

Zolleks Avto d.o.o.

**ZOLLEX ICE REMOVER**

Date of issue: 10/07/2014  
Version: 1

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

### 1.1 Product identifier

Trade name                    **ZOLLEX ICE REMOVER**  
Substance/mixture        Mixture

### 1.2 Relevant identified uses of the substance/mixture and inadvisable uses

Identified uses:            Ice remover

### 1.3 Details of the supplier of the Safety Data Sheet

#### **Supplier:**

Zolleks Avto d.o.o.  
Kidričeva cesta 97  
SI-4220 Škofja Loka

Telephone: +386 4 502 07 10  
Telephone: +386 4 502 07 19

**E-mail address of the person responsible for drawing up the Safety Data Sheet:**  
[info@zollex.si](mailto:info@zollex.si)

### 1.4 Emergency telephone number

Emergency call – Slovenia: 112

## 2. HAZARD IDENTIFICATION

### **2.1 Classification of the substance/mixture**

**Classification in accordance with Directive 67/548/EEC or 1999/45/EC**

F+; R12

For the full text of the R-phrases mentioned in this Section, see Section 16.

**Classification in accordance with Regulation 1272/2008**

Flam.aerosol 1; H222

For the full text of the H-statements mentioned in this Section, see Section 16.

### 2.2 Label elements

**Classification in accordance with Regulation 1272/2008**

Pictogram:



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Signal word: HAZARDOUS  
Hazard statements:  
H222 Extremely flammable aerosol.

Pressurized container: can explode if heated. Keep away from heat/sparks/open fire/hot surfaces.  
– Smoking is forbidden. Pressurized container: do not pierce or burn, even when empty. Protect from sunlight. Do not expose to temperatures above 50°C/122°F. Keep out of reach of children. Do not spray towards an open fire or any other source of ignition.

**2.3. Other hazards**

None.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2. Mixtures**

Chemical Name	CAS ES Index	REACH Reg. No.	Content in %	Classification (Directive No. 67/548)	Classification (Regulation No. 1272/2008)
Ethanol	64-17-5 200-578-6 603-002-00-5	-	60~80%	F; R11	Flam. Liq. 2; H225
Ethanediol	107-21-1 203-473-3 603-027-00-1	-	10~20%	Xn; R22	Acute Tox. 4 *; H302
Gas as a result of petroleum oil processing, liquefied	68476-85-7 270-704-2 649-202-00-6	-	10~30%	F+; R12	Press.Gas Flam. Gas 1; H220 <i>Note U, K, S</i>

For the full text of the R-phrases mentioned in this Section, see Section 16.  
For the full text of the H-statements mentioned in this Section, see Section 16.

**4. FIRST AID MEASURES**

**4.1 Description of first-aid measures**

- Inhalation** Move affected person to fresh air. If necessary, apply artificial respiration. Never put anything into the mouth of an unconscious person.
- Skin contact** In case of irritation, immediately wash the skin with plenty of water and rinse thoroughly. If discomfort persists, seek medical advice.
- Eye contact** Immediately wash the eyes with plenty of water for at least 15 minutes. Wash the eyelids as well. Remove contact lenses, if present and easy to do. Continue rinsing. If discomfort persists, seek medical advice.
- Ingestion** Do not induce vomiting, seek medical attention.

**4.2 Most important symptoms and effects, both acute and delayed**

- Inhalation:** Symptoms may include cough, sneezing, snivel, headache, dry throat and nose and sore throat.

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- Skin contact:** Symptoms may include local skin redness, swelling and itching.
- Eye contact:** Symptoms may include eye redness, swelling, pain, lacrimation and blurred vision.
- Ingestion:** Symptoms may include stomach aches, gastric irritation, nausea, vomiting and diarrhoea.

**4.3 Indication of immediate medical attention and special treatment needed, if necessary**

Treat symptomatically.

**5. FIRE-FIGHTING MEASURES****5.1 Extinguishing agents****Suitable extinguishing agents** Carbon dioxide, powder (fire extinguisher class B).**Unsuitable extinguishing agents** Solid water stream as it may spread the fire.**5.2 Special hazards arising from the substance or mixture****Special hazards** Keep containers cool with water spray from a safe distance.**5.3 Advice for fire-fighters****Special protective equipment for fire-fighters** Wear self-contained breathing apparatus that is independent of the ambient atmosphere and protective clothing in case of risk of exposure to product vapours or combustion fumes.**6. ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Ventilate the area. Remove all sources of ignition.

**6.2 Environmental precautions**

No information available.

**6.3 Cleaning up methods, materials and retention**

Blot dry spill with adsorbent non-flammable material and close it in appropriately labelled disposal containers. Wash out the area with water. The containers should be physically collected. Dispose in accordance with description in Section 13.

**6.4 Reference to other sections****Personal protective equipment** See Section 8.  
**Waste management** See Section 13.**7. HANDLING AND STORAGE****7.1 Precautions for safe handling**

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- Advice for safe handling** Avoid eye contact. Keep out of the reach of children.  
Do not breathe vapour/mist.
- Advice for fire safety** Keep away from sources of ignition — no smoking. Keep away from heat, sparks and open fire.

**7.2 Conditions for a safe storage, including any incompatibilities**

**Technical measures/storage conditions** Keep container tightly closed in a dry and cool place.  
Keep away from food, drink and animal feedingstuffs.  
Maximum storage period: 2 years. Do not expose to direct sunlight.

**Incompatible materials** No information available.

**7.3 Specific end uses** No information available.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

Occupational exposure limit values for ingredients:

Ethanol, CAS 64-17-5  
MV: 1900 mg/m<sup>3</sup>, 1000 ppm, STEL: 4, note; Y

Ethanediol, CAS 107-21-1  
MV: 52 mg/m<sup>3</sup>, 20 ppm, KTV:2, Note: K, EU

Source: Rules on the protection of workers from the risks related to exposure to chemical substances at work (OG RS No. 102/2010)

**8.2 Exposure controls**

**Engineering controls** Use only in well-ventilated areas. In confined spaces use general ventilation or local suction system. The standard precautionary measures are to be adhered to when handling chemicals.

**Personal protective equipment**

**General information** When using this product do not eat or drink.

**Respiratory protection** Prevent breathing vapour or mist. In case of insufficient ventilation use half mask or mask with respirator and filter of organic product vapours.

**Hand protection** Not required.

**Eye protection** Tight-fitting safety glasses.

**Skin and body protection** Not intended.

**8.3. Environmental exposure controls**

**General information** Not determined.

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Appearance	Clear liquid
Colour	Distinctive
Odour	Distinctive
pH	No information available.
Flash point	No information available.
Boiling point	No information available.
Vapour pressure	No information available.
Density	0.75 g/cm <sup>3</sup>
Vapour density (air = 1)	2.97
Content of VOC	< 650 g/l
Evaporation rate	No information available.
Water solubility	No information available.

**9.2 Other information** No information available.**10. STABILITY AND REACTIVITY**

- 10.1 Reactivity** No information available.
- 10.2 Chemical stability** Product is stable under normal use conditions.
- 10.3 Possibility of hazardous reactions:** Hazardous polymerisation will not occur.
- 10.4 Conditions to avoid** Avoid heat, flames and other sources of ignition.
- 10.5 Incompatible materials:** Strong oxidising agents.
- 10.6 Hazardous decomposition products** No information available.

**11. TOXICOLOGICAL INFORMATION**

- (a) Acute toxicity No information available.
- (b) Irritation No information available.
- (c) Corrosivity No information available.
- (d) Sensitization No information available.
- (e) Repeat dose toxicity No information available.
- (f) Carcinogenicity No information available.
- (g) Mutagenicity No information available.
- (h) Toxicity for reproduction No information available.

**12. ECOLOGICAL INFORMATION**

- 12.1 Toxicity** No information available.
- 12.2 Persistence and degradability** No information available.
- 12.3 Bioaccumulative potential** No information available.
- 12.4 Mobility in soil** No information available.

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Contaminated packaging: Packaging is not reusable. Packaging must be disposed at an authorised collector and disposer of hazardous waste.

National regulations regarding waste:

- Decree on waste
- Decree on the management of packaging and packaging waste

**14. TRANSPORT INFORMATION**

- 14.1 UN number: UN1950
- 14.2 UN proper shipping name: AEROSOLI, VNETLJIVI  
AEROSOLS, FLAMMABLE
- 14.3 Transport hazard classification: 2.1
- 14.4 Packaging group: -
- 14.5 Environmental hazard: Sea pollutant: No.
- 14.6 Special precautions for user: Tunnel Restriction Code: (D)
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

**15. REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****European Union**

Regulation 1907/2006 (REACH), Directive 67/548/EEC and 1999/45/EC

**Regulations in Slovenia**

- Chemicals Act
- Rules on the classification, packaging and labelling of dangerous substances
- Rules on the classification, packaging and labelling of dangerous preparations
- Decree on waste
- Decree on the management of packaging and packaging waste
- Rules on the protection of workers from the risks related to exposure to chemical substances at work
- Rules on personal protective equipment used by workers at work

**15.2 Chemical safety assessment** Chemical safety assessment has not been made.**16. OTHER INFORMATION****16.1 Source of the Safety Data Sheet:** Composition of the product, manufacturer's safety data

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**16.2 List of relevant R phrases, hazard statements, safety phrases and / or precautionary statements**

R11 Highly flammable.  
R12 Extremely flammable.  
R22 Harmful if swallowed.

H220 Extremely flammable gas.  
H222 Extremely flammable aerosol.  
H225 Harmful if swallowed.  
H302 Harmful if swallowed.

**16.3 Date of previous issue:** -**16.4 Abbreviations:**

TWA (time-weighted average): daily exposure limit value (8 h)  
STEL (short-term exposure limits): limit value for short-term exposure  
REACH – Registration, Evaluation, Authorisation and Restriction of Chemicals  
MV: occupational exposure limit value 8 h

The above information is based on our present knowledge and experience and relates to the product in the state in which it has been delivered. The information is to describe our product regarding safety requirements. Entries do not constitute a guarantee of the product properties in the legal sense. It is the consumer's responsibility to know and take into account the legal provisions relating to the transport and use of the product.

**End of the Safety Data Sheet**