Material Safety Data Sheet

Material Name: TYPE 1

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

Material Name: TYPE 1
Product Use: 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 has been evaluated using criteria specified in 29CFR 1910.1200 (Hazard Communication Standard). Irritating to eyes, respiratory system and skin.

Hazard Statements
CAUTION! IRRITANT. This product is irritating to the eyes, respiratory system and skin. This product may be harmful if it is swallowed. 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 is irritating to the skin.

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 is irritating to the respiratory system.

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

Potential Environmental Effects
None identified.

HMIS Ratings: Health: 2 Fire: 1 Reactivity: 0 Pers. Prot.: Safety glasses, gloves
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>1317-65-3</td>
<td>Limestone</td>
<td>30-60</td>
</tr>
<tr>
<td>25586-20-3</td>
<td>Styrene acrylic polymer</td>
<td>5-10</td>
</tr>
<tr>
<td>31069-81-5</td>
<td>Acrylic polymer</td>
<td>0.5-1.5</td>
</tr>
<tr>
<td>8052-41-3</td>
<td>Petroleum hydrocarbons</td>
<td>0.1-1.0</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.
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.

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

NFPA Ratings: Health: 2 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
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. 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.
A: Component Exposure Limits

Limestone (1317-65-3)

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>New Brunswick</th>
<th>NW Territories</th>
<th>Nunavut</th>
<th>Quebec</th>
<th>Saskatchewan</th>
<th>Yukon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone</td>
<td>15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable dust)</td>
<td>10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable dust)</td>
<td>10 mg/m³ TWA (total dust); 3 mg/m³ TWA (respirable fraction)</td>
<td>20 mg/m³ STEL</td>
<td>10 mg/m³ TWA (particulate matter containing no asbestos and &lt; 1% crystalline silica)</td>
<td>5 mg/m³ TWA (respirable mass); 10 mg/m³ TWA (total mass)</td>
<td>5 mg/m³ TWA (respirable mass); 10 mg/m³ TWA (total mass)</td>
<td>10 mg/m³ TWA (total dust, containing no asbestos and less than 1% crystalline silica)</td>
<td>20 mg/m³ STEL</td>
<td>10 mg/m³ TWA</td>
</tr>
</tbody>
</table>

Petroleum hydrocarbons (8052-41-3)

| Component | ACGIH | OSHA | NIOSH | Alberta | British Columbia | Manitoba | New Brunswick | NW Territories | Nova Scotia | Nunavut | Ontario | Quebec | Saskatchewan | Yukon |
|-----------|-------|------|-------|---------|------------------|---------|--------------|---------------|-------------|---------|--------|---------|--------|--------------|-------|
| Petroleum hydrocarbons | 100 ppm TWA | 500 ppm TWA; 2900 mg/m³ TWA | 350 mg/m³ TWA; 1800 mg/m³ Ceiling (15 min) | 100 ppm TWA; 572 mg/m³ TWA | 290 mg/m³ TWA | 580 mg/m³ TWA | 100 ppm TWA; 525 mg/m³ TWA | 100 ppm TWA; 575 mg/m³ TWA | 125 ppm STEL; 720 mg/m³ STEL | 100 ppm TWA; 575 mg/m³ TWA | 125 ppm STEL; 720 mg/m³ STEL | 525 mg/m³ TWA; 720 mg/m³ STEL | 125 ppm STEL | 100 ppm TWA; 575 mg/m³ TWA |

**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.
**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.

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### **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.

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### **Section 11 - Toxicological Information**

**Acute Dose Effects**

**A: General Product Information**

No information available for the product.

**B: Component Analysis - LD50/LC50**

No LD50/LC50's are available for this product's components.

**Carcinogenicity**

**A: General Product Information**

No information available for the product.

**B: Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

**Sensitization**

No information available for the product.

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### **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.

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### **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>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>
<tr>
<td>Petroleum hydrocarbons</td>
<td>8052-41-3</td>
<td>Yes</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

B: Component Analysis - WHMIS IDL
No components are listed in the WHMIS IDL.

Additional Regulatory Information
A: General Product Information
Supplier(s) of proprietary component(s) state that these components are contained on the TSCA inventory.
Material Safety Data Sheet

Material Name: TYPE 1 ID: SAH00090

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>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>
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<td>DSL</td>
<td>No</td>
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<td>8052-41-3</td>
<td>Yes</td>
<td>DSL</td>
<td>EINECS</td>
</tr>
</tbody>
</table>

*** Section 16 - Other Information ***

Reference
Q1-4817-59

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
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 SAH00090