

Product Name Antifreeze (Red)**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name:	ANTIFREEZE (Red)
Recommended use:	Engine and Refrigerator Coolant
Company Details:	Envirochem International (NZ) Ltd
Address:	41 Angle Street, Onehunga Auckland. New Zealand
Telephone Number:	+64 9 262 0800
Emergency Telephone Number:	National Poison Information Centre 0800 764 766
Date of Preparation:	01/06/2017

2. HAZARD IDENTIFICATION

HSNO Hazard Classification: 6.1E (oral),6.4A, 6.9A. 9.3C

Hazard Statement:

Harmful if swallowed
 Causes serious eye irritation
 Causes damage to organs through prolonged or repeated exposure
 Harmful to terrestrial vertebrate

Prevention Statements:

- Keep out of reach of children
- Read label before use
- Wash thoroughly after handling
- Do not eat, drink or smoke when using product
- Wear protective gloves
- Wear eye/face protection
- Avoid release to the environment

Response Statement:

- If medical advice is needed, have product container or label at hand
- Get medical advice/attention if you feel unwell
- If SWALLOWED: Call a Poison Center or doctor/physician if you feel unwell.
- Rinse mouth
- Call a Poison Center or doctor/physician if you feel unwell.
- If in eyes, rinse cautiously with water for several minutes, remove contact lenses, if present and easy to do so, continue rinsing
- If eye irritation persists: Get medical advice/attention

Disposal:

- Dispose of contents and container to appropriate waste site or reclaimer in accordance with local and national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS #	Concentration %
Mono Ethylene Glycol	107-21-1	<80
Denatonium Benzoate	3734-33-6	<10
Tolytriazole	29385-43-1	<7.5
Sodium Hydroxide	3734-33-6	0.1-2.0
Water	7732-18-5	Balance

4. FIRST AID MEASURES

Ingestion:

Immediately rinse mouth with water. If swallowed do not induce vomiting unless patient has induced high dosage. Give water to drink. Never give anything by mouth to an unconscious person. Seek immediate medical aid immediately.

Eye Contact:

Immediately flush eyes with large amounts of water for at least 15 minutes while holding eyelids open. Transport to the nearest medical facility for additional treatment. Do not rub eyes or keep eyes closed

Skin Contact:

Wash with plenty of soap and flowing water for at least 15 minutes while removing contaminated clothing. Wash clothing before reuse.

Inhalation:

If ill- effects occur, move victim to fresh air. If ill-effects persist, consult a doctor.

5. FIRE FIGHTING MEASURE

Extinguishing Media:

Use dry chemical powder, foam, polymer foam, and water spray or fog type extinguishers. Water may be ineffective on fire. However, water spray may be used to extinguish fires and to absorb heat. Keep containers cool and protect exposed material. If a leak or spill has not ignited, water spray may be used to flush spills a way from exposures.

Hazards from combustion products:

Not combustible. However, following evaporation of aqueous component, residual material can burn if ignited. While burning, it will emit toxic fumes including carbon monoxide and carbon dioxide.

Precautions for fire fighters and special protective equipment:

Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion as well as structural fire fighter's uniform.

Hazchem code:

None Assigned

Flash Point

127 Deg

6. ACCIDENTAL RELEASE MEASURES

Emergency Precautions:

Personnel involved in the clean up should wear full protective clothing. Evacuate all unnecessary personnel. Increase ventilation. Avoid walking through spilled product as it may be slippery. Stop leak if safe to do so. Do not let product reach drain or waterways; advise the Environmental Protection Authority or your local Waste Management. Use clean, non-sparking tools and equipment.

Methods and Materials for Containment and Clean Up:

Soak up spilled product using absorbent, non-combustible material such as sand or soil. Avoid using sawdust or cellulose. When saturated, collect material into suitable, labelled, dry, sealable containers and hold for safe

disposal. Once pick-up is complete, flush spill site with plenty of water to eliminate any residue. Hold contaminated water for treatment/disposal.

7. HANDLING AND STORAGE

Handling:

Wash thoroughly after handling. Avoid contact with eyes. Keep container tightly closed. Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Do not dispose of material to sewers or waterways.

Storage:

Store in a tightly closed container. Keep from contact with oxidizing agents. Store in a cool dry well-ventilated area away from any incompatible substance (if applicable). Keep container closed at all times and check regularly for leaks

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards:

The Occupational Safety and Health Service, NZ Department of Labour have set no Tolerable Exposure Limit (TEL) Workplace Exposure Standards (WES) for this substance.

Biological limit values:

None established

Engineering Controls:

The use of local exhaust ventilation is recommended to control process emissions near the source. Provide mechanical ventilation of confined spaces.

PERSONAL PROTECTIVE EQUIPMENT:

Respiratory Protection:

Where concentration in air may exceed the limits described in the National Exposure Standards, it is recommended to use a half face filter mask to protect from overexposure by inhalation. A type "A" filter material is considered suitable for this product.

Eye Protection:

Always use safety glasses or a face shield when handling this product.

Skin/Body Protection:

Always wear long sleeves and long trousers or coveralls, enclosed footwear or safety boots and chemical resistant gloves when manufacturing this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Opaque Red
Physical State	Liquid
Odour:	Odourless
Specific Gravity	1.123
Boiling point:	>250 deg
Freezing Point	<= 50 deg
Solubility:	Soluble in water
Flashpoint:	127 deg
Evaporation Rate:	Not Available
pH:	8

10. STABILITY AND REACTIVITY

Chemical Stability

Stable at room temperature and pressure

Conditions to avoid:

N/A

Incompatible Materials:

Incompatible with oxidizing agents, acidic agents, and sources of ignition

Hazardous decomposition:

Aldehydes (Elevated Temperatures).

11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with the safety data sheet.

Symptoms or effects that MAY arise if the product is mishandled and the overexposure occurs are:

Acute Effects

Ingestion:

Small amounts of liquid aspirated into lungs during ingestion, or from vomiting. Ingestion of large amounts of this product will result in headaches, nausea, dizziness and tracheal burning.

Species: Cat

Endpoint Results: LD50

Value: 280mg/kg bw

Eye Contact:

This product is irritating and pain followed by swelling to the conjunctiva.

Species: Rabbit,

Results: Moderately irritating

Skin Contact:

This product is irritating to skin.

Inhalation:

Irritating to respiratory tract. Exposure to high concentrations over an extended period of time may result in muscle weakness, tingling in hands and feet, blurred vision, headaches, nausea, loss of appetite, hallucinations and possible loss of consciousness.

12. ECOLOGICAL INFORMATION

Species: Cat; type of exposure

Endpoint: LD50; Value: 1670 mg/kg bw

13. DISPOSAL CONSIDERATIONS

Disposal Methods:

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities.

14. TRANSPORT INFORMATION

Road and Rail Transport:

Not Classified as Dangerous Goods by the criteria of New Zealand Dangerous Goods Code for transport by road and rail

Marine Transport:

Not Classified as Dangerous Goods by the criteria of international Maritime Dangerous Goods Code for transport by sea.

Air Transport:

Not Classified as Dangerous Goods by the criteria of international Air Association Dangerous Goods

Regulations for transport by air

15. REGULATORY INFORMATION

HSNO Approval No: HSR0002684
Group Standard Water Treatment Chemicals Group Standard 2006
HSNO Classification: 6.1E, 6.4A, 6.9A, 9.3C

16. OTHER INFORMATION

New Zealand National Poison Information Centre: 0800 764 766
New Zealand Emergency Services: 111
Envirochem International (NZ) Ltd : +64 9 262 0800

Every endeavour has been made to ensure that the information contained in this publication is reliable and offered in good faith. It is meant to describe the safety requirements of our products and should not be construed as guaranteeing specific properties. Customers are encouraged to conduct their own tests as end user suitability of the product for particular uses is beyond our control. The information is not intended as an inducement to bargain and no warranty expressed or implied is made as to its accuracy, reliability or completeness. Envirochem International (NZ) Limited accepts no liability for loss, injury or damage arising from reliance upon the information contained in this data sheet except in conjunction with the proper use of the product to which it refers. Due care should be taken that the use and disposal of this product is in compliance with appropriate Local Councils regulations.