

MATERIAL SAFETY DATA SHEET

PRODUCT:	Antifreeze
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1. Product and Company Identification

PRODUCT NAME:	Antifreeze	
SYNONYM:		
CHEMICAL NAME:		
CAS NO:		
UN NO:		
REF NO:		
SUPPLIER/MANUFACTURER:	Name:	Cape Heat Exchange (Pty) Ltd.
	Address:	34 Textile Street Paarl, 7646
	Tel No:	021-870 2222
	Telefax:	021-872 3078
EMERGENCY TELEPHONE NO:	0798740761	

2. Composition/Information on Ingredients

CHEMICAL NATURE:	A typical Antifreeze with added corrosion inhibitors and antioxidants. Suitable for all types of vehicles. Glycols, Water Nitrates, Nitrates, Borax.
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3. Hazards Identification

ADVERSE HUMAN HEALTH EFFECTS:	This product is not hazardous according to EEC criteria.
PHYSICAL AND CHEMICAL HAZARDS:	
- Fire or explosion:	
CLASSIFICATION/SPECIFIC HAZARDS:	

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4. First Aid Measures (To be done by first aider)

INHALATION:	Can cause adverse effects from inhalation, if a reaction does occur, remove patient to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by a qualified person. Call a physician or transport to medical facility.
SKIN CONTACT:	Avoid prolonged contact with product. If contact occurs, wash off in flowing water or shower.
EYE CONTACT:	Flush Eyes with excess water for a min of 20 minutes and seek medical advice.
INGESTION:	Never give fluids or induce vomiting if patient is unconscious or is having convulsions. Induce vomiting if large amounts are ingested. Consult medical advice.

5. Notes to Physician (NB: This treatment is only to be given by a medical doctor or under his supervision)

INGESTION:	No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.
CARCINOGENICITY:	

6. Fire Fighting Measures

EXTINGUISHING MEDIA:	Water, Fog, Carbon Dioxide, Alcohol resistant foam, Dry chemicals.
- Suitable:	
- Not to be used:	None known.
SPECIFIC HAZARDS:	Protection of firefighters: Wear positive pressure self-contained breathing apparatus and protective fire fighting clothing.

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7. Accidental Release Measures

PERSONAL PRECAUTIONS:	Wear adequate protective equipment.
ENVIRONMENTAL PRECAUTIONS:	Prevent contamination of surface and ground water.
METHODS FOR CLEANING UP:	Soak up small spills with absorbent material, remove with rubber shovel and collect for disposal. For large spills dike and pump into appropriate containers.

8. Handling and Storage

HANDLING:	Contact with skin should be avoided.
Technical Measures:	
STORAGE:	Do not store in open sunshine. Keep containers tightly closed.
Technical measures:	
Recommended storage conditions:	
Incompatible products:	
Packaging:	
Packaging materials:	
- Recommended:	
- Not suitable:	

9. Exposure Controls/Personal Protection

Engineering Measures:	
PERSONAL PROTECTIVE EQUIPMENT:	
- Hand Protection:	
- Eye Protection:	
- Skin and body Protection:	

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10. Physical and Chemical Properties

APPEARANCE:	Clear Liquid
- Physical state:	Liquid
- Colour:	Blue
ODOUR:	Typical
- pH:	6-9
SPECIFIC TEMPERATURES:	
- Melting:	
- Boiling:	±130 Degrees
FLAMMABILITY CHARACTERISTICS:	
- Flash point:	None
- Ignition temperature:	
- Explosion limits:	
OXIDIZING PROPERTIES:	
DENSITY:	
BULK DENSITY:	
VAPOUR PRESSURE:	
SOLUBILITY:	
- In water:	Miscible in all proportions
- In organic solvents:	



HEAT TRANSFER PRODUCTS

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11. Stability and Reactivity

STABILITY:	Stable under normal storage conditions.
HAZARDOUS REACTIONS:	
- Materials to avoid:	Avoid oxidizing agents.
- Conditions to avoid:	
- Hazardous decomposition products:	

12. Toxicological Information

ACUTE TOXICITY:	
LOCAL EFFECTS:	Single dose oral toxicity is very low. Small amounts swallowed, incidental to normal handling operations are not likely to cause injury. Swallowing larger amounts may cause injury. Skin absorption is low. Prolonged skin contact with very large amounts may cause drowsiness. May cause slight irritation to the eyes. Corneal injury is unlikely. Birth defects are unlikely. Even exposures having an adverse effect in the mother should have no effect on the fetus. Results of in vitro (test tube) mutagenicity tests have been negative.

13. Ecological Information

BEHAVIOUR IN THE ENVIRONMENT:	
PERSISTENCE/DEGRADABILITY:	Biodegradation after 30 days is greater than 85%. Degradation is expected in the atmospheric environment within minutes to hours.
EXPECTED BEHAVIOUR OF THE PRODUCT:	
POSSIBLE IMPACT/EFFECTS:	
ECOTOXICITY:	

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14. Disposal Considerations

STABILITY:	
WASTE FROM RESIDUES:	
- Disposal:	
CONTAMINATED PACKAGING:	
Decontamination/cleaning:	
Disposal:	

15. Transport Information

LAND:	This product is not classified as dangerous for transport
RAIL/ROAD (RID/ADR):	This product is not classified as dangerous for transport
SEA (IMO/IMDG):	This product is not classified as dangerous for transport
AIR (ICAO-IATA):	This product is not classified as dangerous for transport

16. Regulatory Information

EEC REGULATIONS:	
HAZARD SYMBOL:	
R PHRASES:	
S PHRASES:	

17. Other Information

USES:	
OTHER:	

The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended.

The classification was effectuated according to information derived from technical literature and supplier companies.

Information included in this document is based on our present state of knowledge; however, they do not assure the product properties and do not assume any legal condition.

The material safety data sheet completes the product information without replacing it.