

SAFETY DATA SHEET BLUECOL ANTIFREEZE

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

1.1. Product identifier

Product name BLUECOL ANTIFREEZE

Product number BLA001, BLA005, BLA025, BLA199

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Antifreeze liquid.

1.3. Details of the supplier of the safety data sheet

Supplier TETROSYL LIMITED

Bury Lancashire England BL9 7NY 0161 764 5981 0161 797 5899 info@tetrosyl.com

Manufacturer TETROSYL LIMITED

Bury Lancashire England BL9 7NY 0161 764 5981 0161 797 5899 info@tetrosyl.com

1.4. Emergency telephone number

Emergency telephone +44 (0)161 764 5981

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302 STOT RE 2 - H373

Environmental hazards Not Classified

Human health See Section 11 for additional information on health hazards.

Environmental The product is not expected to be hazardous to the environment.

2.2. Label elements

BLUECOL ANTIFREEZE

Pictogram





Signal word Warning

Hazard statements H302 Harmful if swallowed.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements P260 Do not breathe vapour/ spray.

P264 Wash contaminated skin thoroughly after handling. P270 Do not 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.

P501 Dispose of contents/ container in accordance with national regulations. P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

Contains ETHANEDIOL

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

ETHANEDIOL 60-100%

CAS number: 107-21-1 EC number: 203-473-3 REACH registration number: 01-

2119456816-28-0000

Classification

Acute Tox. 4 - H302 STOT RE 2 - H373

DISODIUM TETRABORATE PENTAHYDRATE

2.5-<5.0%

CAS number: 1330-43-4 EC number: 215-540-4 REACH registration number: 01-

2119490790-32-0000

Classification

Eye Irrit. 2 - H319 Repr. 1B - H360Fd

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Remove affected person from source of contamination. Get medical attention if any discomfort

continues.

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Inhalation Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. Keep affected person under observation. Get medical attention. Show this Safety

Data Sheet to the medical personnel.

Ingestion Rinse mouth thoroughly with water. Give plenty of water to drink. Keep affected person under

observation. Get medical attention if any discomfort continues. Show this Safety Data Sheet

to the medical personnel.

Skin contact Remove affected person from source of contamination. Remove contaminated clothing and

rinse skin thoroughly with water. Continue to rinse until pain disappears. Get medical attention

if any discomfort continues. Show this Safety Data Sheet to the medical personnel.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort

continues.

4.2. Most important symptoms and effects, both acute and delayed

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure. Effects may be delayed. Keep affected person under observation.

Inhalation Irritation of nose, throat and airway.

Ingestion May cause discomfort if swallowed. May cause unconsciousness, blindness and possibly

death. Central nervous system depression.

Skin contact Prolonged skin contact may cause redness and irritation.

Eye contact Irritation, burning, lachrymation, blurred vision after liquid splash.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor
No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards No unusual fire or explosion hazards noted.

Hazardous combustion

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

products

5.3. Advice for firefighters

Protective actions during

firefighting

No specific firefighting precautions known.

Special protective equipment

Leave danger zone immediately.

for firefighters

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions For personal protection, see Section 8. In case of spills, beware of slippery floors and

surfaces.

6.2. Environmental precautions

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Environmental precautions Collect and dispose of spillage as indicated in Section 13.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up For waste disposal, see Section 13. Wear protective clothing as described in Section 8 of this

safety data sheet. Provide adequate ventilation. Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb spillage with non-combustible, absorbent material. Contact Health and

Safety department on 6695 for further assistance.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. For waste

disposal, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Read and follow manufacturer's recommendations. Remove contamination with soap and

water or recognised skin cleansing agent. Do not use organic solvents. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when

using the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from heat, sparks and open flame. Store in tightly-closed, original container in a

dry, cool and well-ventilated place.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

No exposure limits known for ingredient(s).

ETHANEDIOL

Long-term exposure limit (8-hour TWA): WEL 20 ppm 52 mg/m^3 vapour Short-term exposure limit (15-minute): WEL 40 ppm 104 mg/m^3 vapour

Sk

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulate

\4/E1 \4/

WEL = Workplace Exposure Limit Sk = Can be absorbed through the skin.

8.2. Exposure controls

Protective equipment







Appropriate engineering

controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection Wear tight-fitting, chemical splash goggles or face shield.

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Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn if

a risk assessment indicates skin contact is possible.

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Wear apron or protective clothing in case of contact.

eyewash station. Wash contaminated clothing before reuse. Wash at the end of each work

shift and before eating, smoking and using the toilet.

Respiratory protection If ventilation is inadequate, suitable respiratory protection must be worn.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Blue.

Odour Odourless.

Odour threshold Not determined.

pH (diluted solution): 6-7.5 100g/l

Melting point -12°C

Initial boiling point and range 197°C @ 760 mm Hg

Flash point 111°C CC (Closed cup).

Evaporation rate Not determined.

Upper/lower flammability or

explosive limits

Lower flammable/explosive limit: 3.2

Vapour pressure 0.05 kPa @ °C

Vapour density 2.14

Relative density 1.1 @ 20°C

Solubility(ies) 100 @ °C Miscible with the following materials: acetone Alcohols. Miscible with water.

Partition coefficient Not determined.

Auto-ignition temperature 400°C

Decomposition Temperature Not determined.

Viscosity 21 cP @ 20°C

9.2. Other information

Other information None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The following materials may react with the product: Oxidising materials.

10.2. Chemical stability

Stability No particular stability concerns.

10.3. Possibility of hazardous reactions

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Possibility of hazardous

reactions

products

Not determined.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time. Avoid heat, flames and other sources of

ignition.

10.5. Incompatible materials

Materials to avoid Acids - oxidising.

10.6. Hazardous decomposition products

Hazardous decomposition

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or

vapours. Oxides of carbon. Oxides of nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects No information available.

Acute toxicity - oral

ATE oral (mg/kg) 526.32

Specific target organ toxicity - single exposure

Target organs Central nervous system Heart and cardiovascular system Kidneys

Inhalation Unlikely to be hazardous by inhalation because of the low vapour pressure of the product at

ambient temperature. Vapours may irritate throat/respiratory system. Symptoms following

overexposure may include the following: Coughing.

Ingestion May cause liver and/or renal damage. Irritating. Symptoms following overexposure may

include the following: Nausea, vomiting. Stomach pain. Harmful: possible risk of irreversible

effects if swallowed.

Skin contact Slightly irritating.

Eye contact May cause temporary eye irritation.

Acute and chronic health

hazards

This chemical can be hazardous when inhaled and/or touched.

Route of entry Ingestion.

Target organs Central nervous system Heart & cardiovascular system Kidneys

Medical symptoms Allergic rash. Delayed, often serious, breathing problems. Tachycardia (excessively rapid

heart beat, including rapid and weak pulse). Unconsciousness, possibly death.

SECTION 12: Ecological Information

Ecotoxicity The product components are not classified as environmentally hazardous. However, large or

frequent spills may have hazardous effects on the environment.

12.1. Toxicity

Acute toxicity - fish

LC₅₀, 96 hours: 72860 mg/l mg/l, Algae

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: >100mg/l mg/l, Daphnia magna

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Acute toxicity - aquatic plants IC₅o, 72 hours: >6500mg/l mg/l, Fish

12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product is not bioaccumulating.

Partition coefficient Not determined.

12.4. Mobility in soil

Mobility The product is soluble in water.

Adsorption/desorption

coefficient

Not available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

Other adverse effects Not applicable.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information When handling waste, the safety precautions applying to handling of the product should be

considered.

Disposal methodsDispose of waste to licensed waste disposal site in accordance with the requirements of the

local Waste Disposal Authority. Absorb in vermiculite, dry sand or earth and place into

containers. Dispose of waste via a licensed waste disposal contractor.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

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14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as

amended).

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009

No. 716).

EU legislation Dangerous Substances Directive 67/548/EEC.

Dangerous Preparations Directive 1999/45/EC.

System of specific information relating to Dangerous Preparations. 2001/58/EC.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information Only trained personnel should use this material.

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 03/02/2016

Revision 1

SDS number 31756

SDS status Approved.

Hazard statements in full H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H360Fd May damage fertility. Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs (Kidneys) through prolonged or repeated exposure.

The information provided in this document has been compiled on the basis of our current knowledge and is believed to be in accordance with the requirements of the Dangerous Substances Directive, Dangerous Preparations Directive and Safety Data Sheets Directive. The information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any particular conditions or process. The conditions and extent of storage and use of material are outside of our control and within the control of the possessor or user. Consequently it is the responsibility of the possessor or user to satisfy themselves as to the completeness of such information and the suitability of the material for their own particular circumstances, conditions or use.