

Safety Data Sheet
in accordance with Regulation (EC)
No. 1907/2006

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Zolleks Avto d.o.o.

ZOLLEX DE-ICER

Date of issue: 08/09/2016
Version: 1

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

1.1 Product identifier

Trade name	ZOLLEX DE-ICER
Substance/mixture	Mixture
Code	DS07

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

Identified uses: Automotive glass de-icer

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@zolleks.si

1.4 Emergency telephone number

Emergency call – Slovenia: 112

2. HAZARD IDENTIFICATION

2.1 Classification of the substance/mixture

Classification in accordance with Regulation (EC) No. 1272/2008

Flam. Liq. 3; H226
Eye Irrit.2; H319
STOT SE 3; H336

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

2.2 Label elements

Classification based on Regulation (EC) No. 1272/2008



Signal word: Caution

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Hazard statements:
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Contains: Propan-2-ol

Precautionary statements:
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. No smoking.
P261 Avoid breathing vapours.
P280 Wear eye protection/face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container in accordance with local/national regulations.

2.3. Other hazards

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Chemical Name	CAS ES Index	REACH Reg. No.	Content in %	Classification based on the Regulation (EC) No. 1272/2008
Propan-2-ol	67-63-0 200-661-7 603-117-00-0	-	<80.0	Flam. Liq. 2; H225 Eye Irrit.2; H319 STOT SE 3; H336
Amines, coco alkyldimethyl, N-oxides	61788-90-7 - -	-	<3.0	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400 M=1

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 and roll the entire body at one time to the side. Keep affected person warm and at rest. If breathing is difficult, administer oxygen. Consult a doctor.
Skin contact	Immediately remove contaminated clothing and shoes. Wash the skin with plenty of water and soap. If irritation persists, seek medical advice.
Eye contact	In case of contact with eyes, rinse immediately with plenty of water for at least 15 minutes. Wash the eyelids as well. Seek medical attention.
Ingestion	Seek medical attention immediately. Do not induce vomiting! If swallowed, rinse mouth with water (only if the affected person is conscious). Never put anything into the mouth of an unconscious person.

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4.2 Most important symptoms and effects, both acute and delayed

Inhalation:	May cause headache, drowsiness or dizziness.
Skin contact:	May cause skin dryness.
Eye contact:	Causes serious eye irritation. May cause burning sensation and eye redness.
Ingestion:	May cause 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, foam, powder or split water spray.
Unsuitable extinguishing agents	Direct water stream.

5.2 Special hazards arising from the substance or mixture

Special hazards	In case of fire, use split water spray.
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5.3 Advice for fire-fighters

Special protective equipment for fire-fighters	Full protective clothing (SIST EN 469), helmet (SIST EN 443), protective boots (SIST EN 15090), protective gloves (SIST EN 659) and autonomous breathing apparatus (SIST EN 137)
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6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For untrained personnel:	Use personal protective equipment. In case of large spill, alert rescue personnel. Avoid direct contact with product. Avoid contact with eyes and skin. No smoking. Vapours are heavier than air and accumulate on the ground, which presents a risk of suffocation.
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For rescue personnel:	Use personal protective equipment. Provide appropriate ventilation. No smoking. Remove all sources of ignition. Evacuate personnel to safe area.
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6.2 Environmental precautions

Do not allow into drains/surface water/groundwater. Blot dry spilled material with appropriate absorbent (sand, soil and other suitable inert absorber) and dispose in accordance with description in Section 13.

6.3 Cleaning up methods, materials and retention

Small spill: Blot dry spilled material with appropriate absorbent (sand, soil and other suitable inert absorber) and place it in suitable removal containers in accordance with description in Section 13.

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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

Advice for safe handling Avoid contact with eyes, skin and clothing. After using this product thoroughly wash your hands with soap and water. Carefully close the open container. When using the product do not eat, drink or smoke. Consider general occupational hygiene. Do not breathe vapour. Keep container tightly closed. Take precautionary measures against static discharges.

7.2 Conditions for a safe storage, including any incompatibilities

Technical measures/storage conditions Store in tightly closed original container. Store in a dry, cool and well-ventilated place. Keep away from food, drink and animal feedingstuffs. Keep at temperature of up to +35°C. Keep away from sources of ignition – no smoking.

Incompatible materials No information available.

7.3 Specific end uses No information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1. Occupational exposure limit values for ingredients:

CAS: 67-63-0, propan-2-ol
MV: 500 mg/m³, 200 ppm, STEL:4, Note: Y, BAT

Biological limit values for 2-propanol:

Characteristic indicator	Biological sample	Sampling time	Biological limit values (BAT)
Acetone	Blood	At the end of the shift	50 mg/l
Acetone	Urine	At the end of the shift	50 mg/l

Slovenia:

Source: Rules on the protection of workers from the risks related to exposure to chemical substances at work (OG RS No. 100/01, 39/05, 53/07, 102/10, 43/11 – Health and Safety at Work Act-1 and 38/15)

8.1.2. Information on monitoring procedures

SIST EN 14042:2003 Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents

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8.1.3. PNEC

PNEC for mixture: 50 mg/m³

PNEC for propan-2-ol: 10 mg/m³

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Use only outdoors. When using this product do not eat, drink or smoke.

8.2.2 Individual protection measures, such as personal protective equipment

General information Immediately remove contaminated, soaked clothing. Wash hands and face after work. When using this product do not eat, drink or smoke.

Respiratory protection Not required in normal use. In case of vapour formation use protection mask with a vapour filter.

Hand protection Not required in normal use.

Eye protection Not required in normal use. Tight-fitting safety goggles in accordance with standard SIST EN 166 where eye exposure is reasonably probable.

Skin and body protection Not required in normal use.

8.2.3. Environmental exposure controls

General information Not determined.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid
Colour	Transparent
Odour	Distinctive
Odour threshold values	Not applicable
pH	6-8 (100%)
Melting/freezing point	No data available
Autoflammability temperature	No data available
Initial boiling point and boiling range	No data available
Flash point	>28°C
Evaporation rate	No data available
Flammability	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	0.8-0.9 g/cm ³ (at 20°C)
Water solubility	Soluble in cold water
Partition coefficient: n-octanol/water	No data available
Self-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

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Explosive properties	No data available
Oxidising properties	No data 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 and storage conditions.

10.3 Possibility of hazardous reactions

Exposure to fire and heat.

10.4 Conditions to avoid

Avoid excessive heat, fire and sources of ignition.

10.5 Incompatible materials

No information available. Strong oxidising agents, strong acids.

10.6 Hazardous decomposition products

No information available.

11. TOXICOLOGICAL INFORMATION

(a) Acute toxicity

Not classified.

Propan-2-ol, CAS: 67-63-0

LD50 – oral, mouse: 5045 mg/kg

LD50 – dermal, rabbit: 12800 mg/kg

LC50 – inhalable, rat: >20 mg / 1 / 8 hours (High concentrations may cause central nervous system depression which results in headache, dizziness and nausea. Further inhalation may cause unconsciousness and/or death).

(b) Skin corrosion/irritation

Not irritating to the skin. Prolonged contact may defat skin and cause dermatitis.

(c) Serious eye damage/irritation

Causes serious eye irritation.

(d) Respiratory or skin sensitisation

Not classified.

(e) Germ cell mutagenicity category

Not classified.

(f) Carcinogenicity

Not classified.

(g) Toxicity for reproduction

Not classified.

(h) STOT – single exposure

May cause drowsiness or dizziness.

(l) STOT-repeated exposure

Not classified.

(j) Aspiration hazard

Not classified.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

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Constituent data:

Propan-2-ol, CAS: 67-63-0

- fish: LC / EC / IC50> 100 mg / l
- waterbirds: LC / EC / IC50> 1000 mg / l
- seaweed: LC / EC / IC50> 1000 mg / l
- micro-organisms: LC / EC / IC50> 1000 mg / l

12.2 Persistence and degradability

No information available.

Do not empty into drains.

Product meets the criteria for biodegradability in accordance with the Detergents Regulation 648/2004/EC.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

If product enters soil it will be very mobile and may contaminate groundwater.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

13.1 Waste management methods

Waste/product residues: Product and product residues dispose as hazardous waste disposed at an authorised collector and disposer of hazardous waste.

Contaminated packaging: Packaging is not reusable. Contaminated packaging should be disposed of as hazardous waste.
Completely cleaned packaging is suitable for recycling.

National regulations regarding waste:

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

14. TRANSPORT INFORMATION

14.1 UN number: UN 1993

14.2 UN proper shipping name: FLAMMABLE LIQUID, N.O.S.

14.3 Transport hazard classification: 3

14.4. Packing group: III

14.5 Environmental hazard: None

14.6 Special precautions for user: None

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Does not concern

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14.8. Additional information

ADR: limited quantities: LQ7

IMDG-EmS: F-E, S-D

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

Regulation 1907/2006/EC (REACH), Regulation (EC) No. 1272/2008

Content of HOS: 0%

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:

Manufacturer's safety data sheet ZOLLEX De-Icer DS07 (30/07/2016), code : 000027E

16.2 List of relevant hazard statements and/or precautionary statements

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.

16.3. Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road
RID: Regulation Concerning the International Carriage of Dangerous Goods by Rail
TWA (time-weighted average): Daily exposure limit value (8h) at the workplace
STEL: Short-term occupational exposure limit value
Ceiling: Peak limitation
MV: Occupational exposure limit value 8h
KTV: Short-term limit value
EC50: Median effective concentration
LC50: Lethal concentration, 50%
LD50: Median lethal dose
K: Characteristic of easy transfer of material into an organism through skin
Y: Substances that do not represent a risk of damage to embryo when BAT values are observed.

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BAT: Biological limit value.

16.4. Disclaimer

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