

# **PRODUCT SAFETY DATA SHEET**

## **1 IDENTIFICATION OF PREPARATION AND THE SUPPLIER**

Trade Name: Antifreeze  
Supplier: Chemical Solutions  
42 Kennel Lane  
Fetcham  
Surrey KT22 9PJ  
0870 2408893

## **2 INFORMATION ON INGREDIENTS**

Product Description: Water glycol based antifreeze

Hazardous Ingredients:

Material or Component	CAS No:	%	Symbol	Risk Phrase
Ethan 1,2 Diol	107-21-1	50-100	Xn	22

## **3 HAZARDS IDENTIFICATION**

Harmful if swallowed Xn

## **4 FIRST AID MEASURES**

Eyes: Flush out eyes with plenty of water for at least 10 minutes holding the eye open and if irritation persists obtain medical attention.

Skin: Wash off with plenty of soap and water preferably under shower. Remove clothing as washing proceeds. Obtain medical attention if blistering or redness occur.

Inhalation: Remove to fresh air, keep warm and at rest. If breathing difficulties occur, given oxygen. If breathing stops or shows signs of failing, give artificial respiration. Do not use mouth-to-mouth ventilation. Obtain medical attention urgently.

Ingestion: Wash out mouth and obtain immediate medical attention informing doctor that a product containing ethylene glycol has been ingested and specific treatment may be required. Have victim drink 240-300ml of water to dilute stomach contents. Do not induce vomiting.

## **5 FIRE FIGHTING MEASURES**

Extinguishing Media: Do not use water jet. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray.

Protective Equipment: Full turn out gear and breathing apparatus.

Further Information: Combustion will generate oxides of carbon.

## **6 ACCIDENTAL RELEASE MEASURES**

Personal Precautions: Ventilate area to dispel airborne concentrations. Wear suitable protective clothing.

Environmental Precautions: Spillages: contain spillages in absorbent material, sand or earth, transfer to suitable containers. Sweep up residue and dispose in accordance with Local Authority regulations. Advise authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

## **7 HANDLING AND STORAGE**

Handling: Do not eat, drink or smoke whilst using this product. Never transfer to an unlabelled container. Avoid contact with eyes, skin and clothing. Emergency shower and eye wash facilities should be readily available. Wear eye protection if splashing possible. Wear rubber gloves for continuous hand use.

Storage: Store in hazard labelled container in a secure place at cool temperatures, under cover and well ventilated. Storage should be out of direct sunlight and away from sources of heat and ignition, away from incompatible materials. Recommended maximum storage: indefinite.

## **8 PERSONAL PROTECTION/EXPOSURE CONTROLS**

Take measures to prevent eye contact and ingestion. Wear pvc or rubber boots, apron, pvc or rubber gloves, chemical goggles, and use respiratory protection.

## **9 PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Green liquid
Odour	odourless
pH Value	NA
Boiling Range	197
Melting Point	-13
Flash Point	116
Auto ignition temp	413
Vapor pressure @ 20oC	0.091 mmHg
Relative Density	1.1+/- 0.04
Solubility	Completely soluble

## **10 STABILITY AND REACTIVITY**

Conditions to Avoid	High temperatures. Exposure to direct sunlight
Materials to Avoid	Strong oxidising agents. Sulphuric acid. Oleum. Chlorosulphic acid
Hazardous Decomposition	Combustion will generate oxides of carbon

## **11 TOXICOLOGICAL INFORMATION**

Eye Contact:	Single application to the rabbit eye produced conjunctival irritation and transient corneal damage (stippling/minor epithelial damage)
Skin Contact:	A single 4h semi-occlusive application to intact rabbit skin produced minimal signs of irritation (mean sources of erythema or oedema less than 2)
Acute toxicity	The product contains components that are harmful by the following route of exposure: ingestion. Oral LD50 (rat) 6000mg/kg. Estimated fatal dose for adults is 100ml.

## **12 ECOLOGICAL INFORMATION**

Mobility:	Involatile. Soluble in water. Mobile liquid
Ecotoxicity:	Tests on the following species gave a 96h LC50 of greater than 51000mg/ltr:fathead minnow Tests on the following species gave a 96h LC50 of 46,300mg/ltr: daphnia

## **13 DISPOSAL CONSIDERATIONS**

Product:	Dispose of in accordance with waste disposal regulations
Packages	Dispose of in accordance with waste disposal regulations

## **14 TRANSPORT INFORMATION**

Not classified as hazardous for transport

## **15 REGULATORY INFORMATION**

EEC	Harmful if swallowed Xn
Risk Phrases	R22: Harmful if swallowed
Safety Phrases	S2 – keep out of reach of children S26: In case of contact with eyes, rinse immediately with plenty of water and seek immediate medical advice. S37/39: Wear suitable gloves and eye/face protection S46: If swallowed wash out mouth and seek medical attention immediately, showing the container

## **16 OTHER INFORMATION**

this data sheet was prepared in accordance with Directive 91/155/EEC  
Conforms to CHIP 3 (2002)  
Revision Date: February 2004