



FlowCool

FXC2

SAFETY DATA SHEET

Low oral toxicity antifreeze formulation bases on refined vegetable extracts and non toxic corrosion and scale inhibitors.

PRODUCT AND COMPANY IDENTIFICATION

Product Name	FlowCool FXC2 (aka FXC2 Antifreeze)
Manufacturer / Supplier	ICS Temperature Control
Address:	ICS House Stephenson Road, Calmore Industrial Estate, Totton, S'ton, SO40 3RY
Telephone No.	023 8052 7300
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E-Mail	sales@icstemp.com

2. COMPOSITION / INFORMATION ON PRODUCT COMPONENTS

Low oral toxicity proprietary antifreeze formulation based on refined vegetable extracts and non-toxic corrosion and scale inhibitors. Classified as GRAS (Generally Regarded as Safe) as a food additive and not classified as harmful for handling or transport purposes. However we recommend good working practices are employed and personal protection gear is worn when handling any chemical.

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 if irritation persists.
Health effects - Skin	Remove affected person from source of contamination. Wash skin with soap or mild detergent.
Health effects - Ingestion	Unlikely to be harmful unless excessive amounts are consumed. Drink plenty of water.
First Aid - Inhalation	Remove person to fresh air at once.

5. FIRE FIGHTING MEASURES

Extinguishing Media	Use water, alcohol resistant foam. Carbon Dioxide (CO ₂) or dry chemicals.
Unsuitable extinguishing media	Not applicable.
Special Hazards of Product	Acrid smoke/fumes may form in a fire.
Protective equipment for fire fighting.	Wear self contained breathing apparatus.
Flash Point and method	>198.9°C PMCC
Explosive Limits in air	Not applicable.
Auto-ignition temperature	~400°C

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear personal protective gear.
Environmental Precautions	Prevent the material from entering drains or water courses without pre-treatment.
Spillages	Clean with absorbent material and dispose. Residues can be washed away with water.

7. HANDLING AND STORAGE

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

8. EXPOSURE CONTROL/PERSONAL PROTECTION

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.
Exposure Limit for United Kingdom	TWA 10mg/m ³



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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid.
Colour	Clear unless dyed.
Odour	Almost odourless (slightly sweet taste)
pH at 500g/l, 20°C	Range between 7.0 - 8.5
Density (g/cm ³)	1.15 - 1.28 depending on inhibitors and additives.

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions.
Conditions to Avoid	Flames
Materials to Avoid	Powerful oxidising agents
Hazardous Decomposition Products	None provided product is correctly processed. Does not decompose up to 204°C

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	LD 50/oral/rat: >30,000 mg/kg Tao
Irritants -Eyes	This material is mildly irritating to the eyes.
Irritants -Skin	This material is non-irritant (Draize test) to the skin.

12. ECOLOGICAL INFORMATION

Mobility	The product will dissolve rapidly in water.
Persistence and biodegradability	Readily biodegradable (OECD 301)
Bioaccumulative potential	BCF : 3.162 (calculated).

13. DISPOSAL

Product Disposal	EWC Code - N/A
Container Disposal	Containers should be cleaned by appropriate methods and then re-used or disposed in same manner as contents.

14. TRANSPORT INFORMATION

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

General	This product is not classified as dangerous according to Directive 1999/45/EC
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-Feb-04
MSDS data revised	09-Jul-08
Footnotes	This material safety data sheet was prepared in accordance with Directive 2001/58/EC

The above information is believed to be accurate. The sole purpose of the datasheet is to provide guidance on the safe handling 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.