Material Safety Data Sheet

PRODUCT NAME: Pre-mixed Tile Grout - White

SECTION 2 – COMPOSITION / HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>%</th>
<th>TLV</th>
<th>PEL</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Carbonate ** (1317-65-3)</td>
<td>&lt; 70</td>
<td>10</td>
<td>15</td>
</tr>
<tr>
<td>Acrylic Emulsion Blend (mixture)</td>
<td>&lt; 25</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>Titanium Dioxide ** (13463-67-7)</td>
<td>&lt; 2</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Petroleum Distillate/Mineral Spirits (64742-48-9)</td>
<td>&lt; 1</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Ammonium Hydroxide (7664-41-7)</td>
<td>&lt; 0.15</td>
<td>25</td>
<td>50</td>
</tr>
</tbody>
</table>

*Unlisted ingredients are not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). **Inhalation of particulate not likely due to products physical state.

SECTION 3 – HAZARDS IDENTIFICATION

Primary Route(s) of Entry: ☒ Skin Contact ☐ Skin Absorption ☐ Eye Contact ☒ Inhalation ☒ Ingestion

Emergency Overview: White, slightly textured paste. Harmful if swallowed.

Effects of Overexposure:
- **Eye:** Causes eye irritation. **Skin:** Causes skin irritation. **Inhalation:** Harmful if inhaled. May cause nose & throat irritation. **Ingestion:** Harmful if swallowed. Chronic Hazards: Formaldehyde vapor (trace residual Formaldehyde present in base acrylic emulsion) is a known animal carcinogen (IARC & NTP) & is considered possibly carcinogenic to humans by inhalation.

Medical Conditions Aggravated by Exposure: None known.

SECTION 4 – FIRST AID MEASURES

Skin Contact: Wash w/ soap & water for @ least 15 minutes. Get medical attention if symptoms persist. Remove & wash contaminated clothing.

Eye Contact: Immediately flush w/ large quantities of water for @ least 15 minutes until irritation subsides. Get medical attention.

Inhalation: Remove to fresh air. If breathing difficult, leave area to obtain fresh air. If breathing remains difficult, get medical attention.

Ingestion: DO NOT INDUCE VOMITING. Get immediate medical attention.
SECTION 5 – FIRE FIGHTING MEASURES

**FLAMMABLE**
- [ ] Yes
- [x] No

**EXTINGUISHING MEDIA**
- Carbon Dioxide, Dry Chemical, Foam, Water Fog

**FLASHPOINT (°F) & METHOD**
- >200°F (Seta Closed Cup)

**LOWER EXPLOSIVE LIMIT (% BY VOLUME)**
- NE

**UPPER EXPLOSIVE LIMIT (% BY VOLUME)**
- NE

**AUTOMATIC IGNITION TEMPERATURE (°F)**
- NE

**HAZARDS**
- None known.

**SPECIAL FIREFIGHTING PROCEDURES**
- Wear self-contained breathing apparatus pressure demand (NIOSH approved or equivalent) & full protective gear. Use water spray to cool exposed surfaces.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

**PROCEDURES**
- Wear proper protective equipment (Section 8). Use absorbent material or scrape up dried material & place in approved container.

SECTION 7 – HANDLING & STORAGE

**HANDLING PROCEDURES & EQUIPMENT**
- Keep out of reach of children & pets. Do not take internally. Do not breathe vapors. Use only w/ adequate ventilation. Wash thoroughly after handling. Avoid contact w/ eyes, skin & clothing. Open windows & doors to ensure cross-ventilation & fresh air during application & curing.

**STORAGE REQUIREMENTS**
- Close container after each use. Store containers away from excessive heat & freezing. Do not store @ temperatures above 120°F. Store away from caustics & oxidizers.

SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

**RESPIRATORY**
- In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH-approved air purifying respirator w/ organic vapor cartridge may be necessary under circumstances where concentrations are expected to exceed exposure limits.

**EYEWEAR**
- Goggles or safety glasses w/ side shields.

**CLOTHING / GLOVES**
- Rubber gloves. Other protective equipment not required under normal use.

**HYGENIC PRACTICES**
- Remove & wash contaminated clothing before re-use. Wash hands before breaks & @ end of workday.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE**
- Paste

**ODOR & APPEARANCE**
- Mild acrylic/ammonia odor, v slightly textured white paste

**SPECIFIC GRAVITY**
- Approximately 1.50 to 2.0

**VAPOR DENSITY (AIR=1)**
- > 1

**EVAPORATION RATE**
- NE

**BOILING RANGE (°F)**
- NE

**pH**
- Approximately 7 to 10

**SOLUBILITY IN WATER**
- Slightly soluble prior to full cure

**VAPOR PRESSURE (MM Hg)**
- NE

**%/WT VOLATILE (TNV)**
- < 25

SECTION 10 – STABILITY AND REACTIVITY

**STABILITY**
- [x] Yes
- [ ] No
- Stable under normal conditions.

**INCOMPATABILITY**
- [x] Yes
- [ ] No
- Incompatible w/ strong bases & oxidizing agents.

**CONDITIONS TO AVOID**
- Excessive heat & freezing.

**HAZARDOUS POLYMERIZATION/HAZARDOUS DECOMPOSITION PRODUCTS**
- Hazardous polymerization will not occur under normal conditions. Normal decomposition products, ie: COx, NOx.
SECTION 11 – TOXICOLOGICAL INFORMATION / CARCINOGENICITY

ACGIH: Small amount of Silica, crystalline present in Calcium Carbonate & trace residual Formaldehyde present in base emulsion are suspected human carcinogens.

OSHA: Trace residual Formaldehyde present in base emulsion viewed as a possible cancer hazard.


DATA WITH POSSIBLE RELEVANCE TO HUMANS: Product contains trace amounts of residual Formaldehyde. OSHA, NTP & IARC identify Formaldehyde as a potential carcinogen. Formaldehyde has been shown to cause mutations in a variety of in-vitro test systems, w/ human significance unknown. Rats have shown carcinogenic effects in respiratory system. Risk should be minimal when used w/ adequate ventilation. Maintain adequate ventilation to prevent exposure above OSHA exposure limits.

SECTION 12 – ECOLOGICAL INFORMATION

AQUATIC TOXICITY: Not known or expected under normal use.

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose of material in accordance w/ Federal, State & Local regulations.

EPA WASTE CODE IF DISCARDED (40CFR Sec.261): None.

SECTION 14 – TRANSPORT INFORMATION

SPECIAL SHIPPING INFORMATION: Product not regulated by DOT.

SECTION 15 – REGULATORY INFORMATION

CERCLA – SARA HAZARD CATEGORY: Immediate health hazard; chronic health hazard.

SARA 313: None.

U.S. STATE REGS: See Section 16.

TSCA: All ingredients either on TSCA Inventory or exempt.

SECTION 16 – OTHER INFORMATION / SPECIAL PRECAUTIONS / LEGEND

NJ Right-to-Know: (Top 5 Ingredients): Calcium Carbonate (1317-65-3), Base Acrylic Emulsion (mixture), Water (7732-18-5), Petroleum Distillate (64742-48-9), Titanium Dioxide (13463-67-7). Pennsylvania Right-to-Know (Non-Haz @ >3%): Water (7732-18-5). Ingredients Known to State of California to cause cancer &/or developmental toxicity &/or reproductive toxicity: Silica, crystalline & Formaldehyde. HMIS Ratings: Health: 1, Flammability: 0, Reactivity: 0. Titanium Dioxide added to Massachusetts Right to Know List, Minnesota Hazardous Substance List, New Jersey Right to Know List, Pennsylvania Right to Know List & Rhode Island Hazardous Substance List. WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.


Reviewed By: Larry G. Brandon VP Technology & General Manager February 3, 2010

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