

**Product Name:** Antifreeze  
**JIR. No.:** 151427  
**Version:** GB/EN-J-02

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**Last Revised Date:** 16.05.08  
**Print Date:** 28.09.09

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Antifreeze

Application: Antifreeze concentrate for filling of vehicle radiators (for application mix with water).

Container Size: 1 l, 205 l, 25 l, 5 l

Supplier: Unipart, Baginton A, Siskin Parkway West  
Middlemarch Business Park  
Baginton, Coventry, CV3 4FZ  
United Kingdom  
Tel.: +44 (0) 18 65 38 32 70

24h Emergency Hotline Number: Tel.: +44 (0) 208 762 8322

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains: glycols, emetic and additives.

<u>Chemical name</u>	<u>CAS-number</u>	<u>EINECS No./ ELINCS No.</u>	<u>%</u>	<u>Hazard classification</u>
Ethenediol	107-21-1	203-473-3	60-100	Xn;R22
2-Ethylhexanoic acid	149-57-5	205-743-6	<5	Repr. Cat. 3;R63

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## 3. HAZARDS IDENTIFICATION

The product is classified: Xn;R22

Man: Harmful if swallowed. Lethal dose for an adult person: approx. 50-100 ml (ethenediol). May irritate eyes and skin. The product contains a component, which may penetrate the skin. Contains a substance/a group of substances which may cause harm to the unborn child.

Environment: The environmental hazard of the product is considered to be limited.

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## 4. FIRST-AID MEASURES

Inhalation: Move into fresh air and keep at rest.

Skin contact: Remove contaminated clothes and rinse skin thoroughly with water.

Eye contact: Flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

Ingestion: Immediately rinse mouth and drink plenty of water. If uncomfortable or by ingestion of large amounts (50-100 ml for an adult person): Transportation to hospital. Bring along these instructions. Induce vomiting, if person is conscious.

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## 5. FIRE-FIGHTING MEASURES

Extinguishing media: Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

Specific hazards: During fire, gases hazardous to health may be formed (CO, CO<sub>2</sub>).

Protective equipment for fire-fighters: Besides general fire fighting equipment no special equipment is required for this product.

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## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin and eyes. For personal protection, see point 8.

Environmental precautions: Avoid discharge into drains, water courses or onto the ground.

Methods for cleaning up: Dam and absorb spillage with sand, sawdust or other absorbent. For waste disposal, see point 13.

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## 7. HANDLING AND STORAGE

Safe handling advice: Observe good industrial hygiene practices. Avoid contact with skin and eyes.

Technical measures: Work practice should minimise contact.

Technical precautions: Keep the workplace clean.

Technical measures for safe storage: Keep out of reach of children.

Storage conditions: Store in closed original container at temperatures between 15°C and 25°C.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Chemical name	Exposure limits		Notes	References
	mg/m <sup>3</sup>	ppm		
Ethane-1,2-diol (vapour)	52 (8 hours)	20 (8 hours)	Sk	WEL 2005
	104 (15 min.)	40 (15 min.)		

Sk: Can be absorbed through skin

Engineering measures: Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.

Personal protection: Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment (EN 166, EN 374, EN 14387).

Respiratory equipment: In case of inadequate ventilation or risk of inhalation of vapours, use suitable respiratory equipment with combination filter (type A2/P2).

Eye protection: Risk of splashes: Wear goggles/face shield.

Skin protection: Wear apron or protective clothing in case of splashes.

Hygiene measures: Wash hands after handling.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form: liquid  
 Colour: violet  
 Odour: Mild  
 Boiling point: \*\*  
 Flash point: 115°C  
 Explosion properties: \*\*  
 Vapour pressure: \*\*  
 Density: 1,1 g/cm<sup>3</sup>  
 Solubility: soluble in water

\* = Not relevant    \*\* = not available

**10. STABILITY AND REACTIVITY**

Stability: Stable at a temperature below 30°C.

Conditions/ materials to avoid: Store separate from oxidising agents (eg. peroxides). Nitric acid , sulphuric acid.

Hazardous decomposition products: None under normal conditions.

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## 11. TOXICOLOGICAL INFORMATION

**Inhalation:** Not relevant at normal room temperatures. When heated, harmful vapours may be formed. Vapours may cause headache, fatigue, dizziness and nausea.

**Skin contact:** Prolonged contact may cause redness, irritation and dry skin. The product contains a component, which may penetrate the skin. (Ethylene glycol)

**Eye contact:** Splashes may irritate and cause redness.

**Ingestion:** May cause intoxication, headache, dizziness, stomach pains, convulsions, and in serious cases, unconsciousness, acute kidney failure, breathing and heart failure. Lethal dose for an adult person: approx. 50-100 ml (ethanediol).

**Specific effects:** May cause damage to the kidneys. Contains a substance/a group of substances with possible risk of harm to the unborn child.

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## 12. ECOLOGICAL INFORMATION

**Mobility:** The product is water soluble and may spread in water systems.

**Persistence/Degradability:** The product is expected to be biodegradable.

**Ecotoxicity:** The environmental hazard of the product is considered to be limited.  
  
Ethylene glycol  
LC50 (Fish/Oncorhynchus mykiss)/96 hours: approx. 41,000 mg/l  
EC50 (Daphnia magna)/48 hours: 51,000 mg/l

**Bioaccumulative potential:** No data available on bioaccumulation.

**Other adverse effects:** None known.

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## 13. DISPOSAL CONSIDERATIONS

National and regional procedures for disposal of waste may vary. Dispose of spillages and waste according to agreement with local authorities.

**Spillage/Used Product:** EWC-code: 160114\*

\* = hazardous waste

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## 14. TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

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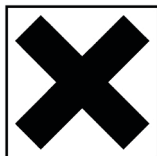
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**15. REGULATORY INFORMATION****Labelling:****Harmful**

Contains: Ethanediol

- R22 Harmful if swallowed.  
S2 Keep out of the reach of children.  
S24/25 Avoid contact with skin and eyes.  
S46 If swallowed, seek medical advice immediately and show this container or label.  
S56 Dispose of this material and its container to hazardous or special waste collection point.

**National regulations:**

- 1) The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (S.I 2002 No. 1689), with amendments.
- 2) The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677).
- 3) Workplace Exposure Limits (WEL) 2005.
- 4) The List of Wastes (England) Regulations 2005 (S.I 2005 No. 895), (Amendment S.I 2005 No. 1673).
- 5) Directives 67/548/EEC on dangerous substances (up to and inclusive of the 29th adaptation) and 1999/45/EC on dangerous preparations.

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**16. OTHER INFORMATION**

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

**Wording of the risk phrases:**

- R22 Harmful if swallowed.  
R63 Possible risk of harm to the unborn child.

The following sections contain revisions or new statements: 8

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The information on this data sheet represents our current data and is accurate to the best of our knowledge as to the proper handling of this product under normal conditions and in accordance with the application specified on the packaging and/or technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

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# ATTACHMENT TO THE MATERIAL SAFETY DATA SHEET

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**Involved Products / Part Nr:**

1	JLM209722	1 l
2	JLM209723	5 l
3	JLM209724	25 l
4	JLM209725	205 l

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