

Material Safety Data Sheet

Material Name: VPI 225

ID: SAH00095

VPI MSDS – FLOORING ADHESIVE

*** Section 1 - Chemical Product and Company Identification ***

Material Name: VPI 225

Product Use

Flooring adhesive

Manufacturer Information

USA and Puerto Rico

MAPEI

1144 East Newport Center Drive
Deerfield Beach, FL 33442
Phone: 1-954-246-8888

Canada

MAPEI

2900 Francis-Hughes Avenue
Laval, QC H7L 3J5
Phone: 1-450-662-1212

IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPLOSION, EXPOSURE OR ACCIDENT, CONTACT THE FOLLOWING NUMBERS:

Emergency 24 hour numbers:

(USA) CHEMTREC 1-800-424-9300

(Canada) CANUTEC 1-631-996-6666

*** Section 2 - Hazards Identification ***

Emergency Overview

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication). Irritating to eyes.

Hazard Statements

CAUTION! IRRITANT. Irritating to eyes. Chronic lung disease (silicosis) and/or lung cancer may result from prolonged/repeated breathing of the dust of this material. Wear suitable gloves, eye/face protection, and respiratory protection. Keep out of the reach of children.

Potential Health Effects: Eyes

This product is irritating to the eyes.

Potential Health Effects: Skin

This product may cause irritation to the skin.

Potential Health Effects: Ingestion

Ingestion of this product may cause nausea, vomiting and diarrhea.

Potential Health Effects: Inhalation

This product may cause irritation to the respiratory system. Chronic lung disease (silicosis) and/or lung cancer may result from prolonged/repeated breathing of the dust of this material.

Medical Conditions Aggravated by Exposure

Hypersensitivity to product, allergies, and skin or respiratory disorders

Potential Environmental Effects

None identified.

HMIS Ratings: Health: 1* Fire: 0 Reactivity: 0 Pers. Prot.: Safety glasses, gloves, and N95 respirator if airborne concentrations exceed exposure limits

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
68083-71-6	Vinyl Polymer	30-40
14808-60-7	Silica Sand	10-30
1317-65-3	Limestone	7-13

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65997-05-9	Rosin, polymerized	1-5
67-56-1	Methyl alcohol	0.1-1.0

Component Related Regulatory Information

This product may be regulated, have exposure limits or other information identified as the following: Silica, crystalline (general form).

*** Section 4 - First Aid Measures ***

First Aid: Eyes

In case of contact, immediately flush eyes with large amounts of water, continuing to flush for 15 minutes. If irritation persists get medical attention.

First Aid: Skin

For skin contact, flush with large amounts of water. If irritation persists, get medical attention.

First Aid: Ingestion

For ingestion, flush out mouth with water. If ingestion of a large amount does occur, seek medical attention. Do not induce vomiting.

First Aid: Inhalation

If inhaled, immediately remove the affected person to fresh air. If the affected person is not breathing, apply artificial respiration. If symptoms persist, get medical attention.

First Aid: Notes to Physician

Provide general supportive measures and treat symptomatically.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.

This product is an aqueous mixture which will not burn. If evaporated to dryness, the solid residue may pose a moderate fire hazard.

Hazardous Combustion Products

Irritating and toxic gases or fumes may be released during a fire. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

Extinguishing Media

Dry chemical (preferred), foam, water.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Personal Precautions

Wear appropriate protective equipment and clothing during clean-up.

Containment Procedures

Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps. Scoop up used absorbent into drums or other appropriate container.

Environmental Precautions

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

Clean-Up Procedures

Attempt to reclaim the free product, if this is possible. Shovel the material into waste container. Thoroughly wash the area with water after a spill or leak clean-up. Keep out of the reach of children.

Evacuation Procedures

None identified.

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Special Procedures

Regulations vary. Consult local authorities before disposal.

*** Section 7 - Handling and Storage ***

Handling Procedures

Avoid getting this material into contact with your skin and eyes. Avoid breathing vapors or mists of this product. Wash hands after handling and before eating. Keep out of the reach of children.

Storage Procedures

Store in a cool, dry, well-ventilated area. Store at ambient temperature and atmospheric pressure. Keep out of sun.

*** Section 8 - Exposure Controls / Personal Protection ***

A: Component Exposure Limits

Silica Sand (14808-60-7)

ACGIH:	0.025 mg/m ³ TWA (respirable fraction)
NIOSH:	0.05 mg/m ³ TWA (respirable dust)
Alberta:	Designated substance - requires code of practice (respirable) (related to Silica-crystalline) 0.1 mg/m ³ TWA (respirable particulate)
British Columbia:	ACGIH Category A2 - Suspected Human Carcinogen; IARC Category 1 - Human Carcinogen 0.025 mg/m ³ TWA (respirable)
Manitoba:	0.025 mg/m ³ TWA (respirable fraction)
New Brunswick:	0.1 mg/m ³ TWA (respirable fraction)
NW Territories:	0.1 mg/m ³ TWA (respirable mass); 0.3 mg/m ³ TWA (total mass)
Nova Scotia:	0.025 mg/m ³ TWA (respirable fraction)
Nunavut:	0.1 mg/m ³ TWA (respirable mass); 0.3 mg/m ³ TWA (total mass)
Ontario:	0.10 mg/m ³ TWAEV 0.10 mg/m ³ TWAEV (designated substance regulation)
Quebec:	0.1 mg/m ³ TWAEV (respirable dust)
Saskatchewan:	Present (related to Silica crystalline (respirable size)) 0.05 mg/m ³ TWA (respirable fraction)
Yukon:	300 particles/mL TWA

Limestone (1317-65-3)

OSHA (Final):	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)
NIOSH:	10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust)
Alberta:	10 mg/m ³ TWA
British Columbia:	10 mg/m ³ TWA (total dust); 3 mg/m ³ TWA (respirable fraction) 20 mg/m ³ STEL (total dust)
New Brunswick:	10 mg/m ³ TWA (particulate matter containing no asbestos and < 1% crystalline silica)
NW Territories:	5 mg/m ³ TWA (respirable mass); 10 mg/m ³ TWA (total mass)
Nunavut:	5 mg/m ³ TWA (respirable mass); 10 mg/m ³ TWA (total mass)
Quebec:	10 mg/m ³ TWAEV (total dust, containing no asbestos and less than 1% crystalline silica)
Saskatchewan:	10 mg/m ³ TWA 20 mg/m ³ STEL
Yukon:	30 mppcf TWA; 10 mg/m ³ TWA 20 mg/m ³ STEL

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Methyl alcohol (67-56-1)

ACGIH:	200 ppm TWA 250 ppm STEL Skin - potential significant contribution to overall exposure by the cutaneous route
OSHA (Final):	200 ppm TWA; 260 mg/m ³ TWA
NIOSH:	200 ppm TWA; 260 mg/m ³ TWA 250 ppm STEL; 325 mg/m ³ STEL Potential for dermal absorption
Alberta:	200 ppm TWA; 262 mg/m ³ TWA 250 ppm STEL; 328 mg/m ³ STEL Substance may be readily absorbed through intact skin
British Columbia:	200 ppm TWA 250 ppm STEL Skin notation
Manitoba:	200 ppm TWA 250 ppm STEL
New Brunswick:	200 ppm TWA; 262 mg/m ³ TWA 250 ppm STEL; 328 mg/m ³ STEL Skin - potential for cutaneous absorption
NW Territories:	200 ppm TWA; 262 mg/m ³ TWA 250 ppm STEL; 328 mg/m ³ STEL Skin notation
Nova Scotia:	200 ppm TWA 250 ppm STEL Skin - potential significant contribution to overall exposure by the cutaneous route
Nunavut:	200 ppm TWA; 262 mg/m ³ TWA 250 ppm STEL; 328 mg/m ³ STEL Skin notation
Ontario:	200 ppm TWAEV; 260 mg/m ³ TWAEV 250 ppm STEV; 325 mg/m ³ STEV Absorption through skin, eyes, or mucous membranes
Quebec:	200 ppm TWAEV; 262 mg/m ³ TWAEV 250 ppm STEV; 328 mg/m ³ STEV Skin designation
Saskatchewan:	200 ppm TWA 250 ppm STEL
Yukon:	200 ppm TWA; 260 mg/m ³ TWA 250 ppm STEL; 310 mg/m ³ STEL Skin notation

Engineering Controls

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. Local exhaust is suggested for use, where possible, in enclosed or confined spaces.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear safety glasses with side shields.

Personal Protective Equipment: Skin

The use of nitrile-latex gloves is recommended.

Personal Protective Equipment: Respiratory

Not normally needed. If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

Personal Protective Equipment: General

Launder contaminated clothing before reuse. Use good industrial hygiene practices in handling this material.

*** Section 9 - Physical & Chemical Properties ***

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Appearance:	White paste	Odor:	Slight solvent odor
Physical State:	Paste	pH:	9.0
Vapor Pressure:	N/A	Vapor Density:	N/A
Boiling Point:	>100° C	Melting Point:	N/A
Solubility (H2O):	Dispersible	Specific Gravity:	1.25
Evaporation Rate:	Slower than n-butyl acetate	VOC:	60 g/l
Octanol/H2O Coeff.:	N/A	Flash Point:	N/A
Flash Point Method:	N/A	Upper Flammability Limit (UFL):	N/A
Lower Flammability Limit (LFL):	N/A	Burning Rate:	N/A
Auto Ignition:	N/A		

Physical Properties: Additional Information

The data provided in this section is to be used for product safety handling purposes. Please refer to Product Data Sheets, Certificates of Conformity or Certificates of Analysis for chemical and physical data for determinations of quality and for formulation purposes.

* * * Section 10 - Chemical Stability & Reactivity Information * * *

Chemical Stability

Stable under normal conditions.

Chemical Stability: Conditions to Avoid

Do not freeze.

Incompatibility

This product may react with strong acids, bases and oxidizing agents.

Hazardous Decomposition

Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Upon decomposition, this product may emit fumes of carbon monoxide, carbon dioxide, oxides of nitrogen, and other organic compounds.

Possibility of Hazardous Reactions

Will not occur.

* * * Section 11 - Toxicological Information * * *

Acute Dose Effects

A: General Product Information

No information available for the product.

B: Component Analysis - LD50/LC50

Silica Sand (14808-60-7)

Oral LD50 Rat: 500 mg/kg

Methyl alcohol (67-56-1)

Inhalation LC50 Rat: 83.2 mg/L/4H; Inhalation LC50 Rat:64000 ppm/4H; Oral LD50 Rat:5628 mg/kg; Dermal LD50 Rabbit:15800 mg/kg

Carcinogenicity

A: General Product Information

No information available for the product.

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B: Component Carcinogenicity

Silica Sand (14808-60-7)

ACGIH:	A2 - Suspected Human Carcinogen
NIOSH:	potential occupational carcinogen
NTP:	Known Human Carcinogen (Select Carcinogen)
IARC:	Monograph 68 [1997] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources) (Group 1 (carcinogenic to humans))

Sensitization

No information available for the product.

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

No information available for the product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Methyl alcohol (67-56-1)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	28200 mg/L	[flow-through]
96 Hr LC50 Pimephales promelas	>100 mg/L	[static]
96 Hr LC50 Oncorhynchus mykiss	19500-20700 mg/L	[flow-through]
96 Hr LC50 Oncorhynchus mykiss	18-20 ml/L	[static]
96 Hr LC50 Lepomis macrochirus	13500-17600 mg/L	[flow-through]

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

No additional information available.

B: Component Waste Numbers

Methyl alcohol (67-56-1)

RCRA: waste number U154 (Ignitable waste)

Disposal Instructions

Waste must be handled in accordance with all federal, state, provincial, and local regulations. Consult authorities before disposal.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

*** Section 14 - Transportation Information ***

International Transportation Regulations

Not regulated as dangerous goods.

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

All components are on the U.S. EPA TSCA Inventory List. All components of this product are included, or are exempt from inclusion, in the Canadian Domestic Substance List unless otherwise noted.

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B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Methyl alcohol (67-56-1)

CERCLA: 5000 lb final RQ; 2270 kg final RQ

State Regulations

A: General Product Information

Other state regulations may apply. Check individual state requirements.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Silica Sand	14808-60-7	No	Yes	Yes	Yes	Yes	Yes
Limestone	1317-65-3	No	Yes	Yes	Yes	Yes	Yes
Methyl alcohol	67-56-1	Yes	Yes	Yes	Yes	Yes	Yes

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

Canadian WHMIS Information

A: General Product Information



B: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Silica Sand	14808-60-7	1 %

Additional Regulatory Information

A: General Product Information

Supplier(s) of proprietary component(s) state that these components are contained on the TSCA inventory.

B: Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
2-Butenedioic acid (Z)-, dioctyl ester, polymer with butyl 2-propenoate and ethenyl acetate	68083-71-6	Yes	NDSL	No
Silica Sand	14808-60-7	Yes	DSL	EINECS
Limestone	1317-65-3	Yes	NDSL	EINECS
Rosin, polymerized	65997-05-9	Yes	DSL	No
Methyl alcohol	67-56-1	Yes	DSL	EINECS

*** Section 16 - Other Information ***

Other Information

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

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Key/Legend

NA = Not available or Not Applicable. ACGIH = American Conference of Governmental Industrial Hygienists. NFPA = National Fire Protection Association. EPA = Environmental Protection Agency; TSCA = Toxic Substance Control Act; ACGIH = American Conference of Governmental Industrial Hygienists; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration., NJTSR = New Jersey Trade Secret Registry.

End of Sheet SAH00094