

Safety Data Sheet

ALDE ANTIFREEZE -37°C

Replaces date: 01-06-2015

Revision date: 20-12-2016

SECTION 1: Identification of the substance/preparation and of the company/undertaking

1.1. Product identifier

Trade name: ALDE ANTIFREEZE -37°C

Vendor article no

Vendor article no	Description
4070120	
4070121	
4070122	
4070123	
4070126	

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

Recommended uses: Ready-mixed glycol.

1.3. Details of the supplier of the safety data sheet

Supplier

Company: Alde International System AB
Address: Box 11066
Zip code: 291 11 Färlöv
Country: SWEDEN
E-mail: henrik.persson@alde.se
Phone: +46 44 71270
Homepage: www.alde.se
Contact person: Name: Henrik Persson, Phone: +46 44 71940, E-mail: henrik.persson@alde.se

1.4. Emergency Telephone Number

112 (SOS Alarm) (0-24)
+46 10 456 67 00 (Swedish Poisons information Center) (9-17)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP-classification: Acute Tox. 4;H302 STOT RE 2;H373 (Kidneys.)
Most serious harmful effects: Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure. (Kidneys.)

2.2. Label elements

Pictograms

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Signal word: Warning

Contains

Substance: 1,2-Ethanediol

H-phrases

H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure. (Kidneys.)

Supplemental information

P-statement:

P102 Keep out of reach of children. P405 Store locked up. P101 If medical advice is needed, have product container or label at hand. P301+P330+P310 IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER or doctor/physician. P261 Avoid breathing vapours. P264 Wash hands thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P501 Dispose of contents/container at approved collection point for hazardous waste in accordance with local and national regulations. P501 Empty (dry) and rinsed containers are sorted as plastic packaging.

2.3. Other hazards

The product does not contain any PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	CAS number	EC No	REACH Reg. No.	Concentration	Notes	CLP-classification
1,2-Ethanediol	107-21-1	203-473-3	01-2119456816-28	30 - 60%		Acute Tox. 4;H302 STOT RE 2;H373 (Kidneys.)
Hexanoic acid, 2-ethyl-, sodium salt	19766-89-3	243-283-8		0.5 - 2.5%		Repr. 2;H361d

Please see section 16 for the full text of H-phrases.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Fresh air. Get medical attention if any discomfort continues.

Ingestion: Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Immediately consult a doctor.

Skin contact: Wash skin thoroughly with soap and water. Remove contaminated clothing. Get medical attention if any discomfort continues.

Eye contact: Hold eyelids apart. Rinse with lukewarm water.

General: Show this safety data sheet, if possible.

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

Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure. Nephrotoxin. NOTE! Effects may be delayed. Keep affected person under observation.

4.3. Indication of any immediate medical attention and special treatment needed

No information available

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Fire can be extinguished with carbon dioxide, powder, foam, water or water spray.

Unsuitable extinguishing media: Avoid water in straight hose stream; will scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

In strong heat, combustible vapours are emitted. Solvent vapours may form explosive mixtures with air.

5.3. Advice for fire-fighters

General: Evacuate all personnel, use protective equipment for fire fighting. Use a portable breathing apparatus when the product is involved in a fire.

Other Information: Not flammable, but combustible. Containers close to fire should be removed or cooled with water. Do not allow extinguishing water or spillage to run out into the sewage system.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: Wear necessary protective equipment. See section 8.

6.2. Environmental precautions

Prevent discharges into the sewage system, watercourses or ground. Notify proper authorities in case of contamination of soil or aquatic environment or discharge to drains.

6.3. Methods and material for containment and cleaning up

Absorb in inert material (vermiculite, dry sand or earth) and collect. Sent for destruction. Minor spillage should be wiped away or flushed away with water.

6.4. Reference to other sections

See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Wash hands before breaks, before using restroom facilities, and at the end of work. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid contact with the skin and eyes. Avoid inhaling vapour/aerosol/mist.

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7.2. Conditions for safe storage, including any incompatibilities

Keep in original container. Keep separate from food, feedstuffs, fertilizers and other sensitive material.
Store isolated from oxidizing materials.

7.3. Specific end use(s)

No known information.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit

Substance name	Time period	ppm	mg/m3	Comment	Remarks
1,2-Ethenediol	8h	10	25		Sk
1,2-Ethenediol	15m	20	50		Sk

Sk = Can be absorbed through skin

8.2. Exposure controls

Appropriate engineering controls: Provide good ventilation.

Personal protective equipment, eye/face protection: Wear approved, tight fitting safety glasses where splashing is probable.

Personal protective equipment, hand protection: Protective gloves must be used if there is a risk of direct contact or splash. Use protective gloves made of: Butyl rubber. Nitrile rubber.

Personal protective equipment, respiratory protection: If ventilation is insufficient, suitable respiratory protection must be applied. Filter type: A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Liquid.
Colour	Pink.
Odour	Weak.
Solubility	Water soluble.
Explosive properties	No data
Oxidising properties	No data

Parameter	Value/unit	Remarks
pH (solution for use)	No data	
pH (concentrate)	~ 8.5	
Melting point	No data	
Freezing point	~ -37 °C	
Initial boiling point and boiling range	No data	
Flash Point	> 100 °C	
Evaporation rate	No data	
Flammability (solid, gas)	No data	
Flammability limits	No data	
Explosion limits	No data	

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Vapour pressure	No data	
Vapour density	No data	
Relative density	No data	
Partition coefficient n-octanol/water	No data	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
Viscosity	No data	
Odour threshold	No data	

9.2 Other information

Parameter	Value/unit	Remarks
Density	~ 1.08 g/cm ³	20°C

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at normal conditions.

10.2. Chemical stability

Stable under recommended storage and handling conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

No information available

10.5. Incompatible materials

Avoid contact with: Oxidizing substance. Strong alkalis. Strong acids.

10.6. Hazardous decomposition products

Gases that are dangerous to health are formed in a fire. Aldehydes. Ketone. Carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral:

Test data are not available.

May cause grogginess, dizziness, nausea, abdominal pain, muscular weakness and unconsciousness. May cause liver and/or renal damage.

Acute toxicity - dermal

1,2-Ethanediol

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Mouse	LD50		> 3500mg/kg			

May be absorbed through the skin.

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Acute toxicity - inhalation

1,2-Ethanediol

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
	LC50 (dust/mist)	6h	> 2.5mg/l			

May cause headache and dizziness.

Skin corrosion/irritation: Protracted or repeated contact may irritate the skin.

Serious eye damage/eye irritation: May cause smarting and temporary irritation.

Repeated STOT exposure: May cause damage to organs through prolonged or repeated exposure. Nephrotoxin.

SECTION 12: Ecological information

12.1. Toxicity

1,2-Ethanediol

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Acute algae		72h	EC50	> 100mg/l			
Acute fish	Leuciscus idus	96h	LC50	> 100mg/l			
Acute Daphnia	Daphnia magna	48h	EC50	> 100mg/l			

12.2. Persistence and degradability

1,2-Ethanediol

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
		28d		> 70%		#Not translated#	

Expected to be readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulation improbable.

12.4. Mobility in soil

No information available

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Other Information

Not regarded as dangerous for the environment. The assessment is based on the properties of the components.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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Local and EU regulations for refuse treatment must be followed. Residues and used product that cannot be reused must be treated as dangerous waste. Empty, cleansed packaging should be disposed of for recycling.

Category of waste: EWC code: Depends on line of business and use. Proposal EWC-code: 16 01 14 Suitable classification of waste is the responsibility of the user.

SECTION 14: Transport information

14.1. UN-No.:	Not applicable.	14.4. Packing group:	Not applicable.
14.2. UN proper shipping name:	Not applicable.	14.5. Environmental hazards:	Not applicable.
14.3. Transport hazard class(es):	Not applicable.		

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not applicable.

SECTION 15: Regulatory information

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

Special Provisions: Statute Book of the Swedish Work Environment "Occupational exposure limit values and measures against air contaminants", AFS 2015:7.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.
DIRECTIVE 2008/98/EC on waste.

15.2. Chemical Safety Assessment

Other Information: Chemical safety assessment has not been performed.

SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
1.0.0	25-03-2013	NW	1, 9.
2.0.0	01-06-2015	ÅM	2, 6, 7, 10, 11, 12, 15.
3.0.0	20-12-2016	ÅM	2, 3, 4, 5, 6, 7, 8, 10, 11, 13, 15.

Date: 07-06-2012

Classification method: Calculation based on the hazards of the known components.

List of relevant H-statements

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H302	Harmful if swallowed.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure. (Kidneys.)
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Document language: GB