

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Pictogram



Signal word

Warning

Hazard phrases

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

Labelling information

The labelling (EU hazard statements) meets the criteria of annex II of Directive (EC) Nr. 1272/2008 (CLP).

2.3. Other hazards

Frequent contact may lead to skin and eye irritation, especially when dried.

PBT assessment

The product is not considered to be a PBT.

vPvB assessment

The product is not considered to be a vPvB.

Substances

Not applicable. The product is not a substance.

Mixtures

Chemical characterization

Aqueous polymer dispersion based on: maleic acid di-n-butyl ester; contains film-forming agent

SECTION 3: Composition/information on ingredients

CAS/EC/INDEX/REACH no.	Classification (EC) 1272/2008(CLP)	Additional Information	%
2-methylpentane-2,4-diol			
107-41-5	Eye Irrit. 2; H319	<5.00	%-b.w.
203-489-0	Skin Irrit. 2; H315		
603-053-00-3			
-			

CAS/EC/INDEX/REACH no. Classification (EC) 1272/2008(CLP) Additional Information %

1,2-benzisothiazol-3(2H)-one

2634-33-5	Acute Tox. 4*; H302	0.0064	%-b.w.
220-120-9	Eye Dam. 1;H318		
613-088-00-6	Skin Irrit. 2; H315		
-	Skin Sens. 1;H317		
	Acute Tox. 2; H330		
	Aquatic Acute 1; H400		
	Aquatic Chronic 2; H411		

Full Text for all H-phrases and EUH-Phrases: pls. see section 16
 (*, **, ***, ****)Detailed explanation pls. refer to CLP regulation NO. 1272/2008, annex V1, 1.2
 (1) Aberrant from/in addition to the classification set out in annex V1, this substance is classified according to European Regulation (EC) No 1272/2008 (CLP), Article 4 (3), paragraph 2.

Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
-	Skin Sens. 1; H317: c >=0.05%	-	-

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	In case of persisting adverse effects, consult a physician. Remove contaminated, soaked clothing immediately and dispose of safely.
After Inhalation	Remove affected person from the immediate area. Ensure supply of fresh air.
After skin contact	In case of contact with skin wash off immediately with copious amounts of water.
After eye contact	Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.
After ingestion	Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Call a doctor immediately and show label or packaging. Do not induce vomiting without medical advice.

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

No data available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguishing powder; Foam; Water spray jet; Carbon dioxide.

Unsuitable extinguishing media High power water jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂); Combustion products of this material have to be classed invariably as respiratory poison.

5.3. Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Run-off water from firefighting must not be discharged into drains or enter surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. High risk of slipping due to leakage/spillage of product. Avoid contact with skin, eyes and clothing.

For emergency responders No data available. Personal protective equipment (PPE) - see Section 8.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g., sand, kieselguhr, universal binder). Send in suitable containers for recovery or disposal. Contaminated equipment (brushes, rags) must be immediately cleaned with water.

6.4. Reference to other sections

No data available.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling	Provide good ventilation of working area (local exhaust ventilation, if necessary). Product may contain dangerous volatile substances which may accumulate in unventilated barrels or containers. Open container on in well ventilated areas. Do not breathe vapours. During storage over a longer period of time, small quantities of carbon monoxide can be produced. To our current state of knowledge occupational exposure limit values are not exceeded when used as intended. Container or tanks may be inspected/ transferred to inspection only after intensive ventilation in compliance with the respective national regulations and international standards. In case of slightest doubt, measure/check carbon monoxide level.
General protective and hygiene measures	Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately.
Advice on protection against fire and explosion	No special measures necessary.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	Keep container tightly closed and dry in a cool, well-ventilated place. Keep from freezing. Protect from heat and direct sunlight.
Recommended storage temperature	Value 5-35 °C
Requirements for storage rooms and vessels	Store product in closed containers. Always keep in containers of same material as the original one.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

Substance name	CAS no.	EC no.
2-methylpentane-2,4-diol	107-41-5	203-489-0
List of approved workplace exposure limits(WELs) / EH40		
2-methylpentane-2,4-diol		
STEL	123 mg/m ³	25 ml/m ³
TWA	123 mg/m ³	25 ml/m ³

8.2. Exposure controls

Appropriate engineering controls Provide good ventilation of working area (local exhaust ventilation, if necessary).

Personal protective equipment

Respiratory protection If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection Safety glasses with side protection shield (EN 166)

Hand protection Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves. Wear protective gloves from the company KCL or comparable article; where necessary in consultation with glove manufacturer.

Appropriate Material	nitrile	rubber	
Material thickness	0.1	-	0.4 mm
Breakthrough time	>	480 min.	

Other Normal chemical work clothing.

Environmental exposure controls No data available.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form/Colour	liquid white
Odour	sweetish
Odour threshold	No data available.
pH value	3.5 - 5.5
Method	DIN ISO 976
Boiling point and range	100°C
Melting point and range	0°C
Decomposition point and range	No data available.
Flash point	No data available.
Auto-ignition temperature	No data available.
Oxidising properties	No data available.
Explosive properties	No data available.
Flammability (solid, gas)	No data available.
Lower flammability or explosive limits	No data available.
Upper flammability or explosive limits	No data available.
Vapour pressure	
Value	24 hPa
Reference temperature	20 °C
Vapour density	No data available.
Evaporation rate	No data available.
Relative density	No data available.
Density Value	0.95 - 1.1 g/cm ³
Reference Temperature	25 °C
Method	DIN EN ISO 2811-3
Solubility in water	Miscible

Solubility(ies) No data available.
Partition coefficient: No data available.
n-octanol/water

Viscosity

Value 1300 - 2700 mPa's
Reference temperature 25 °C
Type Dynamic
Method Brookf-Visc,RVT Sp.3

9.2. Other information

Other information No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Dangerous reactions are not expected if the product is handled according to its intended use.

10.2. Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3. Possibility of hazardous reactions

None, if handled according to order.

10.4. Conditions to avoid

Keep from freezing. Protect from heat and direct sunlight.

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

None, if handled according to intended use.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Product Name	
b/s/t Gravel Bond	
LD50	> 5000 mg/kg
Species	rat
Method	OECD 401

Acute dermal toxicity	No data available.
Acute inhalational toxicity	No data available.

Skin corrosion/irritation

Product Name	
b/s/t Gravel Bond	
Species	Rabbit
Method	OECD 404
Evaluation	Non-irritant

Serious eye damage/irritation

Product Name	
b/s/t Gravel Bond	
Species	Rabbit eye
Method	OECD 405
Evaluation	Non-irritant

Respiratory or skin sensitization	No data available.
Germ cell mutagenicity	No data available.
Reproduction toxicity	No data available.
Carcinogenicity	No data available.
STOT-single exposure	No data available.
STOT-repeated exposure	No data available.
Aspiration hazard	No data available.
Other information	The toxicological data mentioned are derived from an analogous product.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish (acute)

Product Name	
b/s/t Gravel Bond	
LC50	> 500 mg/l
Duration of exposure	96 h
Species	zebra fish
Method	OECD 203

Toxicity to fish (chronic)	No data available.
Toxicity to Daphnia (acute)	No data available.
Toxicity to Daphnia (chronic)	No data available.
Toxicity to algae (acute)	No data available.
Toxicity to algae (chronic)	No data available.

Bacteria toxicity

Product Name	
b/s/t Gravel Bond	
ECD	appr. 1000 mg/l
Method	OECD 209

12.2. Persistence and degradability

Biodegradability

Product Name	
b/s/t Gravel Bond	
Value	> 80%
Method	OECD 302 B

Physico-chemical eliminability

Product Name	
b/s/t Gravel Bond	
Type	COD decrease
Value	900 mg/g

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

14.4. Other information

No data available.

14.5. Environmental hazards

Information on environmental hazards, if relevant, please see 14.

14.6. Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not relevant

SECTION 15: Regulatory information

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

EU Regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

15.2. Chemical safety assessment

For this mixture a chemical safety assessment has not been carried out

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case. EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case. Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

This information is based on our present state of knowledge and experience.

The security data sheet describes products with a view to the security requirements.

However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.