



SAFETY DATA SHEET

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

DSV.4116

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 Self-crosslinking binding agent for paints and lacquers

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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Version 6.2 eu (Previous versions: 6.1 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. 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 on acrylate and VeoVa.

Components		CLP Classification	Product identifier
N-(1,1-dimethyl-3-oxobutyl)acrylamide	< 1%	Acute Tox. 4 H302, Repr. 2 H361	CAS-No.: 2873-97-4 EC-No.: 220-713-2 REACH No.: 01-2119962899-11-xxxx
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	< 0.05%	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 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 (CO2).

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.

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 - STELs 50 ppm STEL
36 mg/m³ STEL

Finland - Occupational Exposure Limits - TWAs 20 ppm TWA
14 mg/m³ TWA

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 skin notation

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Limits - Skin Notation	
Switzerland - Occupational Exposure Limits - STELs - (KZGWs)	0.4 mg/m ³ STEL [KZGW] (inhalable dust)
Switzerland - Occupational Exposure Limits - TWAs - (MAKs)	0.2 mg/m ³ TWA [MAK] (inhalable dust)
Austria - Occupational Exposure Limits - STELs - (MAK-KZGWs)	4 mg/m ³ STEL [KZGW] (4 X 15 min)
Austria - Occupational Exposure Limits - TWAs - (MAK-TMWs)	1 mg/m ³ TWA [TMW]
Denmark - Occupational Exposure Limits - TWAs	1 mg/m ³ TWA
Germany - DFG - Recommended Exposure Limits - Ceilings (Peak Limitations)	0.4 mg/m ³ Peak (inhalable fraction)
Germany - DFG - Recommended Exposure Limits - Pregnancy	no risk to embryo/fetus if exposure limits adhered to
Germany - DFG - Recommended Exposure Limits - Skin Notation	skin notation
Germany - DFG - Recommended Exposure Limits - TWAs (MAKs)	0.2 mg/m ³ TWA MAK (inhalable fraction)
Germany - TRGS 900 - Occupational Exposure Limits - TWAs (AGWs)	0.2 mg/m ³ 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 ³ STEL (inhalable fraction)
Slovenia - Occupational Exposure Limits - TWAs	1 mg/m ³ TWA (inhalable fraction)

8.2. Exposure controls

Appropriate engineering controls General industrial hygiene practice.

Personal protection equipment

<i>Respiratory protection</i>	No personal respiratory protective equipment normally required.
<i>Hand protection</i>	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.
<i>Eye protection</i>	Safety glasses with side-shields.
<i>Skin and body protection</i>	No special measures required.
<i>Thermal hazards</i>	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

Physical state	Viscous.
Colour	Off-white. Transparent.
Odour	Characteristic.
Melting point/ freezing point:	No data available.
Boiling point or initial boiling point / range:	No data available.
Flammability:	Not determined.
Lower and upper explosion limit:	Not determined.
Flash point:	does not flash
Auto-ignition temperature:	Not applicable.
Decomposition temperature:	Not determined.
pH:	~7.5

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Kinematic viscosity:	~1'700 mPa.s (20°C)
Solubility:	dispersible (Water)
Partition coefficient n-octanol/water (log value):	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density:	~1.0 g/ml
Relative vapour density:	Not determined.
Particle characteristics:	Not applicable.

9.2. Other information

Other safety characteristics No information available.

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity No data is available on the product itself.
N-(1,1-dimethyl-3-oxobutyl)acrylamide (CAS 2873-97-4)
 Dermal LD50 Rat > 2000 mg/kg (ECHA_API)
 Oral LD50 Rat = 1770 mg/kg (NLM_CIP)
Ammonia solution (CAS 1336-21-6)
 Oral LD50 Rat = 350 mg/kg (NLM_CIP)
1,2-benzisothiazol-3(2H)-one (CAS 2634-33-5)
 LD50/oral 597 mg/kg.
Pyridine-2-thiol 1-oxide, sodium salt (CAS 3811-73-2)
 Dermal LD50 Rabbit = 1800 mg/kg (ECHA_API)

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.

11.2. Information on other hazards

Other information 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

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

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.

EU - Ecolabel (66/2010) - Detergent Ingredient Database - Anaerobic Degradation

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

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

12.2. Persistence and degradability No data available.

12.3. Bioaccumulative potential No data available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment No information available.

12.6. Endocrine disrupting properties No information available.

12.7. Other adverse effects 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

14.1. UN number or ID number Not applicable.

14.2. UN proper shipping name Not applicable.

14.3. Transport hazard class(es) Not applicable.

14.4. Packing group	Not applicable.
14.5. Environmental hazards	Not applicable.
14.6. Special precautions for user	Not applicable.
14.7. Maritime transport in bulk according to IMO instruments	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).

N-(1,1-dimethyl-3-oxobutyl)acrylamide (CAS 2873-97-4)

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. 6602, hazard class 1 - slightly hazardous to water
Ammonia solution (CAS 1336-21-6)
EU - Cosmetics (1223/2009) - Annex III - Conditions of Use and Warnings Contains ammonia. (containing >2% Ammonia)
EU - Cosmetics (1223/2009) - Annex III - Maximum Authorised Concentration 6 % MAC (as NH₃)
EU - REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances Use restricted. See item 75. (B)
Germany - Water Classification - Substances According to AwSV Classified By or Based on the VwVwS Reg. no. 211, hazard class 2 - obviously hazardous to water

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

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) - Annex XVII - Restrictions on Certain Dangerous Substances Use restricted. See item 75.
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

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

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) - Annex XVII - Restrictions on Certain Dangerous Substances	Use restricted. See item 75.
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: 3,11,15,16.
Key or legend to abbreviations and acronyms	CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS) EWC: European Waste catalogue code
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. H361: Suspected of damaging fertility or the unborn child. 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	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.
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