

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**Concentrated coolant VETROCOOL**

Revision date: 29.07.2025

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 5002829, 5 kg

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****Regulation (EC) No 1272/2008**

This mixture is not classified as hazardous in accordance with Regulation (EC) No 1272/2008.

**2.2. Label elements****Regulation (EC) No 1272/2008****Special labelling of certain mixtures**

EUH210 Safety data sheet available on request.

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

Corrosion inhibitor

Additive

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**Relevant ingredients**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
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			
3811-73-2	pyridine-2-thiol 1-oxide, sodium salt; pyriithione sodium; sodium pyriithione			0,1 - < %
	223-296-5	613-344-00-7		
	Acute Tox. 3, Acute Tox. 3, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, STOT RE 1, Aquatic Acute 1, Aquatic Chronic 2; H331 H311 H302 H315 H319 H317 H372 H400 H411 EUH070			

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 %
	oral: LD50 = 500 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		
3811-73-2	223-296-5	pyridine-2-thiol 1-oxide, sodium salt; pyriithione sodium; sodium pyriithione	0,1 - < %
	inhalation: ATE 0,5 mg/l (dusts or mists); dermal: ATE 790 mg/kg; oral: ATE 500 mg/kg Aquatic Acute 1; H400: M=100		

**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**

- 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**

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**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.

**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**

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**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.

**Hints on joint storage**

Do not store near acids.

**Further information on storage conditions**

10 - 30°C

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

lubricant assistants

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

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
111-46-6	Diethylene glycol	23	100		TWA (8 h)	

**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
	Environmental compartment	
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

**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**
**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

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**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.

**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
Boiling point or initial boiling point and boiling range:	> 100 °C
Flammability:	not applicable
Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Flash point:	not applicable
Auto-ignition temperature:	not applicable
pH-Value (at 20 °C):	9,5 -10,5 DIN 51369
Viscosity / kinematic: (at 40 °C)	3 - 5 mm <sup>2</sup> /s DIN 16896
Water solubility:	soluble OECD 116
Density (at 20 °C):	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.

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**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 Regulation (EC) No 1272/2008**
**Acute toxicity**

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

**ATEmix calculated**

ATE (oral) &gt; 5000 mg/kg; ATE (dermal) &gt; 5000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 12,5 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
111-46-6	2,2'-oxybisethanol; diethylene glycol				
	oral	LD50 500 mg/kg			
105-59-9	2,2'-(methylimino)diethanol; N-methyldiethanolamine				
	oral	LD50 4680 mg/kg	Rat		
	dermal	LD50 5990 mg/kg	Rabbit		
3811-73-2	pyridine-2-thiol 1-oxide, sodium salt; pyriithione sodium; sodium pyriithione				
	oral	ATE 500 mg/kg			
	dermal	ATE 790 mg/kg			
	inhalation dust/mist	ATE 0,5 mg/l			

**Irritation and corrosivity**

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Causes skin irritation.

Causes serious eye irritation.

**Sensitising effects**

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

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

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

Reproductive toxicity: 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.

**11.2. Information on other hazards**
**Endocrine disrupting properties**

This information is not available.

**SECTION 12: Ecological information**

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**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 > 32000 mg/l	96 h	Gambusia affinis		
105-59-9	2,2'-(methylimino)diethanol; N-methyldiethanolamine					
	Acute fish toxicity	LC50 1000 - 2200 mg/l	96 h	Leuciscus idus		
	Acute algae toxicity	ErC50 37 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 233 mg/l	48 h	Daphnia magna		

**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
111-46-6	2,2'-oxybisethanol; diethylene glycol	-1,98 (25°C)
105-59-9	2,2'-(methylimino)diethanol; N-methyldiethanolamine	-1,08

**12.4. Mobility in soil**

No data available

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

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

**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.

**12.7. Other adverse effects**

This information is not available.

**Further information**

Do not flush into surface water or sanitary sewer system.

**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**

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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**

Restrictions on use (REACH, annex XVII):

Entry 75

**National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

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

This data sheet contains changes from the previous version in section(s): 1,2,12,15.

**Abbreviations and acronyms**

Acute Tox: Acute toxicity

Skin Irrit: Skin irritation

Eye Irrit: Eye irritation

Skin Sens: Skin sensitisation

STOT RE: Specific target organ toxicity - repeated exposure

Aquatic Acute: Acute aquatic hazard

Aquatic Chronic: Chronic aquatic hazard

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

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
EUH070	Toxic by eye contact.
EUH210	Safety data sheet available on request.

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance 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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*