



SAFETY DATA SHEET

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

DKV.4171

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 Resin for stain blocking paint

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 6.1 eu (Previous versions: 6.0 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.

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SECTION 3: Composition/information on ingredients

Chemical characterization

Aqueous dispersion based on a copolymer of VeoVa and acrylate.

Components		CLP Classification	Product identifier
Formic acid	< 1%	Acute Tox. 4 H302 (ATE=811.2mg/kg bw), Acute Tox. 3 H331 (ATE=8.22mg/l (vapour)), Skin Corr. 1B H314	CAS-No.: 64-18-6 EC-No.: 200-579-1 Index-No: 607-001-00-0 REACH No.: 01-2119491174-37-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 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 (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.

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.

Formic acid (CAS 64-18-6)

Norway - Occupational Exposure Limits - TWAs	5 ppm TWA 9 mg/m ³ TWA
Norway - Occupational Exposure Limits - STELs	10 ppm STEL (value calculated) 18 mg/m ³ STEL (value calculated)
Switzerland - Occupational Exposure Limits - Developmental Risk Groups	Developmental Risk Group C
Switzerland - Occupational Exposure Limits - TWAs - (MAKs)	5 ppm TWA [MAK] 9.5 mg/m ³ TWA [MAK]
Switzerland - Occupational Exposure Limits - STELs - (KZWs)	10 ppm STEL [KZW] 19 mg/m ³ STEL [KZW]
United Kingdom - Workplace Exposure Limits (WELs) - STELs	15 ppm STEL (calculated) 28.8 mg/m ³ STEL (calculated)

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United Kingdom - Workplace Exposure Limits (WELs) - TWAs	5 ppm TWA 9.6 mg/m ³ TWA
EU - Occupational Exposure (2006/15/EC) - Second List of Indicative Occupational Exposure Limit Values - TWAs	5 ppm TWA 9 mg/m ³ TWA
Austria - Occupational Exposure Limits - STELs - (MAK-KZWs)	5 ppm STEL [KZW] 9 mg/m ³ STEL [KZW]
Austria - Occupational Exposure Limits - TWAs - (MAK-TMWs)	5 ppm TWA [TMW] 9 mg/m ³ TWA [TMW]
Austria - Occupational Exposure Limits - Ceilings - (MAKs)	5 ppm Ceiling 9 mg/m ³ Ceiling
Belgium - Occupational Exposure Limits - TWAs	5 ppm TWA 9.5 mg/m ³ TWA
Belgium - Occupational Exposure Limits - STELs	10 ppm STEL 19 mg/m ³ STEL
Bulgaria - Occupational Exposure Limits - TWAs	5 ppm TWA 9.0 mg/m ³ TWA
Croatia - Occupational Exposure Limits - TWAs (GVIs)	5 ppm TWA [GVI] 9 mg/m ³ TWA [GVI]
Czech Republic - Occupational Exposure Limits - TWAs	9 mg/m ³ TWA
Czech Republic - Occupational Exposure Limits - Ceilings	18 mg/m ³ Ceiling
Denmark - Occupational Exposure Limits - TWAs	5 ppm TWA 9 mg/m ³ TWA
Estonia - Occupational Exposure Limits - TWAs	5 ppm TWA 9 mg/m ³ TWA
Finland - Occupational Exposure Limits - TWAs	3 ppm TWA 5 mg/m ³ TWA
Finland - Occupational Exposure Limits - STELs	10 ppm STEL 19 mg/m ³ STEL
France - Occupational Exposure Limits - TWAs (VME)	5 ppm TWA [VME] (indicative limit) 9 mg/m ³ TWA [VME] (indicative limit)
Germany - DFG - Recommended Exposure Limits - TWAs (MAKs)	5 ppm TWA MAK 9.5 mg/m ³ TWA MAK
Germany - DFG - Recommended Exposure Limits - Ceilings (Peak Limitations)	10 ppm Peak 19 mg/m ³ Peak
Germany - DFG - Recommended Exposure Limits - Pregnancy	no risk to embryo/fetus if exposure limits adhered to
Germany - TRGS 900 - Occupational Exposure Limits - TWAs (AGWs)	5 ppm TWA AGW (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2) 9.5 mg/m ³ TWA AGW (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2)
Greece - Occupational Exposure Limits - TWAs	5 ppm TWA 9 mg/m ³ TWA
Hungary - Occupational Exposure Limits - TWAs (AKs)	9 mg/m ³ TWA [AK]
Ireland - Occupational Exposure Limits - TWAs	5 ppm TWA 9 mg/m ³ TWA
Ireland - Occupational Exposure Limits - STELs	15 ppm STEL (calculated) 27 mg/m ³ STEL (calculated)
Italy - Occupational Exposure Limits - TWAs	5 ppm TWA Media Ponderata nel Tempo 9 mg/m ³ TWA Media Ponderata nel Tempo
Latvia - Occupational Exposure Limits - TWAs	5 ppm TWA ([548]) 9 mg/m ³ TWA ([548])
Luxembourg - Occupational Exposure Limits - TWAs	5 ppm TWA 9 mg/m ³ TWA
Netherlands - Occupational Exposure Limits - STELs	5 mg/m ³ STEL
Poland - Occupational Exposure Limits - TWAs (NDSs)	5 mg/m ³ TWA [NDS]
Poland - Occupational Exposure Limits - STELs (NDSChs)	15 mg/m ³ STEL [NDSCh]
Portugal - Occupational Exposure Limits - TWAs (VLE-MPs)	5 ppm TWA [VLE-MP] (indicative limit value) 9 mg/m ³ TWA [VLE-MP] (indicative limit value)
Portugal - Occupational Exposure Limits - STELs (VLE-CD)	10 ppm STEL [VLE-CD]

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Limits - STELs (VLE-CDs)	
Romania - Occupational Exposure Limits - TWAs	5 ppm TWA
Slovak Republic - Occupational Exposure Limits - TWAs	9 mg/m ³ TWA
Slovenia - Occupational Exposure Limits - STELs	5 ppm TWA
Slovenia - Occupational Exposure Limits - TWAs	9 mg/m ³ TWA
Spain - Occupational Exposure Limits - TWAs (VLA-EDs)	9.0 mg/m ³ TWA
	10 ppm STEL
	18 mg/m ³ STEL
	5 ppm TWA
	9 mg/m ³ TWA
	5 ppm TWA [VLA-ED] (indicative limit value the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound is prohibited)
	9 mg/m ³ TWA [VLA-ED] (indicative limit value the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound is prohibited)
Sweden - Occupational Exposure Limits - TLVs	3 ppm TLV NGV
Sweden - Occupational Exposure Limits - STELs	5 mg/m ³ TLV NGV
	5 ppm Indicative STEL Vägledande KGV
	9 mg/m ³ Indicative STEL Vägledande KGV
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 ³ TWA [MAK] (inhalable dust)
Switzerland - Occupational Exposure Limits - STELs - (KZWs)	0.4 mg/m ³ STEL [KZW] (inhalable dust)
Austria - Occupational Exposure Limits - STELs - (MAK-KZWs)	4 mg/m ³ STEL [KZW] (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 - TWAs (MAKs)	0.2 mg/m ³ TWA MAK (inhalable fraction)
Germany - DFG - Recommended Exposure Limits - Ceilings (Peak Limitations)	0.4 mg/m ³ 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
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

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 Avoid contact with eyes. Safety glasses with side-shields conforming to EN166.

<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	Liquid.
Colour	White. Slight yellowish.
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:	5
Kinematic viscosity:	1'000 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.
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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	None. Formic acid (CAS 64-18-6) No data is available on the product itself. 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.
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SECTION 12: Ecological information

12.1. Toxicity	Ecological injuries are not known or expected under normal use.
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Formic acid (CAS 64-18-6)
Ecological injuries are not known or expected under normal use.

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 Ingredient Database - Aerobic Degradation Inherently biodegradable according to OECD guidelines.

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.
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12.3. Bioaccumulative potential	No data available.
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12.4. Mobility in soil	No data available.
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12.5. Results of PBT and vPvB assessment	No information available.
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12.6. Endocrine disrupting	No information available.
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properties

12.7. Other adverse effects No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products Can be disposed of as a solid waste or 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).

Formic acid (CAS 64-18-6)

Switzerland - Air Pollution Control - Organic Substances - Gases, Vapors or Particulates Category Class 1

EU - Cosmetics (1223/2009) - Annex V - Preservatives - Maximum Authorised Concentration 0.5 % MAC (as acid)

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: 9

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EU - Plant Protection Products (1107/2009/EC) - Active Substances Not Included in the Annex to Regulation 540/2011/EC	Not included in Annex I to Directive 540/2011/EC
EU - Biocides (1062/2014) - Annex II Part 1 - Supported Substances	037 Product type 2, 3, 4, 5, 6, 11, 12 (200-579-1)
EU - REACH (1907/2006) - List of Registered Substances	Present
EU - REACH (1907/2006) - List of Registered Intermediates	Present ([200-579-1])
Germany - Water Classification - Substances According to AwSV Classified By or Based on the VwVwS	Reg. no. 210, hazard class 1 - slightly hazardous to water
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
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) - 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. 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. H331: Toxic if inhaled. 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.