

Safety Data Sheet

Material: 71000085

VINNAPAS® 5044 N

Version: 2.9 (US)

Date of print: 07/19/2021

Date of last alteration: 06/25/2021

1. Product and company identification**1.1 Identification of the substance or preparation:****Commercial product name:****VINNAPAS® 5044 N**

Use of substance / preparation

Industrial.

Binder for: Construction products , plasters .

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

1.2 Company/undertaking identification:

Manufacturer/distributor:

Wacker Chemical Corporation
3301 Sutton Road
Adrian, MI 49221-9397
USA

Customer information:

Wacker Chemical Corporation, Polymers Division
3301 Sutton Road
Adrian, Michigan 49221-9397
USA
InfoLine:
Tel (800) 523-9476
Hours of operation:
Monday - Friday, 8 am to 5 pm (eastern standard time)
Corporate website: www.wacker.com

Emergency telephone no. (24h):

(517) 264-8500

Transportation emergency:

(800) 424-9300 (CHEMTREC, USA)
(703) 527-3887 (CHEMTREC, international)

This SDS was prepared by the Regulatory Affairs and Product Safety Department (RAPS) of Wacker Chemical Corporation.

2. Hazards identification**2.1 Classification of the substance or mixture****Classification (GHS):**

Hazard class	Hazard category	Route of exposure	H-Code
Combustible dust	None		None

2.2 Label elements**Labelling (GHS):**

Signal Word: Warning

H-Code	Hazard Statements
None	May form combustible dust concentrations in air.

2.3 Other hazards

Risk of dust explosion.

3. Composition/information on ingredients**3.1 Chemical characterization (preparation)**

Chemical characteristics

Copolymer of vinyl acetate and ethylene with mineral additives and protective colloid

3.2 Information on ingredients:

This material does not contain any ingredients above the permitted limit(s).

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Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in this section are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product. Specific chemical identities and/or exact percentage (concentration) of the composition may have been withheld as a trade secret.

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

4. First-aid measures**4.1 General information:**

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

4.2 After inhalation

If inhaled, remove to fresh air, keep the victim laying down and restful.

4.3 After contact with the skin

If contact with skin, wash skin with plenty of water or with water and soap. Get medical attention if symptoms occur.

4.4 After contact with the eyes

If contact with eyes, immediately flush eyes with plenty of water. Get medical attention if irritation occurs.

4.5 After swallowing

If swallowed, give victim several glasses of water. Get medical attention if symptoms occur. Show label if possible.

5. Fire-fighting measures**5.1 Flammable properties:**

Property:	Value:	Method:
Flash point	not applicable	
Boiling point / boiling range.....	not applicable	
Lower explosion limit (LEL).....	27 - 33 g/m ³	

5.2 Fire and explosion hazards:

Dust may form explosive mixture with air. Electrostatic charging is possible.

5.3 Recommended extinguishing media:

water-spray, water-mist, carbon dioxide, dry chemical or foam-type extinguishing media.

5.4 Unsuitable extinguishing media:

sharp water jet

5.5 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

At low oxygen level: acetic acid.

5.6 Fire fighting procedures:

Fire fighters should wear full protective clothing including a self-contained breathing apparatus.

6. Accidental release measures**6.1 Precautions:**

Avoid dust formation. Do not breathe dust.

HAZWOPER PPE Level: D

6.2 Containment:

Cover any spilled material in accordance with regulations to prevent dispersal by wind.

Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

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6.3 Methods for cleaning up

Take up mechanically and dispose of according to local/state/federal regulations.

6.4 Further information:

Eliminate all sources of ignition. Observe notes under section 7.

7. Handling and storage**7.1 Handling****Precautions for safe handling:**

Avoid dust formation. Increased risk of slipping if substance comes into contact with water.

Precautions against fire and explosion:

Avoid formation of dust - dust may form explosive mixture with air. Avoid dust deposit, remove dust regularly. Take precautionary measures against electrostatic charging. Keep away from open flames, heat and sparks.

7.2 Storage**Conditions for storage rooms and vessels:**

Observe precautionary measures against dust explosion.

Advice for storage of incompatible materials:

not applicable .

Further information for storage:

not applicable .

8. Exposure controls and personal protection**8.1 Engineering controls****Ventilation:**

Use with adequate ventilation.

Local exhaust:

yes (to maintain concentration below TLV)

8.2 Associate substances with specific control parameters such as limit values**Maximum airborne concentrations at the workplace:**

CAS No.	Substance	Type	mg/m ³	ppm	Dust fract.
1332-58-7	Kaolin	OSHA PEL	15.0		Inhalable dust/mist
1332-58-7	Kaolin	OSHA PEL	5.0		Respirable dust/mist
1317-65-3	Calcium carbonate	OSHA PEL	15.0		Inhalable dust/mist
1317-65-3	Calcium carbonate	OSHA PEL	5.0		Respirable dust/mist
	Particulates not otherwise classified (insoluble or poorly soluble)	OSHA PEL	15.0		Inhalable dust/mist
	Particulates not otherwise classified (insoluble or poorly soluble)	OSHA PEL	5.0		Respirable dust/mist
1332-58-7	Kaolin	ACGIH TWA	2.0		Respirable dust/mist
	Particulates not otherwise classified (insoluble or poorly soluble)	ACGIH TWA	10.0		Inhalable dust/mist
	Particulates not otherwise classified (insoluble or poorly soluble)	ACGIH TWA	3.0		Respirable dust/mist

Re Kaolin: The value is for particulate matter containing no asbestos and < 1% crystalline silica (ACGIH).

Re Particulates not otherwise classified: The value is for particulate matter containing no asbestos and < 1% crystalline silica (ACGIH).

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8.3 Personal protection equipment (PPE)**Respiratory protection:**

In case of dust formation use a NIOSH approved respirator for: fine dust .

Hand protection:

Recommendation: rubber gloves .

Eye protection:

Recommendation in case of dust formation: tight fitting chemical safety goggles .

Other protective clothing or equipment:

Recommendation in case of dust formation: antistatic protective clothing and shoes .

8.4 General hygiene and protection measures:

Avoid breathing dust/vapor/mist/gas/aerosol. Do not eat, drink or smoke when handling. Wash thoroughly after handling.

9. Physical and chemical properties**9.1 Appearance**

Physical state.....: solid
 Form.....: powder
 Colour.....: white
 Odour.....: odourless

9.2 Safety parameters

Property:	Value:	Method:
Melting point / melting range.....	not applicable	
Boiling point / boiling range.....	not applicable	
Flash point.....	not applicable	
Lower explosion limit (LEL).....	27 - 33 g/m ³	
Vapour pressure.....	not applicable	
Bulk density.....	400 - 550 kg/m ³	(DIN EN ISO 60)
Water solubility / miscibility.....	partly soluble at 20 °C (68 °F)	
pH-Value.....	7 - 8 at 20 °C (50 %)	
Viscosity (dynamic).....	not applicable	

9.3 Further information

Product forms dispersions with water. The tests on the raised dust were determined in accordance with German VDI 2263, Sheet 1, on the screened product.

Odour limit.....: no data available
 Thermal decomposition.....: > 250 °C (> 482 °F)
 Median particle size.....: 87 µm (original)
 Median particle size.....: 31.6 µm (screened according to German VDI)

disturbed dust

Dust explosion class.....: St1
 Kst value.....: 90 - 115 m*bar/sec (DIN EN 14034-2 (sieved < 63 µm))
 Maximum explosion pressure.....: 6.1 - 7.5 bar
 Ignition temperature.....: 420 °C (788 °F) (DIN EN 50281-2-1 (sieved < 63 µm))
 Minimum ignition energy.....: 300 - 1000 mJ without inductance (DIN EN 13821 (sieved < 63 µm))

deposited dust

Burning behavior.....: 5 at 20 °C (68 °F) (VDI 2263 Blatt 1 (sieved < 200 µm))
 Burning behavior.....: 5 at 100 °C (212 °F) (VDI 2263 Blatt 1 (sieved < 200 µm))
 Glow temperature.....: > 400 °C (> 752 °F) (DIN EN 50281-2-1 (sieved < 200 µm))

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10. Stability and reactivity**10.1 General information:**

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

10.2 Conditions to avoid

None known.

10.3 Materials to avoid

None known.

10.4 Hazardous decomposition products

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

10.5 Further information:

Hazardous polymerization cannot occur.

11. Toxicological information**11.1 Information on toxicological effects****11.1.1 Acute toxicity****Assessment:**

Based on the available data acute toxic effects are not expected after single oral exposure.

Product details:

Route of exposure	Result/Effect	Species/Test system	Source
Oral	LD50: > 2000 mg/kg	Rat	Conclusion by analogy OECD 423

11.1.2 Skin corrosion/irritation**Assessment:**

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

Product details:

Result/Effect	Species/Test system	Source
No skin irritation	Rabbit	Conclusion by analogy OECD 404

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

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

Product details:

Result/Effect	Species/Test system	Source
No eye irritation	Rabbit	Conclusion by analogy OECD 405

11.1.4 Respiratory or skin sensitization**Assessment:**

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

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Product details:

Route of exposure	Result/Effect	Species/Test system	Source
dermal	Does not cause skin sensitisation.	Mouse; Local lymph node assay (LLNA)	Conclusion by analogy OECD 429

11.1.5 Germ cell mutagenicity**Assessment:**

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

Product details:

Result/Effect	Species/Test system	Source
negative	mutation assay (in vitro) bacterial cells	Conclusion by analogy OECD 471

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.

11.1.11 Further toxicological information

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Other information: No information on damage to health during manufacture and use.

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

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EC50: > 100 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 Other adverse effects

none known

12.7 Additional information

According to present knowledge no adverse influence to environment expected.

13. Disposal considerations**13.1 Product disposal****Recommendation:**

Observe local/state/federal regulations.

13.2 Packaging disposal**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

14. Transport information**14.1 US DOT & CANADA TDG SURFACE**

Valuation.....: Not regulated for transport

14.2 Transport by sea IMDG-Code

Valuation.....: Not regulated for transport

14.3 Air transport ICAO-TI/IATA-DGR

Valuation.....: Not regulated for transport

15. Regulatory information**15.1 U.S. Federal regulations****TSCA inventory status and TSCA information:**

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

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TSCA 12(b) Export Notification:

This material does not contain reportable amounts of any TSCA 12(b) listed chemicals.

CERCLA Regulated Chemicals:

This material does not contain any CERCLA regulated chemicals.

SARA 302 EHS Chemicals:

This material does not contain any SARA extremely hazardous substances.

SARA 311/312 Hazard Class:

Combustible dust

SARA 313 Chemicals:

This material does not contain any SARA 313 chemicals above de minimus levels.

HAPS (Hazardous Air Pollutants):

CAS No.	Chemical	Upper limit wt. %
108-05-4	Vinyl acetate	<=0.0099
141-78-6	Ethyl acetate	<=0.0039
50-00-0	Formaldehyde	<=0.0039
75-07-0	Acetaldehyde	<=0.0014
67-56-1	Methanol	<=0.0009

15.2 U.S. State regulations**California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986):**

California Proposition 65 Carcinogens:

14808-60-7	Quartz
50-00-0	Formaldehyde
75-07-0	Acetaldehyde

California Proposition 65 Reproductive Toxins:

67-56-1	Methanol
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Massachusetts Substance List:

1332-58-7	Kaolin
1317-65-3	Calcium carbonate

New Jersey Right-to-Know Hazardous Substance List:

1317-65-3	Calcium carbonate
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Pennsylvania Right-to-Know Hazardous Substance List:

1332-58-7	Kaolin
1317-65-3	Calcium carbonate

15.3 Details of international registration status

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

Japan	ENCS (Handbook of Existing and New Chemical Substances): This product is listed in, or complies with, the substance inventory.
Australia	AiIC (Australian Inventory of Industrial Chemicals): This product is listed in, or complies with, the substance inventory.
China	IECSC (Inventory of Existing Chemical Substances in China): This product is listed in, or complies with, the substance inventory.
Canada	DSL (Domestic Substance List): This product is listed in, or complies with, the substance inventory.
Philippines	PICCS (Philippine Inventory of Chemicals and Chemical Substances): This product is listed in, or complies with, the substance inventory.
United States of America (USA)	TSCA (Toxic Substance Control Act Chemical Substance Inventory): All components of this product are listed as active or are in compliance with the substance inventory.

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Taiwan.....	TCSI (Taiwan Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory. General note: The Taiwanese chemicals regulation requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.
European Economic Area (EEA).....	REACH (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)	AREC (Act on Registration and Evaluation of Chemicals; "K-REACH"): Please approach your regular contact for more detailed information.

16. Other information**16.1 Additional information:**

This Safety Data Sheet (SDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents. This SDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

Vertical lines in the left-hand margin indicate changes compared with the previous version.

16.2 Glossary of Terms:

ACGIH - American Conference of Governmental Industrial Hygienists	ppm - Parts per Million
DOT - Department of Transportation	SARA - Superfund Amendments and Reauthorization Act
hPa - Hectopascals	STEL - Short Term Exposure Limit
mPa*s - Milli Pascal-Seconds	TSCA - Toxic Substances Control Act
OSHA - Occupational Safety and Health Administration	TWA - Time Weighted Average
PEL - Permissible Exposure Limit	WHMIS - Canadian Workplace Hazardous Materials Identification System

Flash point determination methods	Common name
ASTM D56	Tagliabue (Tag) closed cup
ASTM D92, DIN 51376, ISO 2592	Cleveland open cup
ASTM D93, DIN 51758, ISO 2719	Pensky-Martens closed cup
ASTM D3278, DIN 55680, ISO 3679	Setaflash or Rapid closed cup
DIN 51755.....	Abel-Pensky closed cup

16.3 Conversion table:

Pressure:: 1 hPa * 0.75 = 1 mm Hg = 1 torr; 1 bar = 1000 hPa
 Viscosity:.....: 1 mPa*s = 1 centipoise (cP)