

SAFETY DATA SHEET

according to Regulation (EU) 2020/878

STAR ANTIFREEZE BLUE/RED

Product code: 00930002

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Revision 2

Revision date 2023-05-25

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

1.1. Product identifier

Product name	STAR ANTIFREEZE
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1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC4] Anti-Freeze and de-icing products;
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1.3. Details of the supplier of the safety data sheet

Company	Star House Turbine Road Turbine Business Park Birkenhead CH41 9BA United Kingdom + 44 (0) 1244 504 500 enquiries@star-international.co.uk
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1.4. Emergency telephone number


Emergency telephone number	+ 44 (0) 1244 504 500
Company	Star International Mon - Fri 8.00am - 4.30pm NPIS NHS 111 (England), NHS 24 (Scotland) or NHS Direct (Wales) Email: sds.npis@nhs.net

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC 1272/2008	Acute Tox. 4: H302; STOT RE 2: H373;
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2.2. Label elements

Hazard pictograms	
Signal Word	Warning
Hazard Statement	Acute Tox. 4: H302 - Harmful if swallowed. STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure .
Precautionary Statement: Prevention	P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling.

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2.2. Label elements

Precautionary Statement: Response	P270 - Do no eat, drink or smoke when using this product.
	P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/ /if you feel unwell.
	P314 - Get medical advice/attention if you feel unwell.
	P330 - Rinse mouth.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Ethylene glycol (Ethane-1,2-diol particulate)		107-21-1	203-473-3			Acute Tox. 4: H302; STOT RE 2: H373; Eye Irrit. 2: H319;
Sodium Benzoate						
Sodium nitrite	007-010-00-4	7632-00-0	231-555-9			Ox. Sol. 3: H272; Acute Tox. 3: H301; Aquatic Acute 1: H400;

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Inhalation of vapour may cause shortness of breath. Move the exposed person to fresh air. Seek medical attention.
Eye contact	May cause irritation to eyes. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.
Skin contact	Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention.
Ingestion	Ingestion is irritating to the respiratory tract and may cause damage to the central nervous system. If swallowed, seek medical advice immediately and show this container or label. DO NOT INDUCE VOMITING.

SECTION 5: Firefighting measures

5.1. Extinguishing media

	Use as appropriate: Carbon dioxide (CO2), Dry chemical, Foam.
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5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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5.3. Advice for firefighters

	Wear: Self-contained breathing apparatus. Wear chemical protective clothing.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment.
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6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

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7.1. Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

Ethylene glycol (Ethane-1,2-diol particulate)	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 10
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
	WEL 8-hr limit mg/m3 total - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 total - respirable dust:
Ethylene glycol (Ethane-1,2-diol vapour)	WEL 8-hr limit ppm: 20	WEL 8-hr limit mg/m3: 52
	WEL 15 min limit ppm: 40	WEL 15 min limit mg/m3: 104
	WEL 8-hr limit mg/m3 total - inhalable dust:	WEL 15 min limit mg/m3 total - inhalable dust:
	WEL 8-hr limit mg/m3 total - respirable dust:	WEL 15 min limit mg/m3 total - respirable dust:

8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Wear chemical protective clothing.
Eye / face protection	Approved safety goggles.
Skin protection - Handprotection	Chemical resistant gloves (PVC).
Respiratory protection	Self-contained breathing apparatus must be used in handling.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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9.1. Information on basic physical and chemical properties

Appearance	= Liquid
Colour	= Blue or red
pH	= 8.5
Melting point	= -13 °C
Freezing Point	Not applicable.
Initial boiling point	= 197 °C
Flash point	= 111
Evaporation rate	Not relevant
Flammability (solid, gas)	No data available
Vapour pressure	Not determined
Density / Relative Density	Not relevant
Fat Solubility	No data available
Partition coefficient	No data available
Autoignition temperature	= 410
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	Not relevant
Solubility	No data available

9.2. Other information

Conductivity	No data available
Surface tension	No data available
Specific gravity	= 1.1

SECTION 10: Stability and reactivity

10.2. Chemical stability

Stable under normal conditions.

SECTION 11: Toxicological information

11.1 Information on hazard classes

Acute toxicity | May cause cancer.

11.1.4. Toxicological Information

Ethylene glycol | Dermal Rat LD50: 3500 | Inhalation Rat LC50/4 h: 2.5

SECTION 12: Ecological information

12.3. Bioaccumulative potential

Partition coefficient

ANTIFREEZE BLUE/RED No data available

SECTION 13: Disposal considerations

General information

Dispose of in compliance with all local and national regulations.

SECTION 14: Transport information

14.1. UN number

The product is not classified as dangerous for carriage.

14.2. UN proper shipping name

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14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

14.7 Maritime Transport in bulk according to IMO instruments

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

SECTION 16: Other information

Other information

Revision	This document differs from the previous version in the following areas: 2 - Precautionary Statement: Disposal. 4 - Skin contact. 4 - Inhalation. 4 - Ingestion.
Text of Hazard Statements in Section 3	Acute Tox. 4: H302 - Harmful if swallowed. STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure . Eye Irrit. 2: H319 - Causes serious eye irritation. Ox. Sol. 3: H272 - May intensify fire; oxidiser. Acute Tox. 3: H301 - Toxic if swallowed. Aquatic Acute 1: H400 - Very toxic to aquatic life.

Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. 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 other process.