



SAFETY DATA SHEET

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

DSV.4209

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)

Issuing date 19.10.2021

Version 3.1 eu (Previous versions: 3.0 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 None.

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
2-brom-2-nitroporopan-1,3-diol	< 0.05%	Acute Tox. 4 H312 (ATE=2000mg/kg bw), Skin Irrit. 2 H315, Eye Dam. 1 H318, STOT SE 3 H335, Acute Tox. 3 H301 (ATE=193mg/kg bw), Acute Tox. 3 H331 (ATE=0.6mg/l (vapour)), Aquatic Acute 1 H400, Aquatic Chronic 1 H410 M-Factor Acute=10	CAS-No.: 52-51-7 EC-No.: 200-143-0 Index-No: 603-085-00-8 REACH No.: BPR
Zinkpyrithon	< 0.05%	Acute Tox. 3 H301 (ATE=540mg/kg bw), Acute Tox. 4 H302, Eye Dam. 1 H318, Acute Tox. 2 H330 (ATE=2000mg/l (vapour)), Aquatic Chronic 1 H410, Aquatic Acute 1 H400 M-Factor chronic=10	CAS-No.: 13463-41-7 EC-No.: 236-671-3 REACH No.: 01-2119511196-46-xxxx

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.

Skin contact

Wash off with soap and plenty of water.

Eye contact

If easy to do, remove contact lens, if worn. Immediately flush eye(s) with plenty of water. If eye irritation persists, consult a specialist.

Ingestion

Obtain medical attention.

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. Carbon dioxide (CO₂). Dry chemical.

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 In the event of fire, wear self-contained breathing apparatus.

Specific methods Do not let product enter drains. Water mist may be used to cool closed containers. 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 Keep people away from and upwind of spill/leak. Ensure adequate ventilation.

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

6.2. Environmental precautions Avoid subsoil penetration. Advise water authority if spillage has entered water course or drainage 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). Take up mechanically and collect in suitable container for disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities Keep containers tightly closed in a cool, well-ventilated place.

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.

2-brom-2-nitroporopan-1,3-diol (CAS 52-51-7)

Germany - DFG - Recommended skin sensitizer

Exposure Limits - Sensitizers

Germany - DFG - Recommended skin notation

Exposure Limits - Skin Notation

Zinkpyrithon (CAS 13463-41-7)

Germany - DFG - Recommended skin notation

Exposure Limits - Skin Notation

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8.2. Exposure controls

Appropriate engineering controls	Not required.
Personal protection equipment	
<i>Respiratory protection</i>	No personal respiratory protective equipment normally required.
<i>Hand protection</i>	Wear impervious protective gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
<i>Eye protection</i>	Safety glasses with side-shields conforming to EN166.
<i>Skin and body protection</i>	Lightweight protective clothing.
<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	Off-white.
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:	Not determined.
Auto-ignition temperature:	Not applicable.
Decomposition temperature:	Not determined.
pH:	~7.5
Kinematic viscosity:	Strongly viscous.
Solubility:	Not determined.
Partition coefficient n-octanol/water (log value):	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density:	Not determined.
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	Stable at normal conditions.
10.3. Possibility of hazardous reactions	No information available.
10.4. Conditions to avoid	Do not freeze.
10.5. Incompatible materials	None.

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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) 2-brom-2-nitroporopan-1,3-diol (CAS 52-51-7) Dermal LD50 Rat = 1600 mg/kg (NZ_CCID) Inhalation LC50 Rat > 5 g/m ³ 6 h(NLM_CIP) Oral LD50 Rat = 180 mg/kg (NLM_CIP) Zinkpyrithon (CAS 13463-41-7) Dermal LD50 Rat > 2000 mg/kg (ECHA_API) Inhalation LC50 Rat 0.05 - 0.5 mg/L 4 h(EU_CLH) Oral LD50 Rat = 177 mg/kg (NLM_CIP)
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.

2-brom-2-nitroporopan-1,3-diol (CAS 52-51-7)
Ecological injuries are not known or expected under normal use.

Zinkpyrithon (CAS 13463-41-7)
Ecotoxicity - Avian - Acute Oral Toxicity Data LD50 Colinus virginianus 64 mg/kg (NZ_CCID)

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 Dispose of as special waste in compliance with local and national 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) = 2 (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 Reg. no. 6602, hazard class 1 - slightly hazardous to water
Classified By or Based on the VwVwS

2-brom-2-nitropropan-1,3-diol (CAS 52-51-7)

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TEDX (The Endocrine Disruption Exchange) - Potential Endocrine Disruptors	Present
EU - Cosmetics (1223/2009) - Annex V - Preservatives - Maximum Authorised Concentration	0.1 % MAC
EU - Cosmetics (1223/2009) - Annex V - Preservatives - Other Limitations and Requirements	Avoid formation of nitrosamines
EU - Biocides (1062/2014) - Annex II Part 1 - Supported Substances	009 Product type 2, 6, 9, 11, 12, 22 (200-143-0)
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: 9 (reviewed) Product type: 10
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. 5204, hazard class 2 - obviously hazardous to water
Zinkpyrithon (CAS 13463-41-7)	
EU - Cosmetics (1223/2009) - Annex III - Field of Application and/or Use	Leave-on hair products
EU - Cosmetics (1223/2009) - Annex III - Maximum Authorised Concentration	0.1 % MAC
EU - Cosmetics (1223/2009) - Annex III - Other Limitations and Requirements	For purposes other than inhibiting the development of micro-organisms in the product. This purpose has to be apparent from the presentation of the product
EU - Cosmetics (1223/2009) - Annex V - Preservatives - Maximum Authorised Concentration	1.0 % MAC (hair products) 0.5 % MAC (other products)
EU - Cosmetics (1223/2009) - Annex V - Preservatives - Other Limitations and Requirements	Rinse-off products only. Prohibited for use in oral products
EU - Biocides (1062/2014) - Annex II Part 1 - Supported Substances	522 Product type 2, 6, 7, 9, 10, 21 (236-671-3)
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: 13
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. 7636, hazard class 3 - highly 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	H301: Toxic if swallowed. H302: Harmful if swallowed. H312: Harmful in contact with skin. H315: Causes skin irritation. H318: Causes serious eye damage.

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H330: Fatal if inhaled.
H331: Toxic 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.

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.