

1. Identification of the substance/preparation and company/undertaking.

NAME **Antifreeze** **SDS No** **A044**

Synonyms: Automotive Coolant, Coolant AL 39, Sentinel, Univar BS6580 Antifreeze, Glysantin G30-91.

Common uses: Engine coolant

Supplied by: **Univar Limited**

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2. Composition/information on ingredients.

Contains:

<u>Hazardous ingredient / impurity</u>	<u>% Conc.</u>	<u>Classification</u>	<u>Exposure</u>	<u>CAS</u>	<u>EINECS</u>
Ethyleneglycol Inhibitors	>90	Xn, R22		107-21-1	203-473-3

3. Hazards identification.

Classification: Xn, R22

Harmful if swallowed.

4. First Aid measures.

<u>Exposure Route</u>	<u>Symptom</u>	<u>Treatment</u>
Inhalation	Irritation of the respiratory tract.	Remove from exposure, rest and keep warm. In severe cases, or if recovery is not rapid or complete seek medical attention.
Skin Contact	Irritation	Drench the skin with plenty of water. Remove contaminated clothing and wash before reuse. If large areas of the skin is damaged or if irritation persists seek medical attention.
Eye Contact	Irritation	Irrigate thoroughly with water for at least 10 minutes. Obtain medical attention.
Ingestion	Irritation of the gastrointestinal tract.	Wash out mouth with water. Do not induce vomiting. If patient is conscious, give water to drink. If patient feels unwell seek medical attention.

Immediate Treatment / Antidote: Symptomatic treatment

5. Fire Fighting measures.

Suitable Extinguishers: Water, dry extinguishing media, alcohol resistant foam, Carbon Dioxide.

Hazardous Combustion Products: Oxides of Carbon

Special Equipment for Fire Fighting: Self-contained breathing apparatus.

6. Accidental Release measures.

Personal Precautions: Wear appropriate PPE - See section 8

SDS No. A044

Version No. 04 Revised May, 2004

Page 1 of 4

Antifreeze

Environmental Precautions: Prevent the material from entering the drains and watercourses. If the material enters these areas then inform the appropriate authorities.

Clean up Procedure: Bund or absorb material with sand, earth or other suitable absorbent material. If possible, transfer to a salvage tank, otherwise absorb residues and place in suitable labelled containers and hold for waste disposal. Wash the affected area with plenty of water.

7. Handling & Storage.

Handling

Ventilation: Good general ventilation.

Recommended procedures & equipment:

Storage

Temperature range: Ambient

Keep away from: See section 10

Suitable storage Media: Carbon steel, Stainless steel

Precautions against static discharge: Use proper grounding procedures to prevent the build up of static charges.

8. Exposure Controls/personal protection.

Exposure standards:

Component	LTEL (8h TWA)	STEL (15 mins)	Type
Ethyleneglycol	52mg/m ³	104 mg/m ³	OEL

Personal Protective Equipment:

Respiratory: Use appropriate respirator is there is insufficient ventilation.

Hand: Chemical resistant gloves

Eye: Safety glasses with side shields

Skin: Overalls and boots.

Environmental controls: Users should be aware of environmental considerations and their duties under the environmental protection act. Further advice may be found on various government websites: e.g. www.dti.gov.uk/access/index.htm and www.envirowise.gov.uk

Hygiene Measures: Always wash thoroughly after handling chemicals.

9. Physical & Chemical Properties.

Appearance	Liquid
Boiling Point/range	>160°C
Melting Point/range	<-18°C
Flash point	>120°C
Autoignition temperature	>200°C
Vapour Pressure	2mbar @ 20°C
Relative density	1.12 g/cm ³ @ 20°C
Solubility in water	Miscible in proportions
Solubility in solvent	Polar solvents

10. Stability & Reactivity.

Stability: Stable in normal condition of use.

Materials to avoid: Strong oxidising agents

Antifreeze

Hazardous decomposition products: Oxides of Carbon

11. Toxicological Information.

Toxological effects:

Ethylene glycol Mean lethal dose 1.2-1.5g/kg oral/adults.

Consciousness is affected, kidney damage. Damage to the central nervous system.

LD₅₀ >2000mg/kg **oral-rat**

12. Ecological Information.

Environmental Effects:

Mobility: Soluble in water.

Degradability: readily biodegradable, 70% degree of elimination.

Aquatic Toxicity:	Fish:	Leuciscus idus/LC ₅₀ (96 h)	: >100mg/l
	Aquatic invertebrates	Daphnia /EC ₅₀ (48h)	: >100mg/l
	Aquatic plants	Algae/ EC ₅₀ (72 h)	: >100mg/l

13. Disposal considerations.

Substance: Via an authorized waste disposal contractor to an approved waste disposal site, observing all local and national regulations.

Container: As substance. Used containers must not be cut up or punctured until completely purged of product residues.

14. Transport Information.

Not regulated for transport

15. Regulatory Information.

Supply label details: Ref. CHIP 3

Label Name Antifreeze

Symbols Xn, Harmful

Risk Phrases R22 Harmful if swallowed.

Safety Phrases S2, 24/25, 46 Keep out of reach of children, Avoid contact with skin and eyes, If swallowed seek medical advice immediately and show this container or label.

E.C. No

Additional labelling:

Use of this material may be governed by the following regulations:- (users are advised to consult these regulations for further information).

COSHH

The information contained in this data sheet does not constitute an assessment of workplace risks.

16. Other Information.

List of relevant risk phrases:

Phrase	Text
R22	Harmful if swallowed.

Information sources: Suppliers safety data sheet.

Training advice: users should be trained in good industrial hygiene practices

This material must not be used for: - -

SDS No A044

Page 3 of 4

Antifreeze

Changes to this datasheet are indicated by sidebars (|) in the left hand margin.

Further details may be available upon request from your local Univar Limited distribution site.

Legal Disclaimer:

The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specification of the product. The user must satisfy himself that the product is entirely suitable for his purpose.