



SAFETY DATA SHEET BLUECOL COOLANT 05

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name BLUECOL COOLANT 05
Product No. BHD001, BHD005, BHD200

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

Identified uses Car maintenance product.

1.3. Details of the supplier of the safety data sheet

Supplier TETROSYL LIMITED
BEVIS GREEN WORKS
WALMERSLEY
BURY
BL9 6RE
0161 764 5981
0161 797 5899
info@tetrosyl.com

Manufacturer TETROSYL LIMITED
BEVIS GREEN WORKS
WALMERSLEY
BURY
BL9 6RE
0161 764 5981
0161 797 5899
info@tetrosyl.com

1.4. Emergency telephone number

0161 764 5981

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	Acute Tox. 4 - H302; Eye Irrit. 2 - H319
Environment	Not classified.

Classification (1999/45/EEC) Xn;R22.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2. Label elements

Contains ETHANEDIOL

Label In Accordance With (EC) No. 1272/2008

BLUECOL COOLANT 05

Signal Word	Warning	
Hazard Statements	H302	Harmful if swallowed.
	H319	Causes serious eye irritation.
Precautionary Statements	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children.
	P270	Do not eat, drink or smoke when using this product.
	P264	Wash hands thoroughly after handling.
	P280	Wear eye protection.
	P301+312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
	P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P337+313	If eye irritation persists: Get medical advice/attention.
Supplementary Precautionary Statements	P501	Dispose of contents/container in accordance with local regulations.
	P330	Rinse mouth.

2.3. Other hazards**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

DISODIUM TETRABORATE PENTAHYDRATE; BORAX PENTAHYDRATE		1-5%
CAS-No.: 12179-04-3	EC No.:	
Classification (EC 1272/2008) Eye Dam. 1 - H318 Repr. 1B - H360FD	Classification (67/548/EEC) Repr. Cat. 2;R60,R61. Xi;R41.	
ETHANEDIOL		60-100%
CAS-No.: 107-21-1	EC No.: 203-473-3	Registration Number: 01-2119456816-28
Classification (EC 1272/2008) Acute Tox. 4 - H302	Classification (67/548/EEC) Xn;R22	

BLUECOL COOLANT 05

SODIUM NITRITE		<0.5
CAS-No.: 7632-00-0	EC No.: 231-555-9	
Classification (EC 1272/2008)	Classification (67/548/EEC)	
Ox. Sol. 3 - H272	O;R8	
Acute Tox. 3 - H301	T;R25	
Aquatic Acute 1 - H400	N;R50	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

Get medical attention if any discomfort continues. General first aid, rest, warmth and fresh air. Remove affected person from source of contamination.

Inhalation

Move injured person into fresh air immediately. Call an ambulance. Be aware that symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure. Bring these instructions.

Ingestion

Get medical attention. Immediately rinse mouth and drink plenty of water. Keep person under observation. If person becomes uncomfortable seek hospital and bring these instructions.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Rinse with water. Get medical attention if irritation persists after washing.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Do not rub eye. Get medical attention promptly if symptoms occur after washing.

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

General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure. NOTE! Effects may be delayed. Keep affected person under observation.

Inhalation

Upper respiratory irritation. Difficulty in breathing.

Ingestion

May cause chemical burns in mouth and throat. May cause stomach pain or vomiting.

Skin contact

Prolonged skin contact may cause redness and irritation. Allergic rash.

Eye contact

May cause severe irritation to eyes.

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

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

This product is not flammable.

BLUECOL COOLANT 05**5.2. Special hazards arising from the substance or mixture**

Hazardous combustion products
None under normal conditions.
Unusual Fire & Explosion Hazards
No unusual fire or explosion hazards noted.
Specific hazards
Not relevant

5.3. Advice for firefighters

Special Fire Fighting Procedures
No specific fire fighting procedure given.
Protective equipment for fire-fighters
Leave danger zone immediately.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

For personal protection, see section 8. In case of spills, beware of slippery floors and surfaces. Avoid inhalation of spray mist and contact with skin and eyes.

6.2. Environmental precautions

Avoid discharge into water courses or onto the ground. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

6.3. Methods and material for containment and cleaning up

Stop leak if possible without risk. Small Spillages: Flush with plenty of water to clean spillage area.

6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Avoid eating, drinking and smoking when using the product. Avoid inhalation of vapours/spray and contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Keep upright. Store in tightly closed original container.

7.3. 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**

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
ETHANEDIOL	WEL	20 ppm	10 mg/m ³	40 ppm	104 mg/m ³	Sk

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

8.2. Exposure controls

Protective equipment

BLUECOL COOLANT 05**Process conditions**

Provide eyewash, quick drench.

Engineering measures

Weighing/dispensing only in well ventilated area.

Respiratory equipment

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

Hand protection

Use suitable protective gloves if risk of skin contact. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Eye protection

Wear approved chemical safety goggles where eye exposure is reasonably probable.

Other Protection

Wear appropriate clothing to prevent any possibility of skin contact. Provide eyewash station.

Hygiene measures

Wash contaminated clothing before reuse. Wash hands after contact. When using do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties**

Appearance	Liquid
Colour	Yellow.
Odour	Characteristic.
Solubility	Soluble in water.
Initial boiling point and boiling range (°C)	>160°C
Melting point (°C)	Not determined.
Relative density	1.131g/cm ³ 20°C
Vapour density (air=1)	Not determined.
Vapour pressure	Not determined.
Evaporation rate	Not determined.
pH-Value, Conc. Solution	Scientifically unjustified.
Viscosity	20 - 30mm ² /s 20°C
Decomposition temperature (°C)	Not determined.
Odour Threshold, Lower	Not determined.
Odour Threshold, Upper	Not determined.
Flash point (°C)	117°C
Auto Ignition Temperature (°C)	Not determined.
Flammability Limit - Lower(%)	Not determined.

BLUECOL COOLANT 05

Flammability Limit - Upper(%)

Not determined.

Partition Coefficient

(N-Octanol/Water)

Not determined.

Oxidising properties

Not available.

9.2. Other information

None.

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity**

No specific reactivity hazards associated with this product.

10.2. Chemical stability

No particular stability concerns.

10.3. Possibility of hazardous reactions

Not applicable.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances.

10.6. Hazardous decomposition products

None under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

Toxic Dose 1 - LD 50

>2000 mg/kg (oral rat)

Toxicological information

No information available.

Inhalation

Vapours may irritate the respiratory system and cause coughing, asthmatic breathing and breathlessness.

Ingestion

Harmful if swallowed. Ingestion of large amounts may cause unconsciousness.

Skin contact

Prolonged and frequent contact may cause redness and irritation.

Eye contact

May cause temporary eye irritation.

Health Warnings

May cause internal injury. INGESTION.

BLUECOL COOLANT 05

Target Organs
Kidneys
Medical Symptoms
Unconsciousness.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
Not regarded as dangerous for the environment.

12.1. Toxicity

LC 50, 96 Hrs, Fish mg/l >100mg/l

Acute Toxicity - Fish

Not available.

EC 50, 48 Hrs, Daphnia, mg/l >100mg/l

Acute Toxicity - Aquatic Invertebrates

Not available.

IC 50, 72 Hrs, Algae, mg/l >100mg/l

12.2. Persistence and degradability

Degradability

The product is biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient

Not determined.

12.4. Mobility in soil

Adsorption/Desorption Coefficient

Not available.

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Not applicable.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Confirm disposal procedures with environmental engineer and local regulations.

SECTION 14: TRANSPORT INFORMATION

General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

BLUECOL COOLANT 05**14.2. UN proper shipping name**

Not applicable.

14.3. Transport hazard class(es)

Transport Labels

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazardsEnvironmentally Hazardous Substance/Marine Pollutant
No.**14.6. Special precautions for user**

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU Legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

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

Revision Date 11/09/2013

Revision 1

Safety Data Sheet Status Approved.

Risk Phrases In Full

R8 Contact with combustible material may cause fire.

R22 Harmful if swallowed.

R61 May cause harm to the unborn child.

R60 May impair fertility.

R41 Risk of serious damage to eyes.

R25 Toxic if swallowed.

R50 Very toxic to aquatic organisms.

BLUECOL COOLANT 05

Hazard Statements In Full

H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H302	Harmful if swallowed.
H360FD	May damage fertility or the unborn child.
H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H400	Very toxic to aquatic life.