

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Additiv VETROCOOL

Revision date: 18.01.2024

Product code: BO5002833

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

Additiv VETROCOOL

Further trade names

BO 5002833, 5 kg

BO 50028333, 20 kg

UFI: 5J5E-CVYY-S8FT-NJ0M

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture

lubricant assistants Additive

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

Eye Irrit. 2; H319

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. 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.
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.

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Labelling of packages where the contents do not exceed 125 ml
Signal word: Warning

Pictograms:

Hazard statements

H412

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

Additive

Hazardous components

CAS No	Chemical name			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	Chemical name	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		

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 (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 mixtureCarbon 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.

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

Use personal protective equipment.

6.2. Environmental precautionsDo 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)

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

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

CAS No	Substance	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	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.

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.

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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:	yellowbrown		
Odour:	characteristic		
Boiling point or initial boiling point and boiling range:	> 100 °C		Test method
Flammability:	not applicable		
Lower explosion limits:	not applicable		
Upper explosion limits:	not applicable		
Flash point:	not applicable		
Auto-ignition temperature:	not applicable	ASTM D 1929	
pH-Value (at 20 °C):	7,5-8,5	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	

9.2. Other information
Information with regard to physical hazard classes

Explosive properties

none

Sustaining combustion:

UN Test L.2

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.

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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) 2500,0 mg/kg

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

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.

11.2. Information on other hazards
Endocrine disrupting properties

This information is not available.

SECTION 12: Ecological information
12.1. Toxicity

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name					
	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 mg/l	15,8	48 h	Daphnia gaōdata	
	Crustacea toxicity	NOEC mg/l	0,97	21 d	Daphnia	

12.2. Persistence and degradability

No data available

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12.3. Bioaccumulative potential

Bioaccumulation is unlikely.

Partition coefficient n-octanol/water

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

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

 slightly water endangering
 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

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

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

SECTION 14: Transport information
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 3

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): 9,12.

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Classification for mixtures and used evaluation method according to Regulation (EC) No 1272/2008 [CLP]

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

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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