

according to Regulation (EC) No 1907/2006

VETROFLOCCULANT flocculant, liquid

Revision date: 15.04.2019

Product code: BO50028331

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

VETROFLOCCULANT flocculant, liquid

Further trade names

VETROFLOCCULANT BO 50028331 / BO50028335

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

Agglomerating agent

Uses advised against

No data available

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	

1.4. Emergency telephone number:

Only available during office hours. +49 2129 5568-276

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.

The product does not need to be labelled in accordance with EC directives or respective national laws.

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

EUH208	Contains 1,2-Benzisothiazol-3(2H)-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

Additional advice on labelling

The product does not need to be labelled in accordance with EC directives or respective national laws.

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

Acrylate

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
2634-33-5	1,2-Benzisothiazol-3(2H)-one			<0,05%
	220-120-9	613-088-00-6		
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 2; H302 H315 H318 H317 H400 H411			

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!
 Remove affected person from the danger area and lay down.
 Remove contaminated, saturated clothing immediately.

After inhalation

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

After contact with skin

Wash off with soap and plenty of water. In case of skin irritation, consult a physician.

After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

After ingestion

Rinse mouth. Do NOT induce vomiting. If symptoms persist, call a physician.

4.2. Most important symptoms and effects, both acute and delayed

No data available

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2)
 Extinguishing powder
 alcohol resistant foam
 Water spray jet

Unsuitable extinguishing media

High power water jet

5.2. Special hazards arising from the substance or mixture

In case of fire may be liberated: Gases/vapours, toxic
 Carbon monoxide
 nitrogen oxides (NOx)

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

Additional information

Use water spray jet to protect personnel and to cool endangered containers.

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

Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

6.3. Methods and material for containment and cleaning up

Provide adequate ventilation.

Collect spillage. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Dispose of waste according to applicable legislation.

6.4. Reference to other sections

See section 8. Disposal: see section 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Provide adequate ventilation as well as local exhaustion at critical locations.

Use personal protective equipment as required.

To avoid risks to man and the environment, comply with the instructions for use.

Advice on protection against fire and explosion

The product itself does not burn.

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 container tightly closed in a cool, well-ventilated place.

Store in a place accessible by authorized persons only.

Protect against: Heat, Frost. Protect against direct sunlight.

Further information on storage conditions

storage temperature: 10 - 40°C

7.3. Specific end use(s)

Agglomerating agent

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Additional advice on limit values**

Does not contain substances above concentration limits fixing an occupational exposure limit.

8.2. Exposure controls**Appropriate engineering controls**

Provide adequate ventilation as well as local exhaustion at critical locations.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately.

Keep away from food, drink and animal feedingstuffs.

Wash hands before breaks and after work.

Avoid contact with eyes. Avoid contact with skin.

Do not breathe vapour.

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Eye/face protection

Eye glasses with side protection like: DIN EN 166

Hand protection

Neopren

Butyl caoutchouc (butyl rubber)

Wear suitable gloves. DIN EN 374

Breakthrough times and swelling properties of the material must be taken into consideration.

Skin protection

Protective clothing like: DIN EN 13034 Type 6 limited splash-tight

Respiratory protection

In case of inadequate ventilation wear respiratory protection. 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:	colourless
Odour:	odourless

pH-Value (at 20 °C):	4,5	Test method
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Changes in the physical state

Melting point:	0 °C
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Flash point:	not applicable
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Explosive properties

none

Vapour pressure: (at 20 °C)	<23 hPa
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Density (at 20 °C):	1,0 g/cm ³	DIN 51757
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Water solubility:	completely miscible
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Viscosity / dynamic: (at 20 °C)	10 mPa·s
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9.2. Other information

Danger of explosion negative, no explosion

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Frost, Heat, UV-radiation/sunlight

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10.5. Incompatible materials

Oxidising agent

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information
11.1. Information on toxicological effects
Acute toxicity

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

CAS No	Chemical name					
	Exposure route	Dose	Species	Source	Method	
2634-33-5	1,2-Benzisothiazol-3(2H)-one					
	oral	LD50 mg/kg	1450	Rat		
	dermal	LD50 mg/kg	>5000	Rat		

Irritation and corrosivity

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

May cause eye irritation with susceptible persons.

Sensitising effects

Contains 1,2-Benzisothiazol-3(2H)-one. May produce an allergic reaction.

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

Additional ecotoxicological information: No information available.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
2634-33-5	1,2-Benzisothiazol-3(2H)-one					
	Acute fish toxicity	LC50 mg/l	1,3-1,6	96 h	Oncorhynchus mykiss (Rainbow trout)	
	Acute algae toxicity	ErC50 mg/l	0,15	72 h		
	Acute crustacea toxicity	EC50 mg/l	1,5-3,3	48 h	Daphnia magna (Big water flea)	
	Acute bacteria toxicity	(3,3 mg/l)		3 h	Activated sludge	OECD 209

12.2. Persistence and degradability

No data available

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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
2634-33-5	1,2-Benzisothiazol-3(2H)-one			
	OECD 303 A	> 90%		
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

No indication of bioaccumulation potential.

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

Contains: none halogenated hydrocarbons
slightly hazardous to water (WGK 1)
Do not allow to enter into surface water or drains.
Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation.

Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

SECTION 15: Regulatory information

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

National regulatory information

Water contaminating class (D): 1 - slightly water contaminating

Additional information

The product is classified and labelled according to EC directives or corresponding national laws.

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

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SECTION 16: Other information**Relevant H and EUH statements (number and full text)**

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
EUH208	Contains 1,2-Benzisothiazol-3(2H)-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

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.)