

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Concentrated coolant VETROCOOL

Revision date: 23.05.2017

Product code: BO5002819

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Concentrated coolant VETROCOOL

Further trade names

BO 5002816, 20 kg

BO 5002819, 230 kg

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

lubricant assistants

1.3. Details of the supplier of the safety data sheet

| | | |
|-------------------------|---------------------|------------------------------|
| Company name: | BOHLE AG | |
| Street: | Dieselstr. 10 | |
| Place: | D-42781 Haan | |
| Telephone: | +49 2129 5568-0 | Telefax: +49 2129 5568-282 |
| e-mail: | info@bohle.de | |
| Contact person: | Klaus Nehren | Telephone: +49 2129 5568-276 |
| e-mail: | MSDS@bohle.de | |
| Internet: | www.bohle-group.com | |
| Responsible Department: | Chemie | |

1.4. Emergency telephone number: Emergency CONTACT (24-Hour-Number):GBK GmbH +49 (0)6132-84463

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Causes skin irritation.

Causes serious eye irritation.

2.2. Label elements**Regulation (EC) No. 1272/2008****Signal word:** Warning**Pictograms:****Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statements

P260 Do not breathe vapour / Aerosol.

P262 Do not get in eyes, on skin, or on clothing.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

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P308+P313 present and easy to do. Continue rinsing.
 IF exposed or concerned: Get medical advice/attention.

SECTION 3: Composition/information on ingredients
3.2. Mixtures
Chemical characterization

Aqueous solution of organic and inorganic salts.
 Corrosion inhibitor
 Additive
 Polyol

Hazardous components

| CAS No | Chemical name | | | Quantity |
|------------|---|--------------|----------|----------|
| | EC No | Index No | REACH No | |
| | Classification according to Regulation (EC) No. 1272/2008 [CLP] | | | |
| 10049-36-2 | Orthoboric acid, compound with 2,2',2"-nitrioltriethanol | | | 10-20 % |
| | 233-175-9 | | | |
| | Skin Irrit. 2, Eye Irrit. 2; H315 H319 | | | |
| 82801-62-5 | Sebacic acid, compound with 2-aminoethanol | | | 10-20 % |
| | 280-045-2 | | | |
| | Skin Irrit. 2, Eye Irrit. 2; H315 H319 | | | |
| 1330-43-4 | disodium tetraborate, anhydrous; boric acid, disodium salt | | | 1-2,5 % |
| | 215-540-4 | 005-011-00-4 | | |
| | Repr. 1B, Eye Irrit. 2A; H360FD H319 | | | |

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures
4.1. Description of first aid measures
General information

First aider: Pay attention to self-protection!
 Move out of dangerous area.
 Take off all contaminated clothing immediately.

After inhalation

Move to fresh air.
 If symptoms persist, call a physician.

After contact with skin

Wash off with soap and water.
 If symptoms persist, call a physician.

After contact with eyes

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
 Call a physician immediately.

After ingestion

Rinse mouth thoroughly with water.
 Do not induce vomiting.
 Consult a physician.

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

Causes skin irritation.
 Causes serious eye irritation.

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SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**water spray dry powder alcohol-resistant foam carbon dioxide (CO₂)**Unsuitable extinguishing media**

High power water jet

5.2. Special hazards arising from the substance or mixtureCarbon monoxide
nitrogen oxides (NO_x)**5.3. Advice for firefighters**In case of fire: Wear self-contained breathing apparatus.
Use water spray jet to protect personnel and to cool endangered containers.**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment.

6.2. Environmental precautionsDo not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.**6.3. Methods and material for containment and cleaning up**Ensure adequate ventilation.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).**6.4. Reference to other sections**SECTION 8: Exposure controls/personal protection
SECTION 13: Disposal considerations**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**Avoid contact with skin and eyes.
Handle in accordance with good industrial hygiene and safety practice.
Provide sufficient air exchange and/or exhaust in work rooms.**Advice on protection against fire and explosion**Usual measures for fire prevention.
Co-ordinate fire-fighting measures to the fire surroundings.**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**Keep containers tightly closed in a cool, well-ventilated place.
Store in original container.
Store in a place accessible by authorized persons only.
Protect from frost, heat and sunlight.**Advice on storage compatibility**

Do not store near acids.

Further information on storage conditions

5 - 40°C

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters
Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|-----------|---------------------------------|-----|-------------------|-----------|---------------|--------|
| 1330-43-4 | Disodium tetraborate, anhydrous | - | 1 | | TWA (8 h) | WEL |
| | | - | - | | STEL (15 min) | WEL |

DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|------------------------|--|----------------|----------|------------------------|
| 1330-43-4 | disodium tetraborate, anhydrous; boric acid, disodium salt | | | |
| Worker DNEL, long-term | | inhalation | systemic | 6,7 mg/m ³ |
| Worker DNEL, long-term | | inhalation | local | 11,7 mg/m ³ |

Additional advice on limit values

Even in case of a full release, due to the small amount of substances present, it is not expected that exposure limits will be reached. However it is the duty of the user to verify this and follow given exposure limits at the workplace.

8.2. Exposure controls
Protective and hygiene measures

Provide adequate ventilation. Do not breathe vapour/aerosol.
 Avoid contact with the skin and the eyes.
 Take off contaminated clothing and shoes immediately.
 Keep away from food, drink and animal feedingstuffs.
 Wash hands before breaks and immediately after handling the product.
 When using, do not eat, drink or smoke.

Eye/face protection

safety glasses with side-shields conforming to EN166

Hand protection

protective gloves DIN EN 374
 nitrile rubber
 Butyl caoutchouc (butyl rubber)
 For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Chemical protection clothing DIN EN 13034

Respiratory protection

In case of insufficient ventilation, wear suitable respiratory equipment.
 Recommended Filter type: A-P2

Environmental exposure controls

Do not allow to enter into surface water or drains.
 Do not allow to enter into soil/subsoil.

SECTION 9: Physical and chemical properties
9.1. Information on basic physical and chemical properties

Physical state: liquid
 Colour: green
 Odour: slight

Test method

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pH-Value (at 20 °C): 8,9

Changes in the physical state

Melting point: <0 °C

Initial boiling point and boiling range: > 100 °C

Flash point: not applicable

Lower explosion limits: not applicable

Upper explosion limits: not applicable

Ignition temperature: not applicable

 Vapour pressure: 23 hPa
(at 20 °C)

 Density (at 20 °C): 1,12 g/cm³ DIN 51757

Water solubility: completely miscible

 Viscosity / dynamic: 8 mPa·s
(at 20 °C)

SECTION 10: Stability and reactivity
10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Exothermic reaction with strong acids.

10.4. Conditions to avoid

Protect from frost, heat and sunlight.

10.5. Incompatible materials

 strong acids and oxidizing agents
 Nitrous acid and other nitrosating agents

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information
11.1. Information on toxicological effects
Acute toxicity

| CAS No | Chemical name | | | | |
|-----------|--|---------------|---------|--------|--------|
| | Exposure route | Dose | Species | Source | Method |
| 1330-43-4 | disodium tetraborate, anhydrous; boric acid, disodium salt | | | | |
| | oral | LD50 mg/kg | 2400 | Rat | |

Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

SECTION 12: Ecological information
12.2. Persistence and degradability

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No data available

12.3. Bioaccumulative potential

Bioaccumulation is unlikely.

12.4. Mobility in soil

No data available

Further information

slightly water endangering

Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

Dispose of waste according to applicable legislation.

SECTION 14: Transport information**Other applicable information**

Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):
disodium tetraborate, anhydrous; boric acid, disodium salt

Restrictions on use (REACH, annex XVII):

Entry 30: disodium tetraborate, anhydrous; boric acid, disodium salt

Additional information

The product does not need to be labelled in accordance with EC directives or respective national laws.

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

SECTION 16: Other information**Relevant H and EUH statements (number and full text)**

| | |
|--------|--|
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H360FD | May damage fertility. May damage the unborn child. |

Further Information

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)