

Safety data sheet

MEG 30-60 %

Version 1.0

Effective date: 28-09-2022



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

1.1 Product identifier.

Trade name: Protective Premium G13 Antifreeze.

Article number: 4070120, 4070121, 4070122, 4070123, 4070126.

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

Product use: Already mixed glycol.

Uses advised against: No further information available.

1.3 Details of the Supplier of the safety data sheet:

Supplier: Alde International Systems AB
Wrangels Allé
Box 11066
SE-291 11 Färlöv
Sweden
Tel: +46 (0)44 71940
Fax: +46 (0)44 71270

Contact: Thomas.Jonsson@alde.se

1.4 Emergency telephone number:

Use your national or local emergency number.
United Kingdom: Contact The National Poisons Information Service (dial 111, 24 h service).

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture according to CLP No 1272/2008/GB CLP.

Acute Tox. 4; H302, Repr. 2; H361d, STOT RE 2; H373.

2.2 Label elements according to CLP No 1272/2008/GB CLP:

Hazard pictograms:



Signal word:

Warning

Contains: Ethane-1,2-diol, Sodium 2-ethylhexanoate.

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Hazard statements:

H302 Harmful if swallowed.

H361d Suspected of damaging the unborn child.

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

Precautionary statements:

General:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Prevention:

P260 Do not breathe vapors.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

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

P308 + P313 IF exposed or concerned: Get medical advice/attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container to an approved waste disposal plant - Empty (drip-free) and thoroughly cleaned container is sorted as plastic packaging.

Additional labeling:

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2.3 Other hazards.

The product does not meet the criteria for PBT or vPvB.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Product is a mixture.

3.2 Mixture:

| CAS/EC-no. | REACH-no. | Name | Content % | Classification CLP |
|---------------------------|----------------------|-------------------------|-----------|---|
| 107-21-1 / 203-473-3 | 01-2119456816- 28 | Ethane-1,2-diol | 30≤60 | Acute Tox. 4; H302, STOT RE 2; H373. |
| 19766-89-3 / 243-283-8 | - | Sodium 2-ethylhexanoate | 0.5<2.5 | Repr. 2; H361d. |

See full text of H-phrases in section 16. Occupational limits are listed in section 8, if these are available.

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SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures:

- General information:** In case of doubt or symptoms: Contact a doctor or casualty department, show label if possible. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- Inhalation:** Remove person to fresh air and keep at rest. If in doubt or if symptoms persist, consult a doctor.
- Skin contact:** Wash skin thoroughly with soap and water. Remove contaminated clothing. If in doubt or if symptoms persist, consult a doctor.
- Eye contact:** Rinse cautiously with water for several minutes. If possible, remove contact lenses. If eye irritation persists: Get medical advice/attention.
- Ingestion:** Rinse mouth with water and drink plenty of water. Keep your head flat to prevent stomach contents from entering lungs. Do not induce vomiting. Contact a doctor immediately.

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

Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure. Can damage the kidneys. Risk of delayed injury. Keep person under observation.

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

Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media: Water or water spray/mist, dry chemical, foam, carbon dioxide (CO₂).

Unsuitable extinguishing media:

Water jets should not be used, since they can spread the fire.

5.2 Special hazards arising from the substance or mixture:

At high temperatures, flammable vapors are formed.
Vapors can form an explosive mixture with air.

5.3 Advice for firefighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent firefighting water from entering the environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

See section 8 for recommendations on the use of personal protective equipment. Keep away from heat / sources of ignition.

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6.2 Environmental precautions:

Avoid discharge to lakes, streams, sewers, etc. Notify authorities if large quantity liquid enters sewers or public waters.

6.3 Methods and material for containment and cleaning up:

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece).
Larger spills are to be absorbed with sand, earth or similar materials.
Flush residues away with plenty of water.
Collected material is disposed of in accordance with section 13.

6.4 Reference to other sections:

See section 8 for personal protection.

See section 13 for disposal.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Use good industrial hygiene practices are recommended when handling the product. Ensure good ventilation/exhaustion at the workplace.
Pregnant women should not be exposed to the product.
Smoking, eating, drinking and storing tobacco, food and beverages are not permitted at the workplace. Wear personal protective equipment. See protective measures under section 8. Avoid contact with skin and eyes.

Hygiene:

Wash hands after handling the product, especially before eating, drinking and using the toilet. Wash contaminated clothing before reuse.

7.2 Conditions for safe storage, including any incompatibilities:

Store in original packaging. Keep away from heat and sources of ignition.
Keep away from food, animal feed, animal feed and similar products. Keep away from oxidizing agents.

7.3 Specific end use(s):

This product should only be used for applications described in section 1.2.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters - occupational exposure limits EH40 (Great Britain) 2020:

| CAS-no: | Name: | Limits: | Remarks: |
|----------|-----------------------------------|--|----------|
| 107-21-1 | Ethane-1,2-diol vapor | Long-term value: 20 ppm, 52 mg/m ³ Short-term value: 40 ppm, 104 mg/m ³ | Sk |
| 107-21-1 | Ethane-1,2-diol particulate vapor | Long-term value: 10 mg/m ³ | Sk |

Sk: Can be absorbed through the skin.

DNEL/PNEC:

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8.2 Exposure controls.

Appropriate technical measures:

Ensure sufficient ventilation.

General information / Hygiene measures:

Whenever you take a break in using this product and when you have finished using it, all exposed areas of the body must be washed.

Personal protective equipment:

Only CE-marked personal protection equipment should be used.

Respiratory protection:

In case of inadequate ventilation, use respiratory protection with filter A.

Hand protection:

Wear gloves. Gloves must conform to EN 374. Consult glove manufacturer to determine appropriate type glove for given application.
Option: Nitrile/Butyl gloves. ≥ 480 min.

Eye protection:

Wear tightly safety goggles, if risk of contact. EN 166.

Body protection:

Normal work clothing.

Measures to avoid environmental exposure:

Avoid discharge to lakes, streams, sewers, etc. Notify authorities if large quantity liquid enters sewers or public waters.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

| | |
|--|---|
| Physical state: | Liquid |
| Colour: | Pink |
| Odour: | Weak |
| Melting point/freezing point: | $\leq 37^{\circ}\text{C}$ |
| Boiling point: | Not relevant/no data |
| Flammability: | Not relevant/no data |
| Lower and upper explosion limit: | Not relevant/no data |
| Flash point: | $> 100^{\circ}\text{C}$ |
| Auto-ignition temperature: | Not relevant/no data |
| Decomposition temperature: | Not relevant/no data |
| pH: | ~ 8.5 |
| Kinematic viscosity: | Not relevant/no data |
| Solubility: | Soluble in water |
| Partition coefficient n-octanol/water: | Not relevant/no data |
| Vapour pressure: | Not relevant/no data |
| Density and/or relative density: | $\sim 1.08 \text{ g/cm}^3 - 20^{\circ}\text{C}$ |
| Relative vapour density: | Not relevant/no data |
| Particle characteristics: | Not relevant/no data |

9.2 Other information:

None known.

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SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity: No dangerous reaction known under conditions of normal use and storage.

10.2 Chemical stability: Stable under normal temperature conditions and recommended use.

10.3 Possibility of hazardous reactions:
No risk of hazardous reactions during normal use and storage.

10.4 Conditions to avoid: There are no known conditions to be avoided.

10.5 Incompatible materials: Strong oxidizing agents. Strong bases. Strong acids.

10.6 Hazardous decomposition products:
None at recommended storage conditions and use.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008/GB CLP.

Acute toxicity: Harmful if swallowed.

Product:
Oral – ATE: 625 mg/kg

May cause drowsiness, dizziness, nausea, abdominal pain, muscle weakness and unconsciousness. May cause damage to liver and/or kidneys.

Ethane-1,2-diol – CAS 107-21-1:
Inhalation: LC50/dust/mist: - >2.5 mg/l/6 h.
Dermal: LD50: Mouse: >3500 mg/kg

Skin corrosion/irritation: Not classified.
Prolonged or repeated contact may cause skin irritation.

Serious eye damage/irritation: Not classified.
May cause pain and temporary irritation.

Respiratory or skin sensitization: Not classified.

Germ cell mutagenicity: Not classified.

Carcinogenicity: Not classified.

Reproductive toxicity: Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure: Not classified.

Specific target organ toxicity – repeated exposure: May cause damage to organs through prolonged or repeated exposure.

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Aspiration hazard: Not classified.

11.2 Information on other hazards:

Endocrine disrupting properties:

The product/substance has no endocrine disrupting properties.

Additional information: None know.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity: Not classified harmful to the environment.

Ethane-1,2-diol – CAS 107-21-1:
Fish – LC50 – 96 h.: 78860 mg/L - ECHA
Daphnia – EC50 – 48 h.: >100 mg/L
Algae – IC50 – 96 h.: 6500-13000 mg/L

12.2 Persistence and degradability:

Ethane-1,2-diol – CAS 107-21-1:
10 days - 90 - 100% - OECD 301A.
Easily biodegradable.

12.3 Bioaccumulative potential:

Ethane-1,2-diol – CAS 107-21-1:
LogPow: -1.36 - 23°C
Bioaccumulation is unlikely.

12.4 Mobility in soil: No data.

12.5 Result of PBT and vPvB assessment:

The product does not meet the criteria for PBT or vPvB.

12.6 Other adverse effects: None known.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Avoid release to the environment. Must be disposed of in accordance with local and national regulations. The given EWC-code is a guiding, and the code depends on how the waste is formed. User must evaluate the choice of correct code.

Option:

EWC-Code: 16 01 14* antifreeze fluids containing dangerous substances.

Contaminated packing: Empty (drip-free) and thoroughly cleaned container is sorted as plastic packaging.

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SECTION 14. TRANSPORT INFORMATION

This product is not classified as dangerous to transport.

| | ADR/RID | IMDG/IMO |
|---|--|--|
| 14.1 UN number or ID number | Not relevant | Not relevant |
| 14.2 UN proper shipping name | Not relevant | Not relevant |
| 14.3 Transport hazard class(es) | Not relevant | Not relevant |
| 14.4 Packing group | Not relevant | Not relevant |
| 14.5 Environmental hazards – MP EmS: | No Not relevant | No Not relevant |
| Other informations | LQ: Not relevant Tunnel: Not relevant | LQ: Not relevant Tunnel: Not relevant |

14.6 Special precautions for user:

Not relevant

14.7 Maritime transport in bulk according to IMO instruments:

Not relevant

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: Sources: Pressure Equipment (Amendment) Regulations 2011. Chemicals (Hazard Chemicals (Hazard Information and Packaging for Supply) Regulations 2009. Control of Substances Hazardous to Health Regulations 2002 (as amended). Merchant Shipping (Dangerous Goods and Marine Pollutants) Regulations 1997. Reporting of Injuries, Diseases and Dangerous Occurrences Regulations 2013. Regulation (EU) 2016/425 of 9 March 2016 on personal protective equipment. Hazardous Waste (England and Wales) Regulations 2005 (as amended). EC regulation 1907/2006 (REACH) Directive 2000/532/EC. Seveso directive: 96/82/EC. EC regulation no. 2020/878. CLP regulation no. 1272/2008. REACH regulation 1907/2006. GB CLP.

Additional information:

People under the age of 18 must not be exposed to this product cf. Council Directive 94/33/EC.

Pregnant women must not handle this product.

15.2 Chemical safety assessment:

Chemical safety assessments have not been performed for this product.

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SECTION 16. OTHER INFORMATION

Full text of H-phrases as mentioned in section 3:

H373 May cause damage to organs H302 Harmful if swallowed.

H361d Suspected of damaging the unborn child.

through prolonged or repeated exposure.

Additional information: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Validated by:

SRS

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