

VETROFLOCCULANT flocculant, liquid

Revision date: 04/15/2019

Product code: BO50028331

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1. Identification**Product identifier**

VETROFLOCCULANT flocculant, liquid

Further trade names

VETROFLOCCULANT BO 50028331 / BO50028335

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

Flocculating agent

Uses advised against

No data available

Details of the supplier of the safety data sheet**Manufacturer**

Company name:	BOHLE AG	
Street:	Dieselstr. 10	
Place:	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**

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.

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.

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

Acrylate

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Hazardous components

CAS No	Components			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
2634-33-5	1,2-Benzisothiazol-3(2H)-one			< 0.1 %
	220-120-9	613-088-00-6	01-2120761540-60	
	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.

Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Components	Quantity
	Specific Conc. Limits, M-factors and ATE		
2634-33-5	220-120-9	1,2-Benzisothiazol-3(2H)-one	0.049 %
	dermal: LD50 = >5000 mg/kg; oral: LD50 = 1450 mg/kg Skin Sens. 1; H317: >= 0,05 - 100		

4. First-aid measures
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.

Most important symptoms and effects, both acute and delayed

- No data available

Indication of any immediate medical attention and special treatment needed

- Treat symptomatically.

5. Fire-fighting measures
Extinguishing media
Suitable extinguishing media

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

Unsuitable extinguishing media

- Full water jet

Specific hazards arising from the chemical

- In case of fire may be liberated: Gases/vapors, toxic
- Carbon monoxide

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nitrogen oxides (NOx)

Special protective equipment and precautions for fire-fighters

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

Additional information

Use water spray/stream to protect personnel and to cool endangered containers.

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

Use personal protection equipment.

Environmental precautionsDo not allow to enter into surface water or drains.
Do not allow to enter into soil/subsoil.**Methods and material for containment and cleaning up****Other information**Provide adequate ventilation.
Collect spillage. Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Collect in closed and suitable containers for disposal. Dispose of waste according to applicable legislation.**Reference to other sections**

See section 8. Disposal: see section 13

7. Handling and storage**Precautions for safe handling****Advice on safe handling**Provide adequate ventilation as well as local exhaust 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.**Advice on general occupational hygiene**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.**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 from direct sunlight.**Further information on storage conditions**

storage temperature: 10 - 40°C

Specific end use(s)

Flocculating agent

8. Exposure controls/personal protection

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Control parameters

Additional advice on limit values

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

Exposure controls

Appropriate engineering controls

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

Individual protection measures, such as personal protective equipment

Eye/face protection

Eye glasses with side protection like: EN 166

Hand protection

Neopren

Butyl caoutchouc (butyl rubber)

Wear suitable gloves. EN ISO 374

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

Skin protection

Protective clothing like: 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.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	Liquid
Color:	colorless
Odor:	odorless

Test method

Changes in the physical state

Melting point/freezing point: 0 °C

Flash point: not applicable

Explosive properties

none

pH-Value (at 20 °C): 4,5

Viscosity / dynamic: 10 mPa·s
(at 20 °C)

Water solubility: completely miscible

Vapor pressure: <23 hPa
(at 20 °C)

Density (at 20 °C): 1,0 g/cm³ DIN 51757

Other information

Other safety characteristics

Danger of explosion negative, no explosion

10. Stability and reactivity

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Reactivity

No hazardous reaction when handled and stored according to provisions.

Chemical stability

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

Possibility of hazardous reactions

No known hazardous reactions.

Conditions to avoid

Frost, Heat, UV-radiation/sunlight

Incompatible materials

Oxidising agent

Hazardous decomposition products

Does not decompose when used for intended uses.

11. Toxicological information

Information on toxicological effects

Acute toxicity

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

CAS No	Components				
	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.

Sensitizing 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.

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

Additional ecotoxicological information: No information available.

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CAS No	Components					
	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	(EC50	3,3 mg/l)	3 h	Activated sludge	OECD 209

Persistence and degradability

No data available

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

Bioaccumulative potential

No indication of bioaccumulation potential.

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.

The substance in the mixture does 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.

Other adverse effects

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

13. Disposal considerations
Waste treatment methods
Disposal recommendations

Dispose of waste according to applicable legislation.

Contaminated packaging

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

14. Transport information
Land transport (ADR/RID)
UN proper shipping name:

No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)
UN proper shipping name:

No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

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UN proper shipping name:	No dangerous good in sense of this transport regulation.
Air transport (ICAO-TI/IATA-DGR)	
UN proper shipping name:	No dangerous good in sense of this transport regulation.
Environmental hazards	
ENVIRONMENTALLY HAZARDOUS:	No

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 75

National regulatory information

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

Additional information

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

Chemical Safety Assessment

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

16. Other information**Relevant H statements (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.

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.)