

Concentrated coolant VETROCOOL

Revision date: 08/22/2023

Product code: BO5002833

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1. Identification
Product identifier

Concentrated coolant VETROCOOL

Further trade names

BO 5002833, 5 kg

BO 50028333, 20 kg

Recommended use of the chemical and restrictions on use
Use of the substance/mixture

lubricant assistants Additive

Details of the supplier of the safety data sheet
Manufacturer

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	

Trader of the product

Company name:	Bohle America, Inc.
Street:	10924 Granite Street, Suite 200
Place:	USA-NC 28273 Charlotte
e-mail (Contact person):	sales@bohle.com

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

2. Hazard(s) identification
Classification of the chemical
Regulation (EC) No 1272/2008

Eye Irrit. 2; H319

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

Label elements
Regulation (EC) No 1272/2008
Signal word: Warning

Pictograms:

Hazard statements

H319	Causes serious eye irritation
H412	Harmful to aquatic life with long lasting effects

Precautionary statements

P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.

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P280 Wear protective gloves/protective clothing/eye protection/face protection.
 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.
 P501 Dispose of waste according to applicable legislation.

Labelling of packages where the contents do not exceed 125 ml**Signal word:** Warning**Pictograms:****Hazard statements**

H412

3. Composition/information on ingredients**Mixtures****Chemical characterization**

Additive

Hazardous components

CAS No	Components			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
95-14-7	Benzotriazole			20 - < 25 %
	202-394-1		01-2119979079-20	
	Acute Tox. 4, Eye Irrit. 2, Aquatic Chronic 2; H302 H319 H411			

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

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Components	Quantity
		Specific Conc. Limits, M-factors and ATE	
95-14-7	202-394-1	Benzotriazole	20 - < 25 %
	dermal: LD50 = >2000 mg/kg; oral: LD50 = 500 mg/kg		

4. First-aid measures**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.

Most important symptoms and effects, both acute and delayed

May cause eye/skin irritation.

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Indication of any immediate medical attention and special treatment needed

Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures**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.

Specific hazards arising from the chemicalCarbon monoxide
nitrogen oxides (NO_x)**Special protective equipment and precautions for fire-fighters**

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

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

Use personal protective equipment.

Environmental precautionsDo not flush into surface water or sanitary sewer system.
Avoid subsoil penetration.**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.

Reference to other sections

SECTION 8: Exposure controls/personal protection

SECTION 13: Disposal considerations

7. Handling and storage**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.

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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.

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.

Hints on joint storage

Do not store near acids.

Further information on storage conditions

10 - 30°C

Specific end use(s)

Inhibitor. For use in industrial installations and professional treatment only.

8. Exposure controls/personal protection
Control parameters
DNEL/DMEL values

CAS No	Substance			
DNEL type	Exposure route	Effect	Value	
95-14-7	Benzotriazole			
Worker DNEL,	dermal	systemic	1,08 mg/kg bw/day	
Worker DNEL,	inhalation	systemic	19 mg/m ³	

PNEC values

CAS No	Substance	
Environmental compartment	Value	
95-14-7	Benzotriazole	
Freshwater	0,0194 mg/l	
Freshwater sediment	0,004 mg/kg	
Marine sediment	0,004 mg/kg	
Micro-organisms in sewage treatment plants (STP)	394 mg/l	
Soil	0,003 mg/kg	

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.

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

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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.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	liquid
Color:	yellowbrown
Odor:	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):	7,5-8,5 ASTM D 1929 DIN 51369
Viscosity / kinematic: (at 40 °C)	8 - 12 mm ² /s DIN 16896
Water solubility:	soluble OECD 116
Density (at 20 °C):	1,130-1,150 g/cm ³ DIN 51757

Other information

Information with regard to physical hazard classes

Explosive properties

none

Sustaining combustion:

UN Test L.2

Oxidizing properties

none

10. Stability and reactivity

Reactivity

No hazardous reaction when handled and stored according to provisions.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid

Protect from frost, heat and sunlight.

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Incompatible materials

strong acids and oxidizing agents

Hazardous decomposition products

No known hazardous decomposition products.

11. Toxicological information
Information on toxicological effects
Acute toxicity

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

ATEmix calculated

ATE (oral) 2500,0 mg/kg

CAS No	Components				
	Exposure route	Dose	Species	Source	Method
95-14-7	Benzotriazole				
	oral	LD50 500 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rabbit		

Irritation and corrosivity

Causes serious eye irritation

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

Causes skin irritation.

Causes serious eye irritation.

Sensitizing 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.

Specific target organ toxicity (STOT) - single exposure

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

Specific target organ toxicity (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.

12. Ecological information
Ecotoxicity

Harmful to aquatic life with long lasting effects

CAS No	Components					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
95-14-7	Benzotriazole					
	Acute fish toxicity	LC50 180 mg/l	96 h	Danio rerio		
	Acute algae toxicity	ErC50 75 mg/l	72 h	Pseudokirchnerella		
	Acute crustacea toxicity	EC50 15,8 mg/l	48 h	Daphnia gaëata		
	Crustacea toxicity	NOEC 0,97 mg/l	21 d	Daphnia		

Persistence and degradability

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No data available

Bioaccumulative potential

Bioaccumulation is unlikely.

Partition coefficient n-octanol/water

CAS No	Components	Log Pow
95-14-7	Benzotriazole	1,34

Mobility in soil

No data available

Results of PBT and vPvB assessment

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

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.

Further information

slightly water endangering
Do not flush into surface water or sanitary sewer system.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Dispose of waste according to applicable legislation.

List of Wastes Code - used product

160508 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; discarded organic chemicals consisting of or containing hazardous substances; hazardous waste

14. Transport information

Other applicable information

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

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

National regulatory information

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

16. Other information

Classification for mixtures and used evaluation method according to GHS

Classification	Classification procedure
Eye Irrit. 2; H319	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H statements (full text)

H302 Harmful if swallowed
H319 Causes serious eye irritation

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H411 Toxic to aquatic life with long lasting effects
H412 Harmful to aquatic life with long lasting effects

Other data

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