Report Date: 11/09/2013 Revision Date: 11/09/2013

Revision 1

1 / 9 SDS No. 30377



# SAFETY DATA SHEET BLUECOL COOLANT 48

This safety data sheet is for internal use only.

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

#### 1.1. Product identifier

Product name BLUECOL COOLANT 48
Product No. BAF001, BAF005, BAF200

## 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

**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 Not classified.

Hazards

Human health Acute Tox. 4 - H302 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

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## **BLUECOL COOLANT 48**



Signal Word Warning

**Hazard Statements** 

H302 Harmful if swallowed.

**Precautionary Statements** 

If medical advice is needed, have product container or label P101

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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.

P301+312 IF SWALLOWED: Call a POISON CENTER or

doctor/physician if you feel unwell.

Classification (67/548/EEC)

Xi;R36.

Dispose of contents/container in accordance with local P501

regulations.

Supplementary Precautionary Statements

P330 Rinse mouth.

## 2.3. Other hazards

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2. Mixtures

| DISODIUM TETRABORATE PENTAHYDRATE 1-5%               |                   |   |  |  |  |  |  |
|--|-------------------|---|--|--|--|--|--|
| CAS-No.: 12179-04-3                                  | EC No.: 215-540-4 |   |  |  |  |  |  |
| Classification (EC 1272/2008)<br>Repr. 1B - H360FD   |                   | Classification (67/548/EEC)<br>Repr. Cat. 2;R60,R61 |  |  |  |  |  |
| ETHANEDIOL   |                   | 60-100%   |  |  |  |  |  |
| CAS-No.: 107-21-1                                    | EC No.: 203-473-3 | Registration Number: 01-2119456816-28               |  |  |  |  |  |
| Classification (EC 1272/2008)<br>Acute Tox. 4 - H302 |                   | Classification (67/548/EEC)<br>Xn;R22               |  |  |  |  |  |
| SODIUM BENZOATE                                      |                   | 5-10%   |  |  |  |  |  |
| CAS-No.: 532-32-1                                    | EC No.: 208-534-8 |   |  |  |  |  |  |

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

## **SECTION 4: FIRST AID MEASURES**

Classification (EC 1272/2008)

Eye Irrit. 2 - H319

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#### 4.1. Description of first aid measures

General information

NOTE! Effects may be delayed. Keep affected person under observation. For breathing difficulties oxygen may be necessary. If breathing stops, provide artificial respiration. Get medical attention. Remove victim immediately from source of exposure. Place unconscious person on the side in the recovery position and ensure breathing can take place. Do not give victim anything to drink if they are unconscious. Inhalation

Remove victim immediately from source of exposure. Get medical attention if any discomfort continues. For breathing difficulties oxygen may be necessary. If breathing stops, provide artificial respiration. In case of inhalation of spray mist: Move person into fresh air and keep at rest. In case of persistent throat irritation or coughing: Seek medical attention and bring these instructions.

Ingestion

Get medical attention immediately! Do not give victim anything to drink if he is unconscious. Try to induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Immediately rinse mouth and drink plenty of water. If person becomes uncomfortable or if ingested in large amounts (50-100 ml for an adult person): Take to hospital along with these instructions.

Skin contact

Remove contaminated clothes and rinse skin thoroughly with water. Get medical attention if any discomfort continues.

Eye contact

Do not rub eye. Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

## 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

Irritation of nose, throat and airway.

Ingestion

May cause discomfort if swallowed. Ingestion may result in unconsciousness, blindness and 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

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

Use: Foam, carbon dioxide or dry powder. Use fire-extinguishing media appropriate for surrounding materials. 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

Hazardous combustion products

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

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

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## 5.3. Advice for firefighters

Special Fire Fighting Procedures

No specific fire fighting procedure given.

Protective equipment for fire-fighters

Leave danger zone immediately. Use protective equipment appropriate for surrounding materials.

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

## 6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet. Avoid inhalation of spray mist and contact with skin and eyes. In case of spills, beware of slippery floors and surfaces.

#### 6.2. Environmental precautions

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

## 6.3. Methods and material for containment and cleaning up

Stop leak if possible without risk. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Provide ventilation and confine spill. Do not allow runoff to sewer. Absorb spillage with suitable absorbent material.

#### 6.4. 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

Read and follow manufacturer's recommendations. Keep away from heat, sparks and open flame. Wear full protective clothing for prolonged exposure and/or high concentrations. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Do not eat, drink or smoke when using the product. Avoid inhalation of vapours/spray and contact with skin and eyes. Avoid forming spray/aerosol mists. Observe occupational exposure limits and minimise the risk of inhalation of vapours and mist. Pregnant or breastfeeding women must not handle this product. Pregnant women should not work with the product, if there is the least risk of exposure.

## 7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Keep containers tightly closed. Keep upright. Keep in original container. Avoid contact with oxidising agents.

## 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/m3 | 40 ppm        | 104 mg/m3 | Sk    |

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

## 8.2. Exposure controls

Protective equipment

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Process conditions

Provide eyewash station.

Engineering measures

Observe occupational exposure limits and minimize the risk of inhalation of vapours. Provide adequate ventilation.

Respiratory equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

Hand protection

Nitrile gloves are recommended. Protective gloves must be used if there is a risk of direct contact or splash.

Eye protection

Wear approved, tight fitting safety glasses where splashing is probable.

Other Protection

Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures

Wash contaminated clothing before reuse. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

## 9.1. Information on basic physical and chemical properties

Appearance Clear liquid.
Colour Blue. Green.

Odour Slight odour of alcohol. Solubility Soluble in water.

Initial boiling point and boiling 122°C

range (°C)

Melting point (°C) -18°C

Relative density 1.1g/cm³ 20°C

Vapour density (air=1) >1

Vapour pressure <0.01 mm Hg 37.8°C

Evaporation rate Not determined.

pH-Value, Conc. Solution 7.2

Viscosity <50 cP 20°C

Decomposition temperature (°C)

Not determined.

Odour Threshold, Lower

Not determined.

Odour Threshold, Upper

Not determined.

Flash point (°C) 115°C PM Closed cup.

Auto Ignition Temperature (°C)

Not determined.

Flammability Limit - Lower(%)

Not determined.

Flammability Limit - Upper(%)

Not determined.

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Partition Coefficient Not determined.

(N-Octanol/Water)

Oxidising properties Not available.

-1.36

## 9.2. Other information

None.

## **SECTION 10: STABILITY AND REACTIVITY**

#### 10.1. Reactivity

Reaction with: Oxidising materials.

## 10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

## 10.3. Possibility of hazardous reactions

Not determined.

#### 10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

## 10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances. Strong acids.

#### 10.6. Hazardous decomposition products

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

## **SECTION 11: TOXICOLOGICAL INFORMATION**

## 11.1. Information on toxicological effects

Toxic Dose 1 - LD 50 7712 mg/kg (oral rat)

Toxic Dose 2 - LD 50

5000 (Ethanediol) mg/kg (oral-rbt)

**Target Organs** 

Central nervous system Heart & cardiovascular system Kidneys

#### Inhalation

Not relevant at normal room temperatures. When heated, irritating vapours may be formed.

Ingestion

Harmful if swallowed. May cause stomach pain or vomiting.

Skin contact

Slightly irritating.

Eye contact

Irritating to eyes.

## Health Warnings

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

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## **BLUECOL COOLANT 48**

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.

Specific effects

May cause damage to the kidneys. Contains a substance/a group of substances with possible risk of harm to the unborn child and with possible risk of impaired fertility.

## **SECTION 12: ECOLOGICAL INFORMATION**

## **Ecotoxicity**

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

## 12.1. Toxicity

LC 50, 96 Hrs, Fish mg/l 72860mg/l EC 50, 48 Hrs, Daphnia, mg/l >100mg/l IC 50, 72 Hrs, Algae, mg/l >6500mg/l

## 12.2. Persistence and degradability

Degradability

The product is biodegradable.

## 12.3. Bioaccumulative potential

Bioaccumulative potential

Will not bio-accumulate.

Partition coefficient

Not determined. -1.36

## 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

Not Classified as PBT/vPvB by current EU criteria.

## 12.6. Other adverse effects

Not applicable.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

#### General information

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

#### 13.1. Waste treatment methods

Confirm disposal procedures with environmental engineer and local regulations.

## **SECTION 14: TRANSPORT INFORMATION**

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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.

## 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 hazards

Environmentally 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

R22 Harmful if swallowed. R36 Irritating to eyes.

R61 May cause harm to the unborn child.

R60 May impair fertility. Report Date : 11/09/2013 9 / 9 SDS No. 30377

# **BLUECOL COOLANT 48**

Hazard Statements In Full

H319 Causes serious eye irritation.

H302 Harmful if swallowed.

H360FD May damage fertility or the unborn child.