

May 26, 2017

JIM BLASIUS  
INCIDE TECHNOLOGIES INC  
50 NORTH 41ST AVE

PHOENIX, AZ. 85009

DEAR JIM BLASIUS,

Enclosed please find the Material Safety Data Sheet (MSDS) for the material listed below. Either you recently purchased this product from us, and/or we are furnishing this MSDS as required by the “Annual Notification Procedures under Section 313 of Title III”.

Product Name: VINNAPAS □ 5044 N (USA)

We thank you for your order and hope we may continue to merit serving your future requirements.

Very truly yours,

*Jigisha Patel*

Jigisha Patel

Manager Technical Information

Brenntag Specialties, Inc.

**WACKER****Safety Data Sheet**

Material: 71000085

VINNAPAS® 5044 N (USA)

Version: 2.1 (US)

Date of print: 03/24/2017

Date of last alteration: 07/08/2015

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

VINNAPAS® 5044 N (USA)

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, Fax (517) 264-4088

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):**

Class	Category	Route of exposure
Combustible Dust	None	

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

Signal Word: Warning

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

P-Code	Precautionary Statements
-	-

**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:**



## Safety Data Sheet

Material: 71000085

VINNAPAS® 5044 N (USA)

Version: 2.1 (US)

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This material does not contain any reportable hazardous ingredients.

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.

### 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).....:	125 g/m <sup>3</sup>	

**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.

**6.3 Methods for cleaning up**

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

**WACKER****Safety Data Sheet**

Material: 71000085

VINNAPAS® 5044 N (USA)

Version: 2.1 (US)

Date of print: 03/24/2017

Date of last alteration: 07/08/2015

**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.	Material	Type	mg/m <sup>3</sup>	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 &lt; 1% crystalline silica (ACGIH).

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

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

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

**WACKER****Safety Data Sheet**

Material: 71000085

VINNAPAS® 5044 N (USA)

Version: 2.1 (US)

Date of print: 03/24/2017

Date of last alteration: 07/08/2015

**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 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 / form.....: solid - powder  
 Colour.....: white to light beige  
 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).....	125 g/m <sup>3</sup>	
Vapour pressure.....	not applicable	
Bulk density.....	400 - 550 kg/m <sup>3</sup>	(DIN EN ISO 60)
Water solubility / miscibility.....	moderately soluble at 20 °C (68 °F)	
pH-Value.....	7 - 8 at 20 °C (68 °F) (500 g/l H <sub>2</sub> O)	
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.

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.....	1	
Kst value.....	6.5 - 8 m <sup>3</sup> bar/sec	
Maximum explosion pressure.....	101 - 129 bar	
Ignition temperature.....	450 °C (842 °F)	(VDI 2263)
Minimum ignition energy.....	300 - 1000 mJ without inductance	(DIN EN 13821 (sieved < 63 µm))

**deposited dust**

Glow temperature.....	> 400 °C (> 752 °F)	(DIN VDE 0165; 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 .

**WACKER****Safety Data Sheet**

Material: 71000085

VINNAPAS® 5044 N (USA)

Version: 2.1 (US)

Date of print: 03/24/2017

Date of last alteration: 07/08/2015

**10.4 Hazardous decomposition products**

If stored and handled properly: none known . At increased temperature: acetic acid .

**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	LD <sub>50</sub> : > 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
not irritating	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
not irritating	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.

**Product details:**

Route of exposure	Result/Effect	Species/Test system	Source
dermal	not sensitizing	mouse; LLNA (local lymph node assay)	Conclusion by analogy OECD 429

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

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

**WACKER****Safety Data Sheet**

Material: 71000085

VINNAPAS® 5044 N (USA)

Version: 2.1 (US)

Date of print: 03/24/2017

Date of last alteration: 07/08/2015

**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
LC <sub>50</sub> : > 100 mg/l	carp (Cyprinus carpio) (96 h)	Conclusion by analogy OECD 203
EC <sub>10</sub> : > 1000 mg/l	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.



## Safety Data Sheet

Material: 71000085

VINNAPAS® 5044 N (USA)

Version: 2.1 (US)

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### 12.3 Bioaccumulative potential

**Assessment:**

No adverse effects expected.

### 12.4 Mobility in soil

**Assessment:**

No adverse effects expected.

### 12.5 Other adverse effects

none known

### 12.6 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.

**TSCA 12(b) Export Notification:**

This material does not contain any TSCA 12(b) regulated 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:**

This product does not present any SARA 311/312 hazards.

**SARA 313 Chemicals:**

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



**WACKER****Safety Data Sheet**

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VINNAPAS® 5044 N (USA)

Version: 2.1 (US)

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**HAPS (Hazardous Air Pollutants):**

CAS No.	Chemical	Upper limit wt. %
108-05-4	Vinyl acetate	<0.02
75-07-0	Acetaldehyde	<0.002
141-78-6	Ethyl acetate	<0.004
67-56-1	Methanol	<0.0016
50-00-0	Formaldehyde	<0.008

**15.2 U.S. State regulations****California Proposition 65 Carcinogens:**

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

**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 Canadian regulations**

This product has been classified in accordance with the Hazard criteria of the CPR and the SDS contains all the information required by the CPR.

**WHMIS Hazard Classes:**

None.

**DSL Status:**

This material or its components are listed on the Canadian Domestic Substances List. This material is in compliance under the 2% Polymer Rule.

**15.4 Details of international registration status**

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

South Korea (Republic of Korea) .....	<b>ECL</b> (Existing Chemicals List): This product is listed in, or complies with, the substance inventory.
Japan .....	<b>ENCS</b> (Handbook of Existing and New Chemical Substances): This product is listed in, or complies with, the substance inventory.
Australia .....	<b>AICS</b> (Australian Inventory of Chemical Substances): This product is listed in, or complies with, the substance inventory.
People's Republic of China .....	<b>IECSC</b> (Inventory of Existing Chemical Substances in China): This product is listed in, or complies with, the substance inventory.
Canada .....	<b>DSL</b> (Domestic Substance List): This product is listed in, or complies with, the substance inventory.
Philippines.....	<b>PICCS</b> (Philippine Inventory of Chemicals and Chemical Substances): This product is listed in, or complies with, the substance inventory.
United States of America (USA).....	<b>TSCA</b> (Toxic Substance Control Act Chemical Substance Inventory): This product is listed in, or complies 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.



## Safety Data Sheet

Material: 71000085

VINNAPAS® 5044 N (USA)

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### 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 product has been classified according to the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by the CPR. 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

<b>Flash point determination methods</b> .....	<b>Common name</b>
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)