



## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006  
(amended by Regulation (EU) 2015/830)

**DAV.4073**

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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** Additive for improving the flow properties and the water resistance

#### 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)

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### 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-benzisothiazolin-3-one . May produce an allergic reaction.

**Product identifier** None.

**2.3. Other hazards** No information available.

### SECTION 3: Composition/information on ingredients

#### Chemical characterization

Aqueous dispersion based on a copolymer of VeoVa and acrylate.

Components		CLP Classification	Product identifier
Ammonia solution	< 0,2%	Skin Corr. 1B H314, STOT SE 3 H335, Aquatic Acute 1 H400, Aquatic Chronic 2 H411	CAS-No.: 1336-21-6 EC-No.: 215-647-6 Index-No: 007-001-01-2 REACH No.: 01-2119488876-14-xxxx
1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one	< 0,1%	Acute Tox. 4 H302, Skin Irrit. 2 H315, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 [SensSk1: 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 warm water and soap.

##### 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. Prevent fire extinguishing water from contaminating surface water or the ground water system.

**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** Do not flush into surface water or sanitary sewer system. 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.

**Ammonia solution (CAS 1336-21-6)**

Finland - Occupational Exposure Limits  
- TWAs 20 ppm TWA  
14 mg/m<sup>3</sup> TWA  
Finland - Occupational Exposure Limits  
- STELs 50 ppm STEL  
36 mg/m<sup>3</sup> STEL

**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 - Skin Notation skin notation  
Switzerland - Occupational Exposure  
Limits - Developmental Risk Groups Developmental Risk Group C  
Switzerland - Occupational Exposure  
Limits - STELs - (KZWs) 0.4 mg/m<sup>3</sup> STEL [KZW] (inhalable dust)  
Switzerland - Occupational Exposure  
Limits - TWAs - (MAKs) 0.2 mg/m<sup>3</sup> TWA [MAK] (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  
1 mg/m<sup>3</sup> TWA [TMW]

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- TWAs - (MAK-TMWs)	
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 - 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)
Germany - DFG - Recommended Exposure Limits - Ceilings (Peak Limitations)	0.4 mg/m <sup>3</sup> Peak (inhalable fraction)
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
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 personal respiratory protective equipment normally 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* Safety glasses with side-shields.

*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>Appearance</b>	Liquid. Viscous.
<b>Colour</b>	Off-white. Transparent.
<b>Odour</b>	Characteristic.
<b>Odour Threshold</b>	Not determined.
<b>pH:</b>	~7.5
<b>Melting point/range:</b>	No data available.
<b>Boiling point/range:</b>	No data available.
<b>Flash point:</b>	does not flash
<b>Evaporation Rate:</b>	Not determined.
<b>Flammability:</b>	Not determined.
<b>Explosion limits:</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Vapor density:</b>	Not determined.
<b>Relative density:</b>	~1.0 g/ml
<b>Water solubility:</b>	dispersible
<b>Partition coefficient (n-octanol/water):</b>	Not determined.
<b>Autoignition temperature:</b>	Not applicable.
<b>Decomposition temperature:</b>	Not determined.

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**Viscosity:** ~500 mPa.s (20°C)  
**Explosive properties:** not hazardous  
**Oxidising properties:** None

## 9.2. Other information

**General Product Characteristics** Total solids content approx. 50 Weight %

## SECTION 10: Stability and reactivity

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

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity** None.  
**Ammonia solution (CAS 1336-21-6)**  
Oral LD50 Rat = 350 mg/kg (NLM\_CIP)  
**1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (CAS 2634-33-5)**  
Oral LD50 Rat = 1020 mg/kg (NZ\_CCID)

**Skin corrosion/irritation** No data available.  
**Serious eye damage/eye irritation** No data available.  
**Respiratory / Skin Sensitisation** No data available.  
**Carcinogenicity** No data available.  
**Germ cell mutagenicity** No data available.  
**Reproductive toxicity** No data available.  
**Specific target organ toxicity (single exposure)** No data available.  
**Specific target organ toxicity (repeated exposure)** No data available.  
**Aspiration hazard** No data available.  
**Human experience** No data available.

## SECTION 12: Ecological information

**12.1. Toxicity** Ecological injuries are not known or expected under normal use.

## Ammonia solution (CAS 1336-21-6)

Ecotoxicity - Freshwater Fish - Acute Toxicity Data	LC50 96 h Pimephales promelas 8.2 mg/L
Ecotoxicity - Water Flea - Acute Toxicity Data	EC50 48 h water flea 0.66 mg/L EC50 48 h Daphnia pulex 0.66 mg/L
<b>1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (CAS 2634-33-5)</b>	
EU - Ecolabel (66/2010) - Detergent Ingredient Database - Aerobic Degradation	Inherently biodegradable according to OECD guidelines.
EU - Ecolabel (66/2010) - Detergent Ingredient Database - Anaerobic Degradation	Not biodegradable under anaerobic conditions.
<b>Pyridine-2-thiol 1-oxide, sodium salt (CAS 3811-73-2)</b>	
Ecotoxicity - Water Flea - Acute Toxicity Data	EC50 48 h water flea 0.022 mg/L
<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. Other adverse effects</b>	No information available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Waste from residues / unused products</b>	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.
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14: Transport information

<b>ADR/RID</b>	Not required.
<b>IMDG</b>	Not required.
<b>IATA</b>	Not required.
<b>Further Information</b>	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

<b>Regulatory Information</b>	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).
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### Ammonia solution (CAS 1336-21-6)

Switzerland - Air Pollution Control - Inorganic Substances - Gases or Vapors	"Category Class 3 (as Ammonia)" As Ammonia compounds [RR-07723-6]
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EU - Cosmetics (1223/2009) - Annex III - Maximum Authorised Concentration	6 % MAC (as NH3)
EU - REACH (1907/2006) - List of Registered Intermediates	Present ([215-647-6])
Germany - Water Classification - Substances According to AwSV Classified By or Based on the VwVwS	Reg. no. 211, hazard class 2 - obviously hazardous to water
<b>1,2-benzisothiazol-3(2H)-one; 1,2-benzisothiazolin-3-one (CAS 2634-33-5)</b>	
Switzerland - Chemical Risk Reduction Ordinance - Prohibited and Restricted Substances	"Use restricted. See annex 1.12 in the regulation" As Benzene compounds [RR-12328-4]
EU - Biocides (1062/2014) - Annex II Part 1 - Supported Substances	339 Product type 2, 6, 9, 11, 12, 13 (220-120-9)
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 - 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 (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 - Biocides (1062/2014) - Annex II Part 1 - Supported Substances	365 Product type 2, 3, 6, 7, 9, 10, 13 (223-296-5)
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: 3,8,12,15,16.

**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.  
H314: Causes severe skin burns and eye damage.  
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.  
H335: May cause respiratory irritation.  
H400: Very toxic to aquatic life.  
H410: Very toxic to aquatic life with long lasting effects.  
H411: Toxic to aquatic life with long lasting effects.

**Disclaimer**

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