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

PRODUCT CONSISTS OF:

- Calcium Carbonate ** (1317-65-3) < 70 10 15 mg/m3
- Acrylic Emulsion Blend (mixture) < 25 NE NE
- Titanium Dioxide ** (13463-67-7) < 2 10 10 mg/m3
- Petroleum Distillate/Mineral Spirits (64742-48-9) < 1 100 100 ppm
- Ammonium Hydroxide (7664-41-7) < 0.15 25 50 ppm

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
- 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  
- No

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

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>FLAMMABLE LIMIT</th>
<th>EXTREMES LIMIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLASHPOINT (°F) &amp; METHOD</td>
<td>&gt;200°F (Seta Closed Cup)</td>
<td>Upper Explosive Limit (% by Volume)</td>
</tr>
<tr>
<td>LOWER EXPLOSIVE LIMIT (% by Volume)</td>
<td>NE</td>
<td>Autoignition Temperature (°F)</td>
</tr>
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**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**

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
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<tbody>
<tr>
<td>PHYSICAL STATE</td>
<td>Paste</td>
</tr>
<tr>
<td>ODOR &amp; APPEARANCE</td>
<td>Mild acrylic/ammonia odor, v slightly textured white paste</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY</td>
<td>Approximately 1.50 to 2.0</td>
</tr>
<tr>
<td>EVAPORATION RATE</td>
<td>NE</td>
</tr>
<tr>
<td>pH</td>
<td>Approximately 7 to 10</td>
</tr>
<tr>
<td>VAPOR PRESSURE (MM Hg)</td>
<td>NE</td>
</tr>
<tr>
<td>%/WT VOLATILE (TNV)</td>
<td>&lt; 25</td>
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**SECTION 10 – STABILITY AND REACTIVITY**

**STABILITY**  
- Yes  
- No

**INCOMPATABILITY**  
- Yes  
- No

**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.

**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**

<table>
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<tr>
<th>CERCLA – SARA HAZARD CATEGORY</th>
<th>U.S. STATE REGS</th>
<th>SARA 313</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immediate health hazard; chronic health hazard.</td>
<td>See Section 16.</td>
<td>None.</td>
<td>All ingredients either on TSCA Inventory or exempt.</td>
</tr>
</tbody>
</table>

**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

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