



FlowCool+

FOOD SAFE GLYCOL

SAFETY DATA SHEET

PRODUCT AND COMPANY IDENTIFICATION

Product Name FlowCool+ (aka FG Antifreeze)
Manufacturer / Supplier ICS Temperature Control
Address: ICS House Stephenson Road, Calmore Industrial Estate, Totton, S'ton, SO40 3RY
Telephone No. 023 8052 7300
Facsimile No. 023 8042 8366
E-Mail sales@icstemp.com

2. COMPOSITION / INFORMATION ON PRODUCT COMPONENTS

Hazardous Components for EC

COMPONENT NAME	CAS no	CONCENTRATION	R PHASES	CLASSIFICATION
1. Propane-1,2-diol with corrosion, scale and biological inhibitors.	57-55-6	10-100%	Not Classified	

3. HAZARD IDENTIFICATION

Main Hazards: Not classified as a hazard or environmental hazard under current legislation

4. FIRST AID MEASURES

Health effects -Eyes Wash eyes promptly and rinse for 15 minutes. Seek medical attention.
Health effects - Skin Remove affected person from source of contamination. Wash skin with soap or mild detergent.
Health effects - Ingestion Seek medical attention. Rinse mouth thoroughly. DO NOT induce vomiting.
First Aid - Inhalation Remove person to fresh air at once. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Seek medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing Media Alcohol resistant foam. Carbon Dioxide (CO₂). Dry chemicals, sand & dolomite etc
Special Hazards of Product Acrid smoke/fumes. Carbonyl compounds. Acetic acid.
Protective equipment for fire fighting. Wear self contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions No special precautions necessary.
Environmental Precautions Prevent the material from entering drains or water courses without pre-treatment.
Spillage's Clean with absorbent material and dispose.

7. HANDLING AND STORAGE

Handling No special measures necessary.
Protect against fire and explosion. Take precautionary measures against static discharge.
Storage Containers should be : tightly sealed and dry. Can be made from stainless steel. Do not use zinc.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

See section 7

Engineering Control Measures Engineering methods to prevent or control exposure are preferred.
Methods include process or personnel enclosure, mechanical ventilation (dilution and local exhaust), and control of process conditions.
Respiratory Protection Respiratory protection if there is a risk of exposure to high vapour concentrations.
Hand Protection PVC gloves
Eye Protection Chemical goggles or face shield must be worn.
Body protection Wear overall or apron.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid.
Colour According to specification
Odour Almost odourless
pH at 500g/l, 20°C Range between 7.5 - 9.5
Density (g/cm³) 1.04 - 1.10 depending on inhibitors and additives.



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10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Conditions to Avoid

Heat, flames sparks.

Materials to Avoid

Powerful oxidising agents

Hazardous Decomposition Products

None provided product is correctly processed.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

LD 50/oral/rat:>20000 mg/kg

Irritants- Eyes

This material is irritating to mucous membrane/eyes.

Irritants- Skin

This material is non-irritant (Draize test) to the skin.

12. ECOLOGICAL INFORMATION

Mobility

The product will dissolve rapidly in water.

Ecotoxicity

The product is rated as : Algae EC50 (72h):>100mg/l.

Fish : LC50 (96h):.100mg/l, Oncorhynchus mykiss

Bacteria: >1000 mg/l Daphnids (acute) EC50 (48h):>100mg/l

13. DISPOSAL

Product Disposal

Dump according to local regulations use EWC-no:070104

Container Disposal

Containers should be cleaned by appropriate methods and then re-used or disposed in same manner as contents.

14. TRANSPORT INFORMATION Not classified as hazardous under transport regulations

UN Number

n/a

UN Class

n/a

UN Packaging Group

n/a

ADR/RID Substance ID No.

n/a

ADR/RID - Class

n/a

15. REGULATORY INFORMATION

Labeling Information

According to EEC directives - not subject to labelling

R Phases

n/a

S Phrases

n/a

EC Annex 1 Classification

n/a

16. OTHER INFORMATION

MSDS first issued

01-May-01

MSDS data revised

07-Jul-05

Footnote

The above information is believed to be accurate. The sole purpose of the datasheet is to provide guidance on the safehandling and use of the respective product. It does not form part of any product specification or contract. It is not practical for the information to cover every conceivable application of the product. It is the responsibility of the user to evaluate the information for their own particular purpose. In no event shall the company beheld liable for any injury, loss or damage resulting from its use.