

according to Regulation (EC) No 1907/2006

**Concentrated coolant VETROCOOL low-foaming**

Revision date: 31.07.2019

Product code: BO5002818

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

Concentrated coolant VETROCOOL low-foaming

**Further trade names**

BO 5002817, 20 kg

BO 5002818, 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:	Klaus Nehren	Telephone: +49 2129 5568-276
e-mail:	MSDS@bohle.de	
Internet:	www.bohle.com	
Responsible Department:	Chemie	

**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 or shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

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

 Corrosion inhibitor  
 Additive

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
10049-36-2	Orthoboric acid, compound with 2,2',2"-nitrioltriethanol			15-20 %
	233-175-9		01-2120763507-48	
	Skin Irrit. 2, Eye Irrit. 2; H315 H319			
82801-62-5	Sebacic acid, compound with 2-aminoethanol			7-10 %
	280-045-2			
	Skin Irrit. 2, Eye Irrit. 2; H315 H319			
10043-35-3	Boric acid			2-2,5 %
	233-139-2	005-007-00-2	01-2119486683-25	
	Repr. 1B; H360FD			

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.

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

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**Suitable extinguishing media**water spray dry powder alcohol-resistant foam carbon dioxide (CO<sub>2</sub>)**Unsuitable extinguishing media**

High power water jet

**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.  
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 precautions**Do 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.**Hints on joint storage**

Do not store near acids.

**Further information on storage conditions**

5 - 40°C

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

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**DNEL/DMEL values**

CAS No	Substance	Exposure route	Effect	Value
10043-35-3	Boric acid			
Worker DNEL, long-term		inhalation	systemic	8,3 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	392 mg/kg bw/day

**PNEC values**

CAS No	Substance	Value
10043-35-3	Boric acid	
Freshwater		1,35 mg/l
Marine water		1,35 mg/l
Freshwater sediment		1,8 mg/kg
Marine sediment		1,8 mg/kg
Micro-organisms in sewage treatment plants (STP)		1,75 mg/l

**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.

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

Physical state:	liquid
Colour:	green
Odour:	slight

pH-Value (at 20 °C):	9,5
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**Changes in the physical state**

Melting point:	-8 °C
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Initial boiling point and boiling range:	> 100 °C
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Flash point:	not applicable
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Lower explosion limits:	not applicable
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Upper explosion limits:	not applicable
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Ignition temperature:	not applicable
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Density (at 20 °C):	1,06 g/cm <sup>3</sup>	DIN 51757
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Water solubility:	completely miscible
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Viscosity / dynamic: (at 20 °C)	3 mPa·s	DIN 54453
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Viscosity / kinematic: (at 20 °C)	6 mm <sup>2</sup> /s
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**Test method****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**

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**Acute toxicity**

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
10043-35-3	Boric acid				
	oral	LD50 3500-4100 mg/kg	Rat		
	dermal	LD50 2000 mg/kg	Rabbit		
	inhalation (4 h) aerosol	LC50 2120 mg/l	Rat		

**Irritation and corrosivity**

Causes skin irritation.

Causes serious eye irritation.

**SECTION 12: Ecological information**

**12.1. Toxicity**

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
10043-35-3	Boric acid					
	Acute fish toxicity	LC50 79,7 mg/l	96 h	Pimephales promelas (fathead minnow)		
	Acute crustacea toxicity	EC50 133 mg/l	48 h	Daphnia magna (Big water flea)		
	Fish toxicity	NOEC 1,8 mg/l	34 d	Brachydanio rerio (zebra-fish)		
	Crustacea toxicity	NOEC 6-13 mg/l	21 d	Daphnia magna (Big water flea)		
	Acute bacteria toxicity	(17,5 mg/l)	3 h			

**12.2. Persistence and degradability**

No data available

**12.3. Bioaccumulative potential**

Bioaccumulation is unlikely.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
10043-35-3	Boric acid	-1,09

**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**

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**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):

Boric acid

Restrictions on use (REACH, annex XVII):

Entry 30: Boric acid

**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.)*