Material Safety Data Sheet

MSDS No. 0022 Rev. 5

SECTION 1 – PRODUCT NAME & MANUFACTURER INFORMATION

PRODUCT NAME: Pre-mixed Tile Grout - White
MANUFACTURER’S NAME & TELEPHONE NUMBER: Red Devil, Inc. 918-825-5744
STREET ADDRESS: 4175 Webb Street
CITY / STATE / ZIP: Pryor, Oklahoma 74361

SECTION 2 – COMPOSITION / HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>PRODUCT CONSISTS OF:</th>
<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>
<td>mg/m3</td>
</tr>
<tr>
<td>Acrylic Emulsion Blend (mixture)</td>
<td>&lt; 25</td>
<td>NE</td>
<td>NE</td>
<td></td>
</tr>
<tr>
<td>Titanium Dioxide ** (13463-67-7)</td>
<td>&lt; 2</td>
<td>10</td>
<td>10</td>
<td>mg/m3</td>
</tr>
<tr>
<td>Petroleum Distillate/Mineral Spirits (64742-48-9)</td>
<td>&lt; 1</td>
<td>100</td>
<td>100</td>
<td>ppm</td>
</tr>
<tr>
<td>Ammonium Hydroxide (7664-41-7)</td>
<td>&lt; 0.15</td>
<td>25</td>
<td>50</td>
<td>ppm</td>
</tr>
</tbody>
</table>

Non-hazardous ingredients*

*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. Calculated VOC: < 1.50%/wt., < 40 g/L. CARB Compliance: Yes. Prop 65 Ingredients: Yes (See Section 16)

SECTION 3 – HAZARDS IDENTIFICATION

PRIMARY ROUTE(S) OF ENTRY: Skin Contact, Skin Absorption, Inhalation
EMERGENCY OVERVIEW: White, slightly textured paste. Harmful if swallowed.
EFFECTS OF OVEREXPOSURE: 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

<table>
<thead>
<tr>
<th>FLAMMABLE</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

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

<table>
<thead>
<tr>
<th>FLASHPOINT (°F) &amp; METHOD</th>
<th>UPPER EXPLOSIVE LIMIT (% BY VOLUME)</th>
<th>LOWER EXPLOSIVE LIMIT (% BY VOLUME)</th>
<th>AUTOIGNITION TEMPERATURE (°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;200°F (Seta Closed Cup)</td>
<td>NE</td>
<td>NE</td>
<td>NE</td>
</tr>
</tbody>
</table>

| UNUSUAL FIRE & EXPLOSION 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.

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# SECTION 6 – ACCIDENTAL RELEASE MEASURES

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

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# 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.

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# 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.

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# SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>PHYSICAL STATE</th>
<th>ODOR &amp; APPEARANCE</th>
<th>SPECIFIC GRAVITY</th>
<th>EVAPORATION RATE</th>
<th>pH</th>
<th>VAPOR PRESSURE (MM Hg)</th>
<th>VAPOR DENSITY (AIR=1)</th>
<th>BOILING RANGE (°F)</th>
<th>SOLUBILITY IN WATER</th>
<th>%/WT VOLATILE (TNV)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paste</td>
<td>Mild acrylic/ammonia odor, v slightly textured white paste</td>
<td>Approximately 1.50 to 2.0</td>
<td>NE</td>
<td>Approximately 7 to 10</td>
<td>NE</td>
<td>&gt; 1</td>
<td>NE</td>
<td>Slightly soluble prior to full cure</td>
<td>&lt; 25</td>
</tr>
</tbody>
</table>

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# SECTION 10 – STABILITY AND REACTIVITY

**STABILITY**
- Yes | No
- Stable under normal conditions.

**INCOMPATABILITY**
- 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.

IARC
Trace residual Formaldehyde: Potential human carcinogen.

NTP
Silica, crystalline, present in small amount in Calcium Carbonate Filler: Known carcinogen. Trace residual Formaldehyde: Anticipated carcinogen.

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.

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.

U.S. STATE REGS
See Section 16.

SARA 313
None.

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. INTERNATIONAL EMERGENCY NUMBER: 352-323-3500 - INFOTRAC


Reviewed By: Larry G. Brandon
VP Technology & General Manager
March 19, 2012

NAME                                                                                                                      TITLE                                                                                                                      DATE

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