Material Safety Data Sheet

MSDS No. 0086 Rev. 1

SECTION 1 – PRODUCT NAME & MANUFACTURER INFORMATION

PRODUCT NAME
Sub Floor and Deck Adhesive – – VOC Compliant – 9 oz. 29 oz Cartridge

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>INGREDIENTS</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; 35</td>
<td>10</td>
<td>15</td>
<td>mg/m³</td>
</tr>
<tr>
<td>Acrylic Emulsion (mixture)</td>
<td>&lt; 55</td>
<td>NE</td>
<td>NE</td>
<td></td>
</tr>
<tr>
<td>Benzoate Ester (proprietary)</td>
<td>&lt; 5</td>
<td>NE</td>
<td>NE</td>
<td></td>
</tr>
<tr>
<td>Titanium Dioxide (13463-67-7)</td>
<td>&lt; 1</td>
<td>10</td>
<td>15</td>
<td>mg/m³</td>
</tr>
<tr>
<td>Ammonium Hydroxide (7664-41-7)</td>
<td>&lt; 0.20</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 not likely due to products physical state. Calculated VOC: < 0.5%/wt (< 7 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 to off-white colored paste product. Harmful if swallowed.

EFFECTS OF OVEREXPOSURE
May cause eye, skin, nose, throat & respiratory tract irritation.

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

FLASHPOINT (°F) & METHOD

>200F (Closed Cup)

UPPER EXPLOSIVE LIMIT (% BY VOLUME)

NE

LOWER EXPLOSIVE LIMIT (% BY VOLUME)

NE

AUTIGNITION TEMPERATURE (°F)

NE

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.

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 120F. 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

Viscous paste

ODOR & APPEARANCE

Mild acrylic/ammonia. Smooth paste.

SPECIFIC GRAVITY

Approximately 1.0 to 1.50

VAPOR DENSITY (AIR=1)

Heavier than air

EVAPORATION RATE

Slower than n-Butyl Acetate

BOILING RANGE (°F)

210 to 220F

pH

Approximately 7 to 10

SOLUBILITY IN WATER

Slight, before cure.

VAPOR PRESSURE (MM Hg)

NE

%/WT VOLATILE (TNV)

Approximately 25 to 30%

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: Human carcinogen. TiO₂ classed as Group 2B (possibly carcinogenic to humans).

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 identify Formaldehyde as a potential carcinogen. IARC identifies Formaldehyde as a human 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
Shipping information applicable for domestic ground transport only. Different categorization may be necessary if shipped via other modes of transportation &/or to non-domestic destinations. 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), Benzoate Ester (proprietary), Water (7732-18-5), Propylene Glycol (57-55-6). Pennsylvania Right-to-Know (Non-Haz @ >3%): Water (7732-18-5). HMIS Ratings: Health: 1, Flammability: 0, Reactivity: 0, Personal Protection: B.

WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. (Trace Residual Formaldehyde (50-00-0) in base polymer & Silica, crystalline (14808-60-7) present @ very low levels in calcium carbonate filler.) Contains Titanium Dioxide, classed by IARC as possibly carcinogenic to humans. INTERNATIONAL EMERGENCY NUMBER: 352-323-3500 - INFOTRAC


Reviewed By: Larry G. Brandon VP Technology & General Manager November 7, 2012

The information contained herein has been developed based upon currently available scientific data. New information may be developed from time to time which may render the conclusions of this report obsolete. Therefore, no warranty is extended as to the applicability of this information to the user's intended purpose or for the consequences of its use or misuse.