

Safety Data Sheet

according to Regulation (EC) No 1907/2006

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****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****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 (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			

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 (CO₂).

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_x)

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
Occupational exposure limits

CAS No	Substance	ppm	mg/m ³	fib/cm ³	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 ³
Worker DNEL, long-term		dermal	systemic	106 mg/kg bw/day
Worker DNEL, long-term		inhalation	local	60 mg/m ³
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: (at 40 °C)	3 - 5 mm ² /s DIN 16896
Water solubility:	soluble OECD 116
Density:	1,060-1,080 g/cm ³ 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 Regulation (EC) No 1272/2008
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 mg/kg	19600	Rat		
	dermal	LD50 mg/kg	13300	Rabbit		
	inhalation (4 h) vapour	LC50	> 5 mg/l	Rat		
105-59-9	2,2'-(methylimino)diethanol; N-methyldiethanolamine					
	oral	LD50 mg/kg	4680	Rat		
	dermal	LD50 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 mg/l	> 32000	96 h	Gambusia affinis	
105-59-9	2,2'-(methylimino)diethanol; N-methyldiethanolamine					
	Acute fish toxicity	LC50 mg/l	1000 - 2200	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	

12.3. 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 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.

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.)