



# Material Safety Data Sheet

Material Name: Keracaulk S

ID: SAH00212

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

**Material Name:** Keracaulk S

**Product Use**

Sealer

**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). This product is irritating to the 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. Symptoms can include irritation, redness, scratching of the cornea, and tearing.

**Potential Health Effects: Skin**

This product may cause irritation to the skin. Prolonged and/or repeated skin contact may result in mild irritation or redness.

**Potential Health Effects: Ingestion**

Ingestion of this product is unlikely. However, ingestion of product may produce gastrointestinal irritation and disturbances.

**Potential Health Effects: Inhalation**

This product may be harmful by inhalation. 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: 1 Reactivity: 0 Pers. Prot.:** Safety glasses, gloves, NIOSH 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
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1317-65-3	Limestone	10-30
Proprietary	Acrylic polymer	10-30
14808-60-7	Silica Sand	10-30
85-68-7	Butyl benzyl phthalate	5-10
13463-67-7	Titanium dioxide	1-5
64742-88-7	Solvent naphtha (petroleum), medium aliphatic	0.1-1.0

## \*\*\* 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.

Not a fire hazard. 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 clothing including self contained breathing apparatus.

### NFPA Ratings: Health: 1 Fire: 1 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

Contain the discharged material.

### 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. Thoroughly wash the area with water after a spill or leak clean-up. Wear appropriate protective equipment and clothing during clean-up. Keep out of the reach of children.

### Evacuation Procedures

None identified.

### Special Procedures

Regulations vary. Consult local authorities before disposal.

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## \*\*\* Section 7 - Handling and Storage \*\*\*

### Handling Procedures

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

### Storage Procedures

Store in a cool, dry, well-ventilated area. Keep the container tightly closed. Do not freeze.

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

### A: Component Exposure Limits

#### Limestone (1317-65-3)

OSHA (Final):	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction)
NIOSH:	10 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable dust)
Alberta:	10 mg/m3 TWA
British Columbia:	10 mg/m3 TWA (total dust); 3 mg/m3 TWA (respirable fraction) 20 mg/m3 STEL (total dust)
New Brunswick:	10 mg/m3 TWA (particulate matter containing no asbestos and < 1% crystalline silica)
NW Territories:	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)
Nunavut:	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)
Quebec:	10 mg/m3 TWAEV (total dust, containing no asbestos and less than 1% crystalline silica)
Saskatchewan:	10 mg/m3 TWA 20 mg/m3 STEL
Yukon:	30 mppcf TWA; 10 mg/m3 TWA 20 mg/m3 STEL

#### Silica Sand (14808-60-7)

ACGIH:	0.025 mg/m3 TWA (respirable fraction)
NIOSH:	0.05 mg/m3 TWA (respirable dust)
Alberta:	0.1 mg/m3 TWA (respirable particulate)
British Columbia:	ACGIH Category A2 - Suspected Human Carcinogen; IARC Category 1 - Human Carcinogen 0.025 mg/m3 TWA (respirable)
Manitoba:	0.025 mg/m3 TWA (respirable fraction)
New Brunswick:	0.1 mg/m3 TWA (respirable fraction)
NW Territories:	0.1 mg/m3 TWA (respirable mass); 0.3 mg/m3 TWA (total mass)
Nova Scotia:	0.025 mg/m3 TWA (respirable fraction)
Nunavut:	0.1 mg/m3 TWA (respirable mass); 0.3 mg/m3 TWA (total mass)
Ontario:	0.10 mg/m3 TWAEV 0.10 mg/m3 TWAEV (designated substance regulation)
Quebec:	0.1 mg/m3 TWAEV (respirable dust)
Saskatchewan:	0.05 mg/m3 TWA (respirable fraction)
Yukon:	300 particles/mL TWA

#### Titanium dioxide (13463-67-7)

ACGIH:	10 mg/m3 TWA
OSHA (Final):	15 mg/m3 TWA (total dust)
Alberta:	10 mg/m3 TWA
British Columbia:	IARC Category 2B - Possible Human Carcinogen 10 mg/m3 TWA (total dust); 3 mg/m3 TWA (respirable fraction)
Manitoba:	10 mg/m3 TWA
New Brunswick:	10 mg/m3 TWA
NW Territories:	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)
Nova Scotia:	10 mg/m3 TWA
Nunavut:	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass)
Ontario:	10 mg/m3 TWAEV (total dust)
Quebec:	10 mg/m3 TWAEV (total dust, containing no asbestos and less than 1% crystalline silica)
Saskatchewan:	10 mg/m3 TWA 20 mg/m3 STEL
Yukon:	30 mppcf TWA; 10 mg/m3 TWA 20 mg/m3 STEL

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**Solvent naphtha (petroleum), medium aliphatic (64742-88-7)**

Ontario: 525 mg/m3 TWAEV (140°C Flash aliphatic solvent)

## Engineering Controls

Use general ventilation.

## 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

If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

### Personal Protective Equipment: General

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

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

<b>Appearance:</b>	Paste	<b>Odor:</b>	Slight acrylic odor
<b>Physical State:</b>	Paste	<b>pH:</b>	7.5 - 7.9
<b>Vapor Pressure:</b>	N/A	<b>Vapor Density:</b>	>1
<b>Boiling Point:</b>	N/A	<b>Melting Point:</b>	N/A
<b>Solubility (H2O):</b>	Soluble	<b>Specific Gravity:</b>	1.6 - 1.65
<b>Evaporation Rate:</b>	>1	<b>VOC:</b>	41 g/L
<b>Percent Volatile:</b>	16 - 18	<b>Octanol/H2O Coeff.:</b>	N/A
<b>Flash Point:</b>	>200° F	<b>Flash Point Method:</b>	TOC
<b>Upper Flammability Limit (UFL):</b>	N/A	<b>Lower Flammability Limit (LFL):</b>	N/A
<b>Burning Rate:</b>	N/A	<b>Auto Ignition:</b>	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. Keep away from heat, ignition sources and incompatible materials.

### 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.

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## B: Component Analysis - LD50/LC50

### Silica Sand (14808-60-7)

Oral LD50 Rat: 500 mg/kg

### Butyl benzyl phthalate (85-68-7)

Inhalation LC50 Rat: >6.7 mg/L/4H; Oral LD50 Rat:2330 mg/kg; Dermal LD50 Rat:6700 mg/kg

### Titanium dioxide (13463-67-7)

Oral LD50 Rat: >10000 mg/kg

### Solvent naphtha (petroleum), medium aliphatic (64742-88-7)

Inhalation LC50 Rat: >5.28 mg/L/4H; Oral LD50 Rat:>5000 mg/kg; Dermal LD50 Rabbit:3000 mg/kg

## Carcinogenicity

### A: General Product Information

Exposure to quartz (the most stable and common form of crystalline silica) is responsible for the majority of clinically diagnosed silicosis. Silicosis is a fibronodular lung disease that occurs after occupational exposure to crystalline silica for 5 years or longer. Inhalation of quartz dusts may cause shortness of breath, limitation of chest expansion, dry cough, and a lessened capacity for work. Individuals with a pre-existing disease in, or a history of ailments involving the skin or respiratory tract, are at a greater risk of developing adverse health effects when exposed to this material.

### 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))

#### Butyl benzyl phthalate (85-68-7)

IARC:	Monograph 73 [1999]; Supplement 7 [1987] (Group 3 (not classifiable))
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#### Titanium dioxide (13463-67-7)

ACGIH:	A4 - Not Classifiable as a Human Carcinogen
NIOSH:	potential occupational carcinogen
IARC:	Monograph 93 [in preparation]; Monograph 47 [1989] (Group 2B (possibly 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

#### Butyl benzyl phthalate (85-68-7)

Test & Species		Conditions
96 Hr LC50 Oncorhynchus mykiss	1.0-10.0 mg/L	[static]
96 Hr LC50 Oncorhynchus mykiss	0.82 mg/L	[flow-through]
96 Hr LC50 Pimephales promelas	1.39-3.88 mg/L	[flow-through]
96 Hr LC50 Pimephales promelas	>0.78 mg/L	[static]
96 Hr LC50 Lepomis macrochirus	1.0-10.0 mg/L	[static]

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96 Hr EC50 Selenastrum capricornutum, Skeletonema costatum	0.1 mg/L	
48 Hr EC50 water flea	3.0 mg/L	[Static]
48 Hr EC50 Daphnia magna	0.97 mg/L	

## Solvent naphtha (petroleum), medium aliphatic (64742-88-7)

Test & Species		Conditions
96 Hr LC50 Pimephales promelas	800 mg/L	[static]
96 Hr EC50 Selenastrum capricornutum	450 mg/L	

### \*\*\* Section 13 - Disposal Considerations \*\*\*

#### US EPA Waste Number & Descriptions

##### A: General Product Information

No additional information available.

##### B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

#### 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.

##### 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).

##### Butyl benzyl phthalate (85-68-7)

CERCLA:	100 lb final RQ; 45.4 kg final RQ
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#### 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
Limestone	1317-65-3	No	Yes	Yes	Yes	Yes	Yes
Silica Sand	14808-60-7	No	Yes	Yes	Yes	Yes	Yes
Butyl benzyl phthalate	85-68-7	Yes	Yes	No	Yes	Yes	No
Titanium dioxide	13463-67-7	No	Yes	Yes	Yes	Yes	Yes
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	No	No	No	Yes	No	No

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

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

## Canadian WHMIS Information

### A: General Product Information

Not regulated

### 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 %
Butyl benzyl phthalate	85-68-7	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
Limestone	1317-65-3	Yes	NDSL	EINECS
Silica Sand	14808-60-7	Yes	DSL	EINECS
Butyl benzyl phthalate	85-68-7	Yes	DSL	EINECS
Titanium dioxide	13463-67-7	Yes	DSL	EINECS
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	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.

### 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.

**Contact:** Product Safety Specialist

**Contact Phone:** 1-954-246-8888

End of Sheet SAH00212