

**H225**    Highly flammable liquid and vapour.

Precautionary statements - Prevention

**P102**    Keep out of reach of children.

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

**P233**    Keep container tightly closed.

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Precautionary statements - Prevention

**P301+P315** IF SWALLOWED: Get immediate medical advice/attention.

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](http://www.kenoanyag.mol.hu)

## 2.3 Other hazards





No data available

## 3. Composition/information on ingredients

### 3.1 Mixtures

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

Ingredients:

Name	EINECS number	CAS number	Hazard symbol / Hazard classes and cat.	Risk phrase / Hazard statements	Conc. %(m/m)
Ethanol 	200-578-6	64-17-5	67/548/ERC: F 1272/2008/EC: Flam. Liq. 2	R 11 H225	max. 55
Propan-2-ol   Registration Nr.: 01-2119457558-25-0000	200-661-7	67-63-0	67/548/EEC: F, Xi 1272/2008/EC: Flam. Liq. 2 Eye Irrit. 2 STOT SE 3	R 11, R 36 R 67 H225 H319 H336	max. 5
Ethanediol  Registration Nr.: 01-2119456816-28-0024	203-473-3	107-21-1	67/548/EEC: Xn 1272/2008/EC: Acute Tox. 4 STOT RE 2	R 22 H302 H373	max. 3

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

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## 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.

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.

### 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. Fire-fighting measures

Fire hazards:

See also Section 9 - flash point.

### 5.1 Extinguishing media

Suitable extinguishing media:

Alcohol resistant foam dry chemical, water spray, CO<sub>2</sub>.

Unsuitable extinguishing media:

No data.

### 5.2 Special hazards arising from the mixture

Hazardous combustion products:

On burning carbon-monoxide can be formed.

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## 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.

## 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.

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.

## 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:

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- 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.

## 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 <sup>3</sup>
	Short-term	104 mg/m <sup>3</sup>

*USA [ACGIH]*

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

### 8.2 Exposure controls

Personal protection:

Respiratory protection: 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: chemical goggles

Skin protection: protective clothing

Other special: No data.

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 (ASTM D 1500):	blue
Odour:	fragrance of fruits

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## Change in physical state:

Pour point (DIN/ISO 3016):	< -40°C
Boiling point:	not determined

## 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):	0.92 g/cm <sup>3</sup>
Solubility in water at 20°C:	soluble in all proportion
Thermal decomposition:	no data
n-Octanol/water partition coefficient:	no data
pH:	no data

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:	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.
Nota:	-

## 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):	LD <sub>50</sub> (rat):	7060	mg/kg
Dermal (OECD 402):	no data		
Inhalation (OECD 403):	LC <sub>50</sub> (rat):	20000	ppm/10 /h

### *Propan-2-ol:*

Oral (OECD 401):	LD <sub>50</sub> (rat)	2000	mg/kg
Dermal (OECD 402):	LD <sub>50</sub> (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)

Chronic toxicity:    not known

Repeated dose toxicity:    not known

## 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)

## 12. Ecological information

12.1 Toxicity    No data available for the preparation.

### *Components:*

### *Ethanol:*

Aquatic organisms:	Fish toxicity:	LC <sub>100</sub>	9000	mg/l/24 h
	Daphnia toxicity:	EC <sub>0</sub>	> 7800	mg/l
	Algae toxicity:	EC <sub>0</sub>	> 5000	mg/l



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## *Propan-2-ol:*

Aquatic organisms:	Fish toxicity:	LC <sub>50</sub>	> 100 mg/l/48 h
	Daphnia toxicity:	EC <sub>50</sub>	>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)

### 12.3 Bioaccumulative potential

No data available.

### 12.4 Mobility

Mobility in soil: Soil soaks the product.

Mobility in water: Soluble in water.

### 12.5 Results of PBT and vPvB assessment

Not required.

### 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

## 13. Disposal considerations

### 13.1 Waste treatment methods

#### Product disposal:

Wastes of the product or used oil should be treated as hazardous waste.

EWC cod: 07 01 04\*

Other organic solvents, washing liquids and mother liquors.

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.

EWC cod: 15 01 10\*

Packaging containing residues of or contaminated by dangerous substances.

Disposal must be in compliance with national and local regulations.

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Recommended waste treatment method: no data

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.

## 14. Transport information

Land transport:

Road/ Railway

ADR/RID:

Class:

3

Classification code

F1

Packaging group:

III

Labels:

3

Hazard identification Number:

30

UN number:

1170 ETHANOL SOLUTION

Waterways:

Inland waterways/ Sea transport    ADN/IMDG:

Not classified.

Air transport:    ICAO / IATA:

Not classified.

## 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.: 453/2010/EC) and to Regulation (EC) 1272/2008.

15.2 Chemical safety assessment.

not available

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## 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

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

R 11	Highly flammable.
R 22	Harmful if swallowed.
R 36	Irritating to eyes.
R 67	Vapours may cause drowsiness and dizziness.
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.
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

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## 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
9 15	Composition / information on ingredients Regulatory information – S-phrases	10.12.2008	9
12 15	Ecological information Regulatory information	08.07.2010	10
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	05.06.2012	12