



Shield Anti-Freeze

1 - IDENTIFICATION OF THE PRODUCT AND COMPANY

PRODUCT NAME	Anti-Freeze
PRODUCT CODE	SH197, 203 & 204
APPLICATION	Vehicle Radiator Coolant
SUPPLIER AND MANUFACTURER	Shield Chemicals (Pty) Ltd No. 9 London Road, Apex, Benoni Gauteng South Africa
CONTACT NUMBERS	T) +27-11-421-7111 F) +27-11-421-0475
O/H 07h30 – 17h00 Monday – Friday	
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CONTACT PERSON	Mr. Riaan Engelbrecht

2 - HAZARDS IDENTIFICATION

Harmful or fatal if swallowed.

3 - COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS #	Amount	UN No.
Ethylene Glycol	107-2-11	20 - 30%	

4 - FIRST AID MEASURES

INHALATION	Remove victim from the source of exposure and seek medical attention immediately.
INGESTION	NEVER INDUCE VOMITTING. If irritation persists, seek medical attention.
SKIN CONTACT	Wash thoroughly with water. If irritation persists, seek medical attention.
EYE CONTACT	Make sure to remove any contact lenses from the eyes before rinsing. Rinse thoroughly with plenty of water for 15 minutes If irritation persists, seek medical attention.

5 - FIRE-FIGHTING MEASURES

CLASSIFICATION	Non flammable, but may burn in the case of fire
EXTINGUISHING MEDIA	Use Foam, Carbon dioxide (CO ₂) or dry powder extinguishers.
EXPOSURE HAZARDS	Combustion may evolve hazardous gasses.
PROTECTIVE EQUIPMENT	Fire fighters should wear self-contained breathing apparatus and suitable personal protective equipment.

6 - ACCIDENTAL RELEASE MEASURES

Method of disposal	Absorb onto dry sand if possible, and dispose of safely as commercial waste. Rinse residues thoroughly with water.
Personal Protection	Wear gloves and eye/face protection.

7 - HANDLING AND STORAGE

HANDLING	Do not inhale vapour and do not ingest Do not add any other substances to this product.
STORAGE	Store upright in original closed containers. Keep away from heat or sources of ignition. Keep away from oxidizing or flammable materials.

8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION	When handling this product wear suitable eye/face protection.
HAND PROTECTION	For prolonged use, make use of gloves that are resistant to detergents.
SKIN PROTECTION	Protective overalls may be worn
INHALATION	Personal protective equipment should only be considered where

	ventilation is very poor, or in the case of an accident.
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9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid
COLOUR	Clear Yellow
ODOUR	As per standard
RELATIVE DENSITY @ 25°C	1.10 (typical)
PH	7.20 (typical)

10 - STABILITY AND REACTIVITY

STABILITY	Keep away from heat
MATERIALS TO AVOID	Prevent contamination of the solution with foreign materials.
HAZARDOUS DECOMPOSITION PRODUCTS	There are no hazardous decomposition products.

11 - TOXICOLOGICAL INFORMATION

INHALATION	May cause dizziness and drowsiness. Product not volatile at ambient temperatures. Vapours, mist or fumes in high concentrations, as generated from spraying or heating in an enclosed area, may cause irritation
INGESTION	May be toxic by ingestion. Ingestion of this product and subsequent vomiting can result in aspiration into the lungs, causing chemical pneumonia and lung damage. Kidney and/or liver damage have been reported to occur following significant overexposures.
SKIN CONTACT	Contact may cause slight irritation; prolonged contact may cause more severe irritation.
EYE CONTACT	May cause irritation

12 - ECOLOGICAL INFORMATION

ECOTOXICITY	This product is expected to have a moderate ($\geq 30\%$) rate of biodegradation, and a low potential to bioaccumulate.
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13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHODS	Do not pour down waste water drains. Absorb onto dry sand or other absorber, and dispose of safely as commercial waste. Rinse contaminated area with plenty of water
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14 - TRANSPORT INFORMATION

UN NUMBER	3082
PROPER SHIPPING NAME	Environmentally Hazardous Substance, Liquid, N.O.S.
TRANSPORT HAZARD CLASS	9
PACKING GROUP	III
ENVIRONMENTAL HAZARDS	This is an environmentally hazardous substance
SPECIAL PRECAUTIONS FOR USER	None Additional

15 - REGULATORY INFORMATION

Hazard Symbols	T Toxic by inhalation or if swallowed.
Risk Phases	R22 Harmful if swallowed R25 Toxic if swallowed. R36 Irritating to the eyes R43 May cause sensitization by skin contact R52/53 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
Safety Phrases	S2 Keep out of reach of children S13 Keep away from food, drink and animal feed. S25 Avoid contact with the eyes S26 In case of contact with eyes, rinse with water and seek medical advice. S43 In case of fire, use Foam, Carbon dioxide (CO ₂) or dry powder extinguishers. Never use water jets. S45 In case of accident, or if you feel unwell, seek medical attention immediately and show this document.

	S61 Avoid release to the environment S62 If swallowed, do not induce vomiting; seek medical advice and show container or label.
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16 - OTHER INFORMATION

This materials safety data sheet has been compiled according to SABS 1104-1 and SABS 0265, and provides the best advice under our current state of knowledge. The user is ultimately responsible for ensuring that the requirements of the relevant legislation are complied with.

DISCLAIMER: This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.