Material Safety Data Sheet

Material Name: Premixed Grout

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

Material Name: Premixed Grout
Product Use: Grout

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. Harmful if swallowed.

Hazard Statements
CAUTION! IRRITANT. This product is irritating to the eyes. Harmful if swallowed. 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. 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.

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

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Component</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>14808-60-7</td>
<td>Silica Sand</td>
<td>60-100</td>
</tr>
<tr>
<td>25586-20-3</td>
<td>Styrene Acrylic Copolymer</td>
<td>10-30</td>
</tr>
<tr>
<td>1327-36-2</td>
<td>Aluminum silicate</td>
<td>1-5</td>
</tr>
</tbody>
</table>
**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.

**Unsuitable Extinguishing Media**
None identified.

**Specific Hazards Arising From the Chemical**
None identified.

**Fire Fighting Equipment/Instructions**
Firefighters should wear full protective gear.

**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.
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 ***

Exposure Guidelines
A: General Product Information
Keep formation of dusts, particulates and fumes to a minimum.

B: Component Exposure Limits
Silica Sand (14808-60-7)
- ACGIH: 0.025 mg/m3 TWA (respirable fraction)
- 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))
  - 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  
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 TWA (total dust)  
Quebec: 10 mg/m³ TWA (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

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  
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 **

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Beige paste</td>
</tr>
<tr>
<td>Physical State</td>
<td>Paste</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility (H₂O)</td>
<td>N/A</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>N/A</td>
</tr>
<tr>
<td>Octanol/H₂O Coeff.</td>
<td>N/A</td>
</tr>
<tr>
<td>Flash Point Method</td>
<td>N/A</td>
</tr>
<tr>
<td>Lower Flammability Limit (LFL):</td>
<td>N/A</td>
</tr>
<tr>
<td>Auto Ignition</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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

- **Titanium dioxide (13463-67-7)**
  - Oral LD50 Rat: >10000 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. There may be a relationship between silicosis and certain cancers.

**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))

- **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.
B: Component Analysis
   None of this product's 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:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
<th>RI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica Sand</td>
<td>14808-60-7</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

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.
Material Safety Data Sheet

Material Name: Premixed Grout
ID: SAH00097

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:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>Minimum Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica Sand</td>
<td>14808-60-7</td>
<td>1 %</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>TSCA</th>
<th>CAN</th>
<th>EEC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica Sand</td>
<td>14808-60-7</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
<tr>
<td>Styrene Acrylic Copolymer</td>
<td>25586-20-3</td>
<td>Yes</td>
<td>DSL</td>
<td>No</td>
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<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
</tbody>
</table>

*** 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.

End of Sheet SAH00097