

SAFETY DATA SHEET

Inhibited Antifreeze 100%

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier
- Product name Inhibited Antifreeze 100%.
- Synonyms MONOPROPYLENE GLYCOL
PROPANE-1,2-DIOL
1,2-PROPANDIOL
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- PC37: Water treatment chemicals. Domestic central heating water treatment.
- Not suitable for use in PRIMATIC single feed cylinders.
- 1.3 Details of the supplier of the safety data sheet
- Scalemaster Limited
Emerald Way
Stone Business Park
STONE
Staffordshire ST15 0SR
Tel: 01785 811636
Email: info@scalemaster.co.uk
Web:www.scalemaster.co.uk
- 1.4 Emergency telephone number
- Tel: 01785 811636
Only available during office hours.

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to regulation (EC) No 1272/2008 (CLP) This product has no classification under CLP.
- Additional information
- 2.2 Label elements
- According to regulation (EC) No 1272/2008 (CLP) & (EU) No 2015/830 This product has no label elements.
- Hazard pictograms
- Signal words
- Hazard statements
- Precautionary statements
- 2.3 Other hazards
- This product is not identified as a PBT/vPvB substance.

SECTION 3: Composition/information on ingredients

- 3.1 Substances Chemical Identity: PROPANE-1,2-DIOL
- 3.2 Mixtures

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General notes
- Following inhalation Not applicable under normal conditions of use. Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor if there are symptoms.
- Following skin contact Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin. Seek medical attention if irritation persists.
- Following eye contact Bathe the eye with running water for 15 minutes. Consult a doctor.
- Following ingestion Do not induce vomiting. Wash out mouth with water. If conscious, give half a litre of water to drink immediately. Consult a doctor if you feel unwell.
- 4.2 Most important symptoms and effects, both acute and delayed
- Following inhalation May cause irritation of the mucous membranes and respiratory system.
- Following skin contact There may be mild irritation at the site of contact.
- Following eye contact There may be irritation and redness.
- Following ingestion May cause mild irritation of the gastrointestinal tract if large quantities are ingested. There may be vomiting and diarrhoea.
- Delayed/immediate effects Immediate effects can be expected after short-term exposure.
- 4.3 Identification of any immediate medical attention and special treatment needed Not applicable.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media Water spray. Carbon dioxide. Alcohol or polymer foam. Dry chemical powder. Use water spray to cool containers.
- 5.2 Special hazards arising from the substance or mixture In combustion emits toxic fumes of carbon dioxide / carbon monoxide.
- 5.3 Advice for firefighters Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Refer to section 8 of the SDS for personal protection details.
- 6.2 Environmental precautions Do not discharge into drains or rivers. Contain the spillage using bunding.

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| 6.3 | Methods and material for containment and cleaning up | Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water. |
| 6.4 | Reference to other sections | Refer to section 8 of SDS. Refer to section 13 of SDS. |

SECTION 7: Handling and storage

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| 7.1 | Precautions for safe handling | Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air. Avoid direct contact with the substance. |
| 7.2 | Conditions for safe storage, including any incompatibilities | Store in a cool, well ventilated area. Keep away from sources of ignition. Keep container tightly closed. Avoid incompatible materials and conditions - see section 10 of SDS. |
| | Suitable packaging | Steel drums. Aluminium containers. Plastic. |
| 7.3 | Specific end use(s) | No data available. |

SECTION 8: Exposure controls/personal protection

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| 8.1 | Control parameters | |
| | Workplace exposure limits | No data available. |
| | DNEL/PNEC | No data available |
| 8.2 | Exposure controls | |
| | Appropriate engineering controls | Ensure there is sufficient ventilation of the area. Ensure all engineering measures mentioned in section 7 of SDS are in place. |
| | Individual protection measures such as personal protective equipment | |
| | Respiratory protection | Use breathing apparatus where a mist or aerosol may be formed. Gas/vapour filter, type A: organic vapours (EN141). |
| | Hand protection | Gloves (solvent-resistant). |
| | Eye protection | Safety glasses. Ensure eye bath is to hand. |
| | Skin protection | Protective clothing. |
| | Environmental | No special requirement. |

SECTION 9: Physical and chemical properties

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| 9.1 | Information on basic physical and chemical properties | |
| | State | Liquid. |
| | Colour | Colourless. |
| | Odour | Odourless. |
| | pH | 7 |
| | Relative density | 1.03 |
| | Solubility in water | Soluble. |
| | Viscosity | Non-viscous. |
| | Flash point °C | 99 |
| 9.2 | Other information | No data available. |

SECTION 10: Stability and reactivity

- 10.1 Reactivity Stable under recommended transport or storage conditions.
- 10.2 Chemical stability Stable under normal conditions.
- 10.3 Possibility of hazardous reactions Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
- 10.4 Conditions to avoid Heat. Hot surfaces. Sources of ignition.
- 10.5 Incompatible materials Strong acids. Strong bases. Strong oxidising agents.
- 10.6 Hazardous decomposition products In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Hazardous ingredients

PROPANE-1,2-DIOL

DERMAL	RBT	LD50	>10,000	mg/kg
ORAL	RAT	LD50	20,000	mg/kg

Toxicity values

No data available.

Symptoms/routes of exposure

Ingestion (swallowing)

May cause mild irritation of the gastrointestinal tract if large quantities are ingested. There may be vomiting and diarrhoea.

Inhalation

May cause irritation of the mucous membranes and respiratory system.

Skin contact

There may be mild irritation at the site of contact.

Eye contact

There may be irritation and redness.

Delayed/immediate effects

Immediate effects can be expected after short-term exposure.

SECTION 12: Ecological information

12.1 Toxicity

Ecotoxicity values

Species	Test	Value	Units
Ceriodaphnia dubia	48H EC50	18430	mg/l
GREEN ALGA (Selenastrum capricornutum)	48H EC50	19000	mg/l
MYSID SHRIMP (Mysidopsis bahia)	96H LC50	18800	mg/l
RAINBOW TROUT (Oncorhynchus mykiss)	96H LC50	40613	mg/l

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- 12.2 Persistence and degradability Readily biodegradable.
- 12.3 Bioaccumulative potential No bioaccumulation potential.
- 12.4 Mobility in soil Non-volatile. Soluble in water. Readily absorbed into soil.
- 12.5 Results of PBT and vPvB assessment
- Persistence (P-): Persistence result: not P-
- Bioaccumulation (B-): Bioconcentration factor (BCF): <2000
Bioaccumulation result: not B-
- Toxicity (T-): mg/l
NOEC for marine or freshwater organisms: >0.1
Toxicity result: not T-
- PBT identification: This product is not identified as a PBT/vPvB substance.
- 12.6 Other adverse effects Negligible ecotoxicity.

SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- Disposal operations Transfer to a suitable container and arrange for collection by specialised disposal company.
- Recovery operations Not applicable.
- Disposal of packaging Dispose of as normal industrial waste.
- NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

SECTION 14: Transport information

- Transport class This product does not require a classification for transport.

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- 15.2 Chemical safety assessment

SECTION 16: Other information

Indication of changes

* Indicates text in the SDS which has changed since the last revision.

Abbreviations and acronyms

ACLG	Approved Classification and Labelling Guide
CAS No	Chemical Abstracts Service Number
CLP	Classification, Labelling and Packaging Regulations (EC) 1272/2008
DNEC	Derived No Effect Level
EC No	EINECS number
EC50	Concentration that causes 50% of maximum effect in stated time period
ErC50	ErC50 means EC50 in terms of its reduction in growth rate
EINECS	European Inventory of Existing Commercial Substances
LD50 (LC50)	Lethal dose (or concentration) at which 50% of the population will be killed in stated time period
LTEL	Long Term Exposure Limit
PBT	Persistent, Bioaccumulative and Toxic Substances
PNEC	Predicted No Effect Level
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulations
SDS	Safety Data Sheet
STEL	Short Term Exposure Limit
SVHC	Substances of Very High Concern
TWA	Time Weighted Average
UN	United Nations
vPvB	Very Persistent and Very Bioaccumulative
WEL	Workplace Exposure Limits

Literature references and sources of data

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

Full text of hazard statements listed in Section 3.

Not applicable.

This information is based on the present state of our knowledge.

Legal disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.