



## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006  
(amended by Regulation (EU) 2020/878)

**WS.45.D**

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

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

**Use of the Substance/Mixture** Construction coatings

#### 1.3. Details of the supplier of the safety data sheet

**Company/Undertaking Identification** VANORA AG  
Neulandstrasse 3  
CH-6203 Sempach Station  
T +41 41 469 92 13  
www.vanora.ch  
info@vanora.ch

**1.4. Emergency telephone number** +41 41 469 92 13 (Mo - Fr 8:00 - 12:00 / 13:30 - 17:00 MEZ/CET)  
(+41 44 251 51 51 Tox Center)

**Issuing date** 08.04.2021

**Version** 4.1 eu (Previous versions: 4.0 eu)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008** The substance or mixture is not classified.

In accordance with Regulation (EC) No. 1272/2008, the product does not need to be classified nor labelled.

**Additional information** For the full text of the phrases mentioned in this Section, see Section 16.

#### 2.2. Label elements

**Signal Word** -

**Hazard Statements** None.

**Precautionary statements** None.

**Supplemental information** Contains 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

**Product identifier** None.

**2.3. Other hazards** None.

### SECTION 3: Composition/information on ingredients

#### Chemical characterization

Aqueous dispersion based on a copolymer of vinyl versatate and vinyl acetate.

Components		CLP Classification	Product identifier
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	< 0,05%	Acute Tox. 4 H302 (ATE=597mg/kg bw), Skin Irrit. 2 H315, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 [Skin Sens. 1 H317: C ≥ 0,05 %]	CAS-No.: 2634-33-5 EC-No.: 220-120-9 Index-No: 613-088-00-6 REACH No.: BPR
Pyridine-2-thiol 1-oxide, sodium salt	< 0,01%	Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, Eye Irrit. 2 H319, Aquatic Acute 1 H400, Aquatic Chronic 1 H410 M-Factor Acute=100	CAS-No.: 3811-73-2 EC-No.: 223-296-5

For the full text of the phrases mentioned in this Section, see Section 16.

#### Hazardous impurities

None known.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### Inhalation

Move to fresh air in case of accidental inhalation of vapours or decomposition products.

##### Skin contact

Wash off with soap and plenty of water.

##### Eye contact

If easy to do, remove contact lens, if worn. Keep eye wide open while rinsing.

##### Ingestion

Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician for severe cases.

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

None known.

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

None known.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Water spray. Foam. Dry powder. Carbon dioxide (CO<sub>2</sub>).

##### Extinguishing media which must not be used for safety reasons

High volume water jet.

**5.2. Special hazards arising from the substance or mixture** None.

**5.3. Advice for firefighters**

**Special protective equipment for firefighters** Not required.

**Specific methods** No special measures required.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Advice for non-emergency personnel** No special measures required.

**Advice for emergency responders** Handle in accordance with good industrial hygiene and safety practice.

**6.2. Environmental precautions** No special environmental precautions required.

**6.3. Methods and material for containment and cleaning up** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling** No special handling advice required.

**7.2. Conditions for safe storage, including any incompatibilities** Do not freeze.

**7.3. Specific end use(s)** No information available.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Exposure limit(s)** No data is available on the product itself.

**1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (CAS 2634-33-5)**

Germany - DFG - Recommended Exposure Limits - Sensitizers skin sensitizer

**Pyridine-2-thiol 1-oxide, sodium salt (CAS 3811-73-2)**

Switzerland - Occupational Exposure Limits - Developmental Risk Groups Developmental Risk Group C

Switzerland - Occupational Exposure Limits - Skin Notation skin notation

Switzerland - Occupational Exposure Limits - TWAs - (MAKs) 0.2 mg/m<sup>3</sup> TWA [MAK] (inhalable dust)

Switzerland - Occupational Exposure Limits - STELs - (KZWs) 0.4 mg/m<sup>3</sup> STEL [KZW] (inhalable dust)

Austria - Occupational Exposure Limits - STELs - (MAK-KZWs) 4 mg/m<sup>3</sup> STEL [KZW] (4 X 15 min)

Austria - Occupational Exposure Limits - TWAs - (MAK-TMWs) 1 mg/m<sup>3</sup> TWA [TMW]

Denmark - Occupational Exposure Limits - TWAs 1 mg/m<sup>3</sup> TWA

Germany - DFG - Recommended Exposure Limits - TWAs (MAKs) 0.2 mg/m<sup>3</sup> TWA MAK (inhalable fraction)

Germany - DFG - Recommended Exposure Limits - Ceilings (Peak) 0.4 mg/m<sup>3</sup> Peak (inhalable fraction)

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Limitations)	
Germany - DFG - Recommended Exposure Limits - Skin Notation	skin notation
Germany - DFG - Recommended Exposure Limits - Pregnancy	no risk to embryo/fetus if exposure limits adhered to
Germany - TRGS 900 - Occupational Exposure Limits - TWAs (AGWs)	0.2 mg/m <sup>3</sup> TWA AGW (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, inhalable fraction, exposure factor 2)
Slovenia - Occupational Exposure Limits - STELs	2 mg/m <sup>3</sup> STEL (inhalable fraction)
Slovenia - Occupational Exposure Limits - TWAs	1 mg/m <sup>3</sup> TWA (inhalable fraction)

## 8.2. Exposure controls

**Appropriate engineering controls** General industrial hygiene practice.

### Personal protection equipment

*Respiratory protection* No special protective equipment required.

*Hand protection* Impervious gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other.

*Eye protection* Avoid contact with eyes.

*Skin and body protection* No special measures required.

*Thermal hazards* No special measures required.

**Environmental exposure controls** No special measures required.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	Liquid.
<b>Colour</b>	White.
<b>Odour</b>	Characteristic.
<b>Melting point/ freezing point:</b>	No data available.
<b>Boiling point or initial boiling point / range:</b>	No data available.
<b>Flammability:</b>	Not determined.
<b>Lower and upper explosion limit:</b>	Not determined.
<b>Flash point:</b>	does not flash
<b>Auto-ignition temperature:</b>	Not applicable.
<b>Decomposition temperature:</b>	Not determined.
<b>pH:</b>	~3.0
<b>Kinematic viscosity:</b>	~10'000 mPa.s (20°C/68°F)
<b>Solubility:</b>	dispersible (Water)
<b>Partition coefficient n-octanol/water (log value):</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density and/or relative density:</b>	~1.0 g/ml
<b>Relative vapour density:</b>	Not determined.
<b>Particle characteristics:</b>	Not applicable.

### 9.2. Other information

**Other safety characteristics** No information available.

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	No information available.
<b>10.2. Chemical stability</b>	No decomposition if stored and applied as directed.
<b>10.3. Possibility of hazardous reactions</b>	No information available.
<b>10.4. Conditions to avoid</b>	Do not freeze.
<b>10.5. Incompatible materials</b>	None.
<b>10.6. Hazardous decomposition products</b>	None reasonably foreseeable.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

<b>Acute toxicity</b>	None. <b>1,2-benzisothiazol-3(2H)-one (CAS 2634-33-5)</b> LD50/oral 597 mg/kg. <b>Pyridine-2-thiol 1-oxide, sodium salt (CAS 3811-73-2)</b> Dermal LD50 Rabbit = 1800 mg/kg (ECHA_API)
<b>Skin corrosion/irritation</b>	No data available.
<b>Serious eye damage/eye irritation</b>	No data available.
<b>Respiratory / Skin Sensitisation</b>	No data available.
<b>Carcinogenicity</b>	No data available.
<b>Germ cell mutagenicity</b>	No data available.
<b>Reproductive toxicity</b>	No data available.
<b>Specific target organ toxicity (single exposure)</b>	No data available.
<b>Specific target organ toxicity (repeated exposure)</b>	No data available.
<b>Aspiration hazard</b>	No data available.
<b>Human experience</b>	No data available.

### 11.2. Information on other hazards

<b>Other information</b>	No data available.
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## SECTION 12: Ecological information

<b>12.1. Toxicity</b>	Ecological injuries are not known or expected under normal use.
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### 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (CAS 2634-33-5)

EU - Ecolabel (66/2010) - Detergent Ingredient Database - Anaerobic Degradation	Not biodegradable under anaerobic conditions.
EU - Ecolabel (66/2010) - Detergent WS.45.D	Inherently biodegradable according to OECD guidelines.

Ingredient Database - Aerobic  
Degradation

**Pyridine-2-thiol 1-oxide, sodium salt (CAS 3811-73-2)**

Ecotoxicity - Water Flea - Acute Toxicity EC50 48 h water flea 0.022 mg/L  
Data

<b>12.2. Persistence and degradability</b>	No data available.
<b>12.3. Bioaccumulative potential</b>	No data available.
<b>12.4. Mobility in soil</b>	No data available.
<b>12.5. Results of PBT and vPvB assessment</b>	No information available.
<b>12.6. Endocrine disrupting properties</b>	No information available.
<b>12.7. Other adverse effects</b>	No information available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Waste from residues / unused products** Can be burned in a suitable installation subject to local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

**SECTION 14: Transport information**

<b>14.1. UN number or ID number</b>	Not applicable.
<b>14.2. UN proper shipping name</b>	Not applicable.
<b>14.3. Transport hazard class(es)</b>	Not applicable.
<b>14.4. Packing group</b>	Not applicable.
<b>14.5. Environmental hazards</b>	Not applicable.
<b>14.6. Special precautions for user</b>	Not applicable.
<b>14.7. Maritime transport in bulk according to IMO instruments</b>	Not applicable.

**UN Model Regulations**

**ADR/RID** Not regulated.

**IMDG** Not regulated.

**IATA** Not regulated.

**Further Information** Not classified as dangerous in the meaning of transport regulations.

**SECTION 15: Regulatory information**

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

## Regulatory Information

In accordance with Regulation (EC) No. 1272/2008, the product does not need to be classified nor labelled.  
Water contaminating class (WGK Germany) = 1 (AwSV).

### 1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (CAS 2634-33-5)

EU - Biocides (2007/565/EC) - Substances and Product-Types Not to Be Included in Annexes I, IA and IB to Directive 98/8/EC	Product type: 7 Product type: 10 Product type: 22
EU - Biocides (1062/2014) - Annex II Part 1 - Supported Substances	339 Product type 2, 6, 9, 11, 12, 13 (220-120-9)
EU - REACH (1907/2006) - List of Registered Substances	Present
Germany - Water Classification - Substances According to AwSV Classified By or Based on the VwVwS	Reg. no. 5141, hazard class 2 - obviously hazardous to water
<b>Pyridine-2-thiol 1-oxide, sodium salt (CAS 3811-73-2)</b>	
EU - Cosmetics (1223/2009) - Annex II - Prohibited Substances	Prohibited
EU - Biocides (1062/2014) - Annex II Part 1 - Supported Substances	365 Product type 2, 3, 6, 7, 9, 10, 13 (223-296-5)
EU - Biocides (2007/565/EC) - Substances and Product-Types Not to Be Included in Annexes I, IA and IB to Directive 98/8/EC	Product type: 11 Product type: 12
EU - REACH (1907/2006) - List of Registered Substances	Present
Germany - Water Classification - Substances According to AwSV Classified By or Based on the VwVwS	Reg. no. 8138, hazard class 2 - obviously hazardous to water

**15.2. Chemical safety assessment** Not required.

## SECTION 16: Other information

### Revision Note

Safety datasheet sections which have been updated: 3.

### Key or legend to abbreviations and acronyms

CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS)

### Full text of phrases referred to under sections 2 and 3

H302: Harmful if swallowed.  
H312: Harmful in contact with skin.  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H318: Causes serious eye damage.  
H319: Causes serious eye irritation.  
H332: Harmful if inhaled.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.

### Disclaimer

It is not to be considered a warranty or quality specification. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.