



Material Safety Data Sheet

Material Name: Adhesive and Grout

ID: NDM0002

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

Material Name: Adhesive and Grout

Product Use

Adhesive and Grout for Tile

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 has been evaluated using criteria specified in 29CFR 1910.1200 (Hazard Communication Standard). Irritating to eyes. Harmful by inhalation.

Hazard Statements

CAUTION! Irritating to eyes. Harmful by inhalation. Chronic lung disease (silicosis) and/or lung cancer may result from prolonged/repeated breathing of the dust of this material. Wear suitable gloves and eye/face 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. Mechanical rubbing may increase skin irritation.

Potential Health Effects: Ingestion

This product may be harmful if it is swallowed. Ingestion of this product may cause nausea, vomiting and diarrhea.

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. Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract.

Medical Conditions Aggravated by Exposure

Hypersensitivity to product, allergies, and skin or respiratory disorders

Potential Environmental Effects

None identified.

HMS Ratings: Health: 1* Fire: 0 Reactivity: 0 Pers. Prot.: gloves, safety glasses

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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14808-60-7	Silica Sand (Quartz)	30-60
1317-65-3	Limestone	10-30
Proprietary	Styrene Acrylic Copolymer	10-30
13463-67-7	Titanium dioxide	3-7
1327-36-2	Aluminum silicate	1-5
Proprietary	Acrylic copolymer	1-5

Component Related Regulatory Information

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

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

First Aid: Eyes

Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.

First Aid: Skin

For skin contact, wash immediately with soap and 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 slight 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.

Specific Hazards Arising From the Chemical

None identified.

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

Avoid the generation of dusts during clean-up. 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.

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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. Wear appropriate protective equipment and clothing during clean-up.

Evacuation Procedures

None identified.

Special Procedures

Wear a dust mask if dust is generated above exposure limits.

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

Handling Procedures

Avoid getting this material into contact with your eyes. Avoid prolonged or repeated skin contact with this material. Wash thoroughly after handling. Do not breathe dust from this material.

Storage Procedures

Keep this material in a cool place. Keep the container tightly closed. Do not freeze.

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

A: Component Exposure Limits

Quartz (14808-60-7)

ACGIH:	0.025 mg/m3 TWA (respirable fraction)
OSHA	0.1 mg/m3 TWA (respirable dust)
(Vacated):	
NIOSH:	0.05 mg/m3 TWA (respirable dust)
Alberta:	Designated substance - requires code of practice (respirable) (related to Silica-crystalline) 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:	Present (related to Silica crystalline (respirable size))
n:	0.05 mg/m3 TWA (respirable fraction)
Yukon:	300 particles/mL TWA

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Limestone (1317-65-3)

OSHA 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)
(Final):
OSHA 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)
(Vacated):
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)
Columbia: 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
n: 20 mg/m³ STEL
Yukon: 30 mppcf TWA; 10 mg/m³ TWA
20 mg/m³ STEL

Titanium dioxide (13463-67-7)

ACGIH: 10 mg/m³ TWA
OSHA 15 mg/m³ TWA (total dust)
(Final):
OSHA 10 mg/m³ TWA (total dust)
(Vacated):
Alberta: 10 mg/m³ TWA
British Columbia: IARC Category 2B - Possible Human Carcinogen
Columbia: 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
n: 20 mg/m³ STEL
Yukon: 30 mppcf TWA; 10 mg/m³ TWA
20 mg/m³ STEL

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.

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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 ***

Appearance:	Flowable semi solid	Odor:	Mild acrylic odor
Physical State:	Paste	pH:	N/A
Vapor Pressure:	N/A	Vapor Density:	N/A
Boiling Point:	N/A	Melting Point:	N/A
Solubility (H2O):	N/A	Specific Gravity:	1.3-2.5
Evaporation Rate:	N/A	VOC:	51 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

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 emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

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

Quartz (14808-60-7)

Oral LD50 Rat: 500 mg/kg

Titanium dioxide (13463-67-7)

Oral LD50 Rat: >10000 mg/kg

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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

Quartz (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))

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

No ecotoxicity data are available for this product's components.

* * * 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.

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B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

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
Quartz	14808-60-7	No	Yes	Yes	Yes	Yes	Yes
Limestone	1317-65-3	No	Yes	Yes	Yes	Yes	Yes
Titanium dioxide	13463-67-7	No	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
Quartz	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.

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B: Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Quartz	14808-60-7	Yes	DSL	EINECS
Limestone	1317-65-3	Yes	NDSL	EINECS
Styrene Acrylic Copolymer	Proprietary	Yes	DSL	No
Titanium dioxide	13463-67-7	Yes	DSL	EINECS
Aluminum silicate	1327-36-2	Yes	DSL	EINECS
Acrylic Copolymer	Proprietary	Yes	DSL	No

* * * 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. The information herein is presented in good faith and believed to be accurate as of the effective date given. However, no warranty, expressed or implied, is given. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

Key/Legend

NA = Not available or Not Applicable. BLV=Biological Limit Values TLV = Threshold Limit Value. NFPA = National Fire Protection Association. HMIS = Hazardous Material Information System. CFR = Code of Federal Regulations. 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: MAPEI

Contact Phone: 1-800-42-MAPEI

End of Sheet NDM0002