

**Safety Data Sheet (1907/2006/EC)**

Material: 60065852

VINNAPAS® ENMX

Revision Date: 02.07.2025 / Version 1.1 (CLP\_VO)

Date of last issue: 01.07.2025

Print Date: 00.00.0000

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Commercial product name:** VINNAPAS® ENMX**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of substance / preparation:

Industrial.

Binder for: non-woven , textile auxiliary agent , paper , adhesives , coating .

All other areas of application to be agreed with the Application Engineering/ Technical Marketing Department of the manufacturer.

**1.3 Details of the supplier of the safety data sheet**

Manufacturer/distributor:	Wacker Chemie AG
Street/POB-No.:	Gisela-Stein-Straße 1
State/postal code/city:	D 81671 München
Telephone:	+49 89 6279-0

Information about the Safety Data Sheet:	Telephone	+49 8677 83-4888
	eMail	WLCP-MSDS@wacker.com

**1.4 Emergency telephone number**

Emergency Information:	Europe	<b>+44 1235 239670</b>
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**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

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

Not a hazardous substance or mixture.

**2.2 Label elements**

Labelling according to Regulation (EC) No. 1272/2008:

No labeling according to GHS required.

Code	Additional Labelling
EUH208	Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.
EUH210	Safety data sheet available on request.

**Biocidal Products Regulation (528/2012)**

Contains a biocide in order to protect the product. Active ingredient: 2-n-butyl-benzo[d]isothiazol-3-one (BBIT), 4299-07-4. Please use treated articles responsibly.

**2.3 Other hazards**

No data available.

Endocrine disrupting properties - human health: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Endocrine disrupting properties - environment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

not applicable

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**3.2 Mixtures****3.2.1 Chemical characteristics**

polymer (dispersion in water) .

**3.2.2 Hazardous ingredients**

1,2-benzisothiazol-3(2H)-one		>=0,0036 – <0,036 %
CAS-No.: 2634-33-5	EC-No.: 220-120-9	Index-No.: 613-088-00-6
INHA	[1]	
Classification according to Regulation (EC) No. 1272/2008*	Aquatic Acute 1 / H400; Eye Dam. 1 / H318; Acute Tox. 2, by inhalation / dust/mist / H330; Skin Irrit. 2 / H315; Aquatic Chronic 1 / H410; Acute Tox. 4, oral / H302; Skin Sens. 1A / H317 M-Factor, Acute = 1 M-Factor, Chronic = 1 <u>specific concentration limit:</u> >= 0,036 %: Skin Sens. 1A / H317 <u>ATE, Oral:</u> 450 mg/kg <u>ATE, inhalation (dust/mist/fume):</u> 0,21 mg/l	

Type: INHA: ingredient, VERU: impurity

[1] = Hazardous or environmentally harmful substance; [2] = substance with a Community workplace exposure limit; [3] = PBT substance; [4] = vPvB substance; [5] = Endocrine disrupting properties

\*For explanation of abbreviations see section 16.

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) in amounts above ≥ 0.1%.

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:**

Under ordinary workplace conditions: No special measures required.

**After contact with the eyes:**

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

**After contact with the skin:**

Wash with plenty of water or water and soap. Seek medical advice in case of continuous irritation.

**After inhalation:**

No special measures required.

**After swallowing:**

In cases of sickness seek medical advice (show label if possible).

**4.2 Most important symptoms and effects, both acute and delayed**

Any relevant information can be found in other parts of this section.

**4.3 Indication of any immediate medical attention and special treatment needed**

Due to its physical properties, may cause mechanical irritation. Product may agglutinate in the gastro-intestinal tract. Medical assistance should be sought. Depending on the symptoms, invasive measures may be necessary. Further toxicology information in section 11 must be observed.

**SECTION 5: Firefighting measures**

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**5.1 Extinguishing media****Suitable extinguishing media:**

not applicable .

**Extinguishing media which must not be used for safety reasons:**

not applicable .

**5.2 Special hazards arising from the substance or mixture**

At low oxygen level: acetic acid.

**5.3 Advice for firefighters****Special protective equipment for fire fighting:**

Use respiratory protection independent of recirculated air.

**General information:**

Product does not burn. Use extinguishing measures appropriate to the source of the fire. Dried up material is combustible.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment (see section 8). If material is released indicate risk of slipping.

**6.2 Environmental precautions**

Prevent material from entering sewers or surface waters. Contain any fluid that runs out using suitable material (e.g. earth).

**6.3 Methods and material for containment and cleaning up**

Take up mechanically and dispose of according to local/state/federal regulations. For small amounts: Absorb with a liquid binding material such as diatomaceous earth and dispose of according to local/state/federal regulations. Contain larger amounts and pump up into suitable containers. Clean up with plenty of water. Dispose of cleansing water in accordance with local/state/federal regulations.

**6.4 Reference to other sections**

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****General information:**

No special protective measures required.

**Precautions for safe handling:**

Spilled substance increases risk of slipping.

**Precautions against fire and explosion:**

No special precautions against fire and explosion required.

**7.2 Conditions for safe storage, including any incompatibilities****Conditions for storage rooms and vessels:**

Protect against frost.

**Advice for storage of incompatible materials:**

not applicable .

**Further information for storage:**

exempt .

**Minimum temperature allowed during storage and transportation: 5 °C**

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**7.3 Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Maximum airborne concentrations at the workplace:**

Substance	Type	mg/m <sup>3</sup>	ppm	Dust fract.	Fibre/m <sup>3</sup>
Aerosol - inhalable fraction		10,0			

The aerosol limit specified is a recommendation should aerosol be formed during processing.

**8.2 Exposure controls****8.2.1 Exposure in the work place limited and controlled****General protection and hygiene measures:**

Do not eat or drink when handling.

**Further information for system design and engineering measures**

No special measures required.

**Personal protection equipment:****Respiratory protection**

No personal respiratory protective equipment normally required.

**Eye protection**

protective goggles, according to acknowledged standards such as EN 166.

**Hand protection**

Use of protective gloves is recommended when handling the material, according to recognized standards such as EN374.

For the choice of suitable gloves, workplace conditions have to be considered, like e.g. handling of other substances and materials.

Recommended glove types: Rubber gloves

**Skin protection**

None required.

**8.2.2 Exposure to the environment limited and controlled**

Prevent material from entering surface waters and soil.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

Property:	Value:	Method:
Physical state.....	liquid	
Colour.....	white	
Odour.....	faint	
Odour Threshold.....	no data available	
Melting point.....	0 °C at 1013 hPa	(Lit.)
Boiling point/boiling range.....	100 °C at 1013 hPa	(Lit.)
Lower explosion limit.....	not applicable	
Upper explosion limit.....	no data available	
Flash point.....	not applicable	
Ignition temperature.....	Not applicable.	
pH.....	3 - 7	(DIN/ISO 976)
Viscosity, kinematic.....	no data available	
Viscosity, dynamic.....	20 - 2000 mPa.s at 23 °C	(DIN EN ISO 2555)

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Water solubility.....: partly soluble  
 Partition coefficient: n-octanol/water .....: no data available  
 Vapour pressure.....: 23 hPa at 20 °C  
 Density.....: 1,05 g/cm<sup>3</sup> (23 °C)

(DIN EN ISO 2811-3)

Relative vapour density.....: no data available  
 Particle Size Distribution .....: No data available.

**9.2 Other information**

No data available.

**Property:****Value:****Method:**

Evaporation rate.....: no data available

Molecular weight.....: not applicable

**SECTION 10: Stability and reactivity****10.1 – 10.3 Reactivity; Chemical stability; Possibility of hazardous reactions**

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

Relevant information can possibly be found in other parts of this section.

**10.4 Conditions to avoid**

None known.

**10.5 Incompatible materials**

None known.

**10.6 Hazardous decomposition products**

If stored and handled properly: none known. Acetic acid at increased temperature.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****11.1.1 Acute toxicity****Product details:**

Exposure routes	Result/Effect
Oral	LD50 > 5000 mg/kg (LD50 cut-off according ATC method) Species: Rat, Method: OECD 423, Source: Conclusion by analogy

**11.1.2 Skin corrosion/irritation****Assessment:**

Based on the available data a clinically relevant skin irritation hazard is not expected.

**Product details:**

No skin irritation (Species: human keratinocytes, Method: OECD 439, Source: Conclusion by analogy)
No skin irritation (Species: Rabbit, Method: OECD 404, Source: Conclusion by analogy)

**11.1.3 Serious eye damage/eye irritation****Assessment:**

Based on the available data a clinically relevant eye irritation hazard is not expected.

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**Product details:**

No eye irritation (Method: OECD 492, Source: Conclusion by analogy)
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No eye irritation (Species: Rabbit, Method: OECD 405, Source: Conclusion by analogy)
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**11.1.4 Respiratory or skin sensitisation****Assessment:**

Based on the available data a sensitization reaction is not expected from this product.

**Product details:**

Exposure routes	Result
Inhalation	No data available.

**11.1.5 Germ cell mutagenicity****Assessment:**

Based on known data a significant mutagenic potential may be excluded.

negative (Test system: mutation assay (in vitro) / bacterial cells, Method: OECD 471, Source: Conclusion by analogy)
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**11.1.6 Carcinogenicity****Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.7 Reproductive toxicity****Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.8 Specific target organ toxicity - single exposure****Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.9 Specific target organ toxicity - repeated exposure****Assessment:**

For this endpoint no toxicological test data is available for the whole product.

**11.1.10 Aspiration hazard****Assessment:**

Based on the physical-chemical properties of the product no aspiration hazard must be expected.

**11.2 Information on other hazards****11.2.1 Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**11.2.2 Further toxicological information**

None known.

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**SECTION 12: Ecological information****12.1 Toxicity****Assessment:**

No expected damaging effects to aquatic organisms. According to current knowledge adverse effects on water purification plants are not expected.

**Product details:**

Result/Effect	Species/Test system	Source
LC50: > 100 mg/l	Oncorhynchus mykiss (rainbow trout) (96 h)	Conclusion by analogy OECD 203
EC50: > 1000 mg/l	Daphnia magna (Water flea) (48 h)	Conclusion by analogy OECD 202
EC10: > 1000 mg/l	activated sludge (0,5 h)	Conclusion by analogy

**12.2 Persistence and degradability****Assessment:**

Polymer component: Not readily biodegradable. Elimination by adsorption to activated sludge. Separation by flocculation is possible.

**12.3 Bioaccumulative potential****Assessment:**

No adverse effects expected.

**12.4 Mobility in soil****Assessment:**

No adverse effects expected.

**12.5 Results of PBT and vPvB assessment**

No data available.

**12.6 Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7 Other adverse effects**

none known

**Additional information**

According to present knowledge no adverse influence to environment expected.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****13.1.1 Material****Recommendation:**

Dispose of according to regulations by incineration in a special waste incinerator. Small quantities may be disposed of by incineration in an approved facility. Observe local/state/federal regulations.

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**13.1.2 Uncleaned packaging**

Recommendation:

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used.  
Observe local/state/federal regulations.

Recommended cleaning agent:  
water

**13.1.3 Waste Disposal Legislation Ref.No.(EC)**

It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

**SECTION 14: Transport information****14.1 UN number or ID number**

ADR .....: Not applicable  
RID .....: Not applicable  
IMDG.....: Not applicable  
ICAO/IATA .....: Not applicable

**14.2 Proper shipping name**

ADR .....: Not applicable  
RID .....: Not applicable  
IMDG.....: Not applicable  
ICAO/IATA .....: Not applicable

**14.3 Transport hazard class**

ADR .....: Not applicable  
RID .....: Not applicable  
IMDG.....: Not applicable  
ICAO/IATA .....: Not applicable

**14.4 Packing group**

ADR .....: Not applicable  
RID .....: Not applicable  
IMDG.....: Not applicable  
ICAO/IATA .....: Not applicable

**14.5 Environmental hazards**

Environmentally hazardous: no

**14.6 Special precautions for user**

Relevant information in other sections has to be considered.

**14.7 Maritime transport in bulk according to IMO instruments**

Bulk transport in tankers is not intended.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

**Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances (Seveso III):**

Not applicable

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**Other specifications, restrictions and prohibitions:**

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - ANNEX I. RESTRICTED EXPLOSIVES PRECURSORS: Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - ANNEX II. REPORTABLE EXPLOSIVES PRECURSORS: Not applicable

**Details of international registration status**

Relevant information about individual substance inventories, where available, is given below.

Japan .....	: <b>ENCS</b> (Handbook of Existing and New Chemical Substances): This product is not listed or in compliance with the substance inventory.
Australia .....	: <b>AiIC</b> (Australian Inventory of Industrial Chemicals): This product is not listed or in compliance with the substance inventory.
China.....	: <b>IECSC</b> (Inventory of Existing Chemical Substances in China): This product is not listed or in compliance with the substance inventory.
Canada .....	: <b>DSL</b> (Domestic Substance List): This product is not listed or in compliance with the substance inventory.
Philippines.....	: <b>PICCS</b> (Philippine Inventory of Chemicals and Chemical Substances): This product is not listed or in compliance with the substance inventory.
United States of America (USA).....	: <b>TSCA</b> (Toxic Substance Control Act Chemical Substance Inventory): This product is not listed or in compliance with the substance inventory.
Taiwan .....	: <b>TCSI</b> (Taiwan Chemical Substance Inventory): This product is not listed or in compliance with the substance inventory.
European Economic Area (EEA).....	: <b>REACH</b> (Regulation (EC) No 1907/2006): General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.
South Korea (Republic of Korea) .....	: <b>AREC</b> (Act on Registration and Evaluation of Chemicals; "K-REACH"): Please approach your regular contact for more detailed information.

**15.2 Chemical safety assessment**

Due to the results of the chemical safety assessment, exposure scenarios and identified uses are not of relevance for this safety data sheet.

**SECTION 16: Other information****16.1 Material**

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.

**16.2 Further information:**

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.

**Key or legend to abbreviations and acronyms used in the safety data sheet**

ABEK - Multi-Range Filter A, B, E, K; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; APF - Assigned Protection Factor; CAS No. - Chemical Abstracts Service Registry Number; DFG - German Research Foundation; DIN - German institute for standardization; DOC - Dissolved Organic Carbon; d/w - days per week; EC / CE / EG - European

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Community; EC50 / CE50 - Median effective concentration; ECHA - European Chemicals Agency; ED - endocrine disruptor; EG-RL - test method according to Regulation 440/2008; EN - European Standard; ERC - Environmental Release Category; g/cm<sup>3</sup> - gram per cubic centimeter; h - hour(s); H-Code - hazard statement code(s); hPa - Hectopascal; IATA Regs - International Air Transport Association (IATA) Dangerous Goods Regulations; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 / CI50 - half maximal inhibitory concentration; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IMDG Code - International Maritime Dangerous Goods Code; ISO - International Organization for Standardization; LC50 / CL50 - medium lethal concentration; LD50 / DL50 - medium lethal dose; LOAEC - Lowest Observed Adverse Effect Concentration; LOAEL - Lowest Observed Adverse Effect Level; MARPOL - International Convention for the Prevention of Marine Pollution from Ships; mg/g - milligrams per gram; mg/kg - milligrams per kilogram; mg/l - milligrams per liter; mg/m<sup>3</sup> - milligrams per cubic meter; min - minutes; mJ - millijoule; mm - millimeter; mm<sup>2</sup>/s - square millimeter per second; mPa.s - Millipascal second(s); MSDS / SDB / SDS - safety data sheet; No Observed Adverse Effect Concentration; NOAEL - No Observed adverse effect level; NOEC - No Observed Effect Concentration; NOEL - No Observed Effect Level; OECD - Organization for Economic Cooperation and Development; PBT - persistent, bioaccumulative, toxic; PC - product category; P-Code - precautionary statement code(s); ppm - parts per million; PROC - process category; RCP - reciprocal calculation-based procedure; RID - convention concerning international carriage by rail; SU - sector of use; SVHC - substance of very high concern; Vol% - volume percent; UN No. - United Nations Dangerous Goods Number; vPvB - very Persistent, very Bioaccumulative

Full text of H-Statements:

Aquatic Acute 1; H400: Short-term (acute) aquatic hazard Category 1; Very toxic to aquatic life.  
Eye Dam. 1; H318.....: Serious eye damage/eye irritation Category 1; Causes serious eye damage.  
Acute Tox. 2; H330 .....: Acute toxicity Category 2; Fatal if inhaled.  
Skin Irrit. 2; H315 .....: Skin corrosion/irritation Category 2; Causes skin irritation.  
Aquatic Chronic 1; H410 : Long-term (chronic) aquatic hazard Category 1; Very toxic to aquatic life with long lasting effects.  
Acute Tox. 4; H302 .....: Acute toxicity Category 4; Harmful if swallowed.  
Skin Sens. 1A; H317 ...: Skin sensitisation Category 1A; May cause an allergic skin reaction.

**- End of Safety Data Sheet -**