

**Safety Data Sheet**

according to UK REACH Regulation

**Concentrated coolant VETROCOOL**

Revision date: 01.06.2023

Product code: BO5002827

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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 5002827, 20 kg

BO 5002828, 220 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:         | Dr. Martin Schade | Telephone: +49 2129 5568-300 |
| e-mail:                 | MSDS@bohle.de     |                              |
| Internet:               | www.bohle.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****GB CLP Regulation**

This mixture is not classified as hazardous in accordance with GB CLP Regulation.

**2.2. Label elements****GB CLP Regulation****Precautionary statements**

|                |  |
|----------------|--|
| P264           | Wash hands thoroughly after handling.  |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P302+P352      | IF ON SKIN: Wash with plenty of water.   |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P337+P313      | If eye irritation persists: Get medical advice/attention.  |
| P332+P313      | If skin irritation occurs: Get medical advice/attention.   |
| P362+P364      | Take off contaminated clothing and wash it before reuse.   |
| P503           | Dispose of waste according to applicable legislation.  |

**Special labelling of certain mixtures**

EUH210 Safety data sheet available on request.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

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**Hazardous components**

| CAS No   | Chemical name                                       |              |          | Quantity   |
|----------|---|--------------|----------|------------|
|          | EC No   | Index No     | REACH No |            |
|          | Classification (GB CLP Regulation)                  |              |          |            |
| 111-46-6 | 2,2'-oxybisethanol; diethylene glycol               |              |          | 5 - < 10 % |
|          | 203-872-2   | 603-140-00-6 |          |            |
|          | Acute Tox. 4; H302                                  |              |          |            |
| 105-59-9 | 2,2'-(methylimino)diethanol; N-methyldiethanolamine |              |          | 1 - < 5 %  |
|          | 203-312-7   | 603-079-00-5 |          |            |
|          | Eye Irrit. 2; H319                                  |              |          |            |

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

**Specific Conc. Limits, M-factors and ATE**

| CAS No   | EC No   | Chemical name                                       | Quantity   |
|----------|---|---|------------|
|          | Specific Conc. Limits, M-factors and ATE  |   |            |
| 111-46-6 | 203-872-2   | 2,2'-oxybisethanol; diethylene glycol               | 5 - < 10 % |
|          | inhalation: LC50 = > 5 mg/l (vapours); dermal: LD50 = 13300 mg/kg; oral: LD50 = 19600 mg/kg |   |            |
| 105-59-9 | 203-312-7   | 2,2'-(methylimino)diethanol; N-methyldiethanolamine | 1 - < 5 %  |
|          | dermal: LD50 = 5990 mg/kg; oral: LD50 = 4680 mg/kg  |   |            |

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**
**After inhalation**

Remove person to fresh air and keep comfortable for breathing. If symptoms persist, call a physician.

**After contact with skin**

Wash off with warm water and soap. If skin irritation persists, call a physician.

**After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. If symptoms persist, call a physician.

**After ingestion**

Rinse mouth. When in doubt or if symptoms are observed, get medical advice.

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

May cause eye/skin irritation.

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

Show this safety data sheet to the doctor in attendance.

**SECTION 5: Firefighting measures**
**5.1. Extinguishing media**
**Suitable extinguishing media**

 Water mist. Foam. dry powder. Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media**

Do not use a solid water stream as it may scatter and spread fire.

**5.2. Special hazards arising from the substance or mixture**

 Carbon monoxide  
 nitrogen oxides (NO<sub>x</sub>)

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. Move undamaged containers from immediate hazard area if it can be done safely.

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**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Use personal protective equipment.

**6.2. Environmental precautions**

Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

**6.3. Methods and material for containment and cleaning up****For containment**

Large amounts of spillages: Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Small amounts of spillages: Wipe up with absorbent material (eg. cloth, fleece).

**For cleaning up**

Flush with water.

**Other information**

Never return spills in original containers for re-use.

**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.

**Advice on general occupational hygiene**

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.

**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.

Protect from frost, heat and sunlight.

Store in original container.

**Further information on storage conditions**

10 - 30°C

**7.3. Specific end use(s)**

lubricant assistants

**SECTION 8: Exposure controls/personal protection**

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**8.1. Control parameters**
**Exposure limits (EH40)**

| CAS No   | Substance         | ppm | mg/m <sup>3</sup> | fibres/ml | Category  | Origin |
|----------|-------------------|-----|-------------------|-----------|-----------|--------|
| 111-46-6 | 2,2'-Oxydiethanol | 23  | 101               |           | TWA (8 h) | WEL    |

**DNEL/DMEL values**

| CAS No                 | Substance   | Exposure route | Effect   | Value                |
|------------------------|---|----------------|----------|----------------------|
| 111-46-6               | 2,2'-oxybisethanol; diethylene glycol               |                |          |                      |
| Worker DNEL, long-term |   | inhalation     | systemic | 26 mg/m <sup>3</sup> |
| Worker DNEL, long-term |   | dermal         | systemic | 106 mg/kg bw/day     |
| Worker DNEL, long-term |   | inhalation     | local    | 60 mg/m <sup>3</sup> |
| 105-59-9               | 2,2'-(methylimino)diethanol; N-methyldiethanolamine |                |          |                      |
| Worker DNEL, long-term |   | dermal         | systemic | 19 mg/kg bw/day      |

**PNEC values**

| CAS No              | Substance   | Value      |
|---------------------|---|------------|
| 105-59-9            | 2,2'-(methylimino)diethanol; N-methyldiethanolamine |            |
| Freshwater          |   | 0,1 mg/l   |
| Marine water        |   | 0,013 mg/l |
| Freshwater sediment |   | 0,89 mg/l  |
| Marine sediment     |   | 0,11 mg/l  |

**8.2. Exposure controls**
**Appropriate engineering controls**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

**Individual protection measures, such as personal protective equipment**
**Eye/face protection**

safety glasses with side-shields conforming to EN166

**Hand protection**

protective gloves EN ISO 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**

Only wear fitting, comfortable and clean protective clothing.

**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.

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

Physical state: liquid  
Colour: light yellow  
Odour: characteristic

|                                      | Test method                             |
|--------------------------------------|---|
| Flammability:                        | not applicable                          |
| pH-Value:                            | 9,5 -10,5 DIN 51369                     |
| Viscosity / kinematic:<br>(at 40 °C) | 3 - 5 mm <sup>2</sup> /s DIN 16896      |
| Water solubility:                    | soluble OECD 116                        |
| Density:                             | 1,060-1,080 g/cm <sup>3</sup> DIN 51757 |

**9.2. Other information****Information with regard to physical hazard classes**

Explosive properties  
none  
Oxidizing properties  
none

**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**

No dangerous reaction known under conditions of normal use.

**10.4. Conditions to avoid**

Protect from frost, heat and sunlight.

**10.5. Incompatible materials**

strong acids and oxidizing agents

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

Based on available data, the classification criteria are not met.

**ATEmix calculated**

ATE (oral) 6666,7 mg/kg

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| CAS No   | Chemical name                                       |               |          |         |        |        |
|----------|---|---------------|----------|---------|--------|--------|
|          | Exposure route                                      | Dose          |          | Species | Source | Method |
| 111-46-6 | 2,2'-oxybisethanol; diethylene glycol               |               |          |         |        |        |
|          | oral  | LD50<br>mg/kg | 19600    | Rat     |        |        |
|          | dermal  | LD50<br>mg/kg | 13300    | Rabbit  |        |        |
|          | inhalation (4 h) vapour                             | LC50          | > 5 mg/l | Rat     |        |        |
| 105-59-9 | 2,2'-(methylimino)diethanol; N-methyldiethanolamine |               |          |         |        |        |
|          | oral  | LD50<br>mg/kg | 4680     | Rat     |        |        |
|          | dermal  | LD50<br>mg/kg | 5990     | Rabbit  |        |        |

**Irritation and corrosivity**

Based on available data, the classification criteria are not met.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information**
**12.1. Toxicity**

Based on available data, the classification criteria are not met.

| CAS No   | Chemical name                                       |              |                |           |                            |        |        |
|----------|---|--------------|----------------|-----------|----------------------------|--------|--------|
|          | Aquatic toxicity                                    | Dose         |                | [h]   [d] | Species                    | Source | Method |
| 111-46-6 | 2,2'-oxybisethanol; diethylene glycol               |              |                |           |                            |        |        |
|          | Acute fish toxicity                                 | LC50<br>mg/l | > 32000        | 96 h      | Gambusia affinis           |        |        |
| 105-59-9 | 2,2'-(methylimino)diethanol; N-methyldiethanolamine |              |                |           |                            |        |        |
|          | Acute fish toxicity                                 | LC50<br>mg/l | 1000 -<br>2200 | 96 h      | Leuciscus idus             |        |        |
|          | Acute algae toxicity                                | ErC50        | 37 mg/l        | 72 h      | Desmodesmus<br>subspicatus |        |        |
|          | Acute crustacea toxicity                            | EC50         | 233 mg/l       | 48 h      | Daphnia magna              |        |        |

**12.3. Bioaccumulative potential**
**Partition coefficient n-octanol/water**

| CAS No   | Chemical name                                       | Log Pow      |
|----------|---|--------------|
| 111-46-6 | 2,2'-oxybisethanol; diethylene glycol               | -1,98 (25°C) |
| 105-59-9 | 2,2'-(methylimino)diethanol; N-methyldiethanolamine | -1,08        |

**12.5. Results of PBT and vPvB assessment**

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The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

**List of Wastes Code - residues/unused products**

120110 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; synthetic machining oils; hazardous waste

**List of Wastes Code - used product**

120109 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; machining emulsions and solutions free of halogens; hazardous waste

**SECTION 14: Transport information****SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 75

**National regulatory information**

Water hazard class (D): 2 - obviously hazardous to water

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,13,15.

**Relevant H and EUH statements (number and full text)**

|        |   |
|--------|---|
| H302   | Harmful if swallowed.                   |
| H319   | Causes serious eye irritation.          |
| EUH210 | Safety data sheet available on request. |

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