Material Safety Data Sheet

Material Name: PREMIUM MORTAR

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

Material Name: PREMIUM MORTAR

Product Use
Premium premixed mortar

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.

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 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. Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract. Chronic lung disease (silicosis) and/or lung cancer may result from prolonged/repeated breathing of the dust of this material. Excess cases of scleroderma, connective tissue disorders, lupus, rheumatoid arthritis, chronic kidney diseases and end-stage kidney disease as well as chronic bronchitis and emphysema have also been found in workers exposed to respirable crystalline silica.

Medical Conditions Aggravated by Exposure
Hypersensitivity to product, allergies, and skin or respiratory disorders
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ID: NDM0004

Potential Environmental Effects
No information available for the product.

HMIS 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 ***

<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>15-40</td>
</tr>
<tr>
<td>1317-65-3</td>
<td>Limestone</td>
<td>10-30</td>
</tr>
<tr>
<td>25586-20-3</td>
<td>Styrene acrylic polymer</td>
<td>7-13</td>
</tr>
</tbody>
</table>

*** 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
Flush with large amounts of water. If irritation persists, get medical attention.

First Aid: Ingestion
Flush out mouth with water. If ingestion of a large amount does occur, seek medical attention. Do not induce vomiting.

First Aid: Inhalation
Immediately remove the affected person to fresh air. 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.

**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

<table>
<thead>
<tr>
<th>Material</th>
<th>ACGIH:</th>
<th>OSHA:</th>
<th>NIOSH:</th>
<th>Alberta:</th>
<th>British Columbia:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica Sand (14808-60-7)</td>
<td>0.025 mg/m³ TWA</td>
<td>0.1 mg/m³ TWA</td>
<td>0.05 mg/m³ TWA</td>
<td>0.025 mg/m³ TWA</td>
<td>ACGIH Category A2</td>
</tr>
<tr>
<td></td>
<td>(respirable fraction)</td>
<td>(respirable dust)</td>
<td>(respirable dust)</td>
<td>(respirable particulate)</td>
<td>- Suspected Human Carcinogen; IARC Category 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.025 mg/m³ TWA (respirable)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Manitoba: 0.025 mg/m³ TWA (respirable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>New Brunswick: 0.1 mg/m³ TWA (respirable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>NW Territories: 0.1 mg/m³ TWA (respirable mass); 0.3 mg/m³ TWA (total mass)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Nova Scotia: 0.025 mg/m³ TWA (respirable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Nunavut: 0.1 mg/m³ TWA (respirable mass); 0.3 mg/m³ TWA (total mass)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Ontario: 0.10 mg/m³ TWA-EV</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>0.10 mg/m³ TWA-EV (designated substance regulation)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Quebec: 0.1 mg/m³ TWA-EV (respirable dust)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Saskatchewan: 0.05 mg/m³ TWA (respirable fraction)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Yukon: 300 particles/mL TWA</td>
</tr>
</tbody>
</table>

ACGIH: American Conference of Governmental Industrial Hygienists
OSHA: Occupational Safety and Health Administration
NIOSH: National Institute for Occupational Safety and Health
Alberta: Alberta Occupational Health and Safety
British Columbia: British Columbia Centre for Disease Control
Manitoba: Manitoba Health and Safety Council
New Brunswick: New Brunswick Occupational Health and Safety Council
NW Territories: Northwest Territories Health and Safety Council
Ontario: Ontario Ministry of Labour
Nunavut: Nunavut Centre for Disease Control
Quebec: Quebec Ministry of Labour
Saskatchewan: Saskatchewan Health and Safety Council
Yukon: Yukon Health and Safety Board
Limestone (1317-65-3)

OSHA: 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)

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: 20 mg/m³ STEL

10 mg/m³ TWA

Yukon: 20 mg/m³ STEL

30 mppcf TWA; 10 mg/m³ TWA

Engineering Controls
Use general ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/face
Wear safety glasses.

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>Appearance</th>
<th>Flowable semi-solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Mild acrylic odor</td>
</tr>
<tr>
<td>Physical State</td>
<td>Paste</td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>N/A</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Solubility (H₂O):</td>
<td>N/A</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.3 - 2.5</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>N/A</td>
</tr>
<tr>
<td>VOC</td>
<td>58 g/L</td>
</tr>
<tr>
<td>Octanol/H₂O Coeff.:</td>
<td>N/A</td>
</tr>
<tr>
<td>Flash Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Upper Flammability Limit (UFL):</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
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
Silica Sand (14808-60-7)
Oral LD50 Rat 500 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. Silicosis increases the risk of tuberculosis.

B: Component Carcinogenicity
Silica Sand (14808-60-7)

<table>
<thead>
<tr>
<th>Agency</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>A2 - Suspected Human Carcinogen</td>
</tr>
<tr>
<td>NIOSH</td>
<td>potential occupational carcinogen</td>
</tr>
<tr>
<td>NTP</td>
<td>Known Human Carcinogen (Select Carcinogen)</td>
</tr>
<tr>
<td>IARC</td>
<td>Monograph 68 [1997] (listed under Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources) (Group 1 (carcinogenic to humans))</td>
</tr>
</tbody>
</table>

Teratogenicity
Ethylene glycol has been fetotoxic, caused developmental abnormalities and maternal effects in laboratory mice and rats.

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 of the components of this product are listed on, or are exempted from listing on the U.S. EPA TSCA Inventory of Chemical Substances. 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>Limestone</td>
<td>1317-65-3</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.

Canadian WHMIS Information

A: General Product Information
Material Safety Data Sheet

Material Name: PREMIUM MORTAR
ID: NDM0004

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>Limestone</td>
<td>1317-65-3</td>
<td>Yes</td>
<td>NDSL</td>
<td>EINECS</td>
</tr>
<tr>
<td>Styrene acrylic polymer</td>
<td>25586-20-3</td>
<td>Yes</td>
<td>DSL</td>
<td>No</td>
</tr>
</tbody>
</table>

*** Section 16 - Other Information ***

Reference

I5-2557-54

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. It is the buyer's responsibility to ensure that its activities comply with Federal, State or provincial, and local laws.

Key/Legend


Contact: Product Safety Coordinator
Contact Phone: 1-954-246-8888

End of Sheet NDM0004