1. IDENTIFICATION

Product Identifier
Product Name Advanced Gutter & Flashing Sealant - White

Other means of identification
SDS # RD-0200.3000.0990
Product Code 0990 RD3000 Series

Recommended use of the chemical and restrictions on use.
Recommended Use An advanced, low-VOC, white sealant, designed for gutter & flashing applications. Formula contains special technology, allowing exposure to water after only 2 hrs w/o washing out.

Details of the supplier of the safety data sheet
Supplier Address Red Devil, Inc.
4175 Webb Street
Pryor, Oklahoma 74361
www.reddevil.com

Emergency Telephone Number
Company Phone Number 918-825-5744
Fax: 918-825-5761
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification
This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

The product contains no substances which at their given concentration, are considered to be hazardous to health

Appearance White paste Physical State Paste Odor Slight
3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Carbonate</td>
<td>471-34-1</td>
<td>&lt;60</td>
</tr>
<tr>
<td>Proprietary MS Polymer Blend</td>
<td>MIXTURE</td>
<td>&lt;30</td>
</tr>
<tr>
<td>Diisodecyl phthalate</td>
<td>26761-40-0</td>
<td>&lt;30</td>
</tr>
<tr>
<td>Vinyltrimethoxysilane</td>
<td>2768-02-7</td>
<td>&lt;3</td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>13463-67-7</td>
<td>&lt;10</td>
</tr>
<tr>
<td>Non-hazardous Ingredients*</td>
<td>Proprietary</td>
<td>&lt;10</td>
</tr>
<tr>
<td>Crystalline silica</td>
<td>14808-60-7</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

* Unlisted ingredients are not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). (Calcium Carbonate, Titanium Dioxide) Inhalation of particulates unlikely due to product's physical state. Crystalline Silica (as Quartz) present at low levels in Calcium Carbonate filler.

4. FIRST-AID MEASURES

First Aid Measures

General Advice
Provide this SDS to medical personnel for treatment.

Eye Contact
Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Seek immediate medical attention/advice.

Skin Contact
In case of contact, immediately wash skin with soap and water or water for at least 15 minutes. Remove and wash contaminated clothing before reuse. If irritation persists, seek medical attention.

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

Ingestion
If swallowed, do not induce vomiting. Get medical attention immediately.

Most important symptoms and effects

Symptoms
Prolonged or repeated skin contact may result in dermatitis (red, dry skin). Direct contact with eyes may cause temporary irritation. Exposed individuals may experience eye tearing, redness and discomfort. Irritating to mouth, throat, and stomach if ingested. May cause gastrointestinal irritation, nausea, diarrhea, and vomiting. Overexposure to vapors during application and curing may mildly irritate respiratory tract and result in coughing and sneezing.

Indication of any immediate medical attention and special treatment needed

Notes to Physician
Provide general supportive measures and treat symptomatically. May aggravate pre-existing skin disorders.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Small Fire
Use carbon dioxide (CO2), dry chemical or water spray.

Large Fire
Dry chemical, Use foam or water spray.
Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical
Product is combustible & may ignite if exposed to high temperature or direct flame.

Hazardous Combustion Products Normal products of combustion.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Use water spray to keep fire-exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions
Wear protective clothing as described in Section 8 of this safety data sheet.

Other Information
Small Spills: 1 drum or less – Level D Equipment (gloves, chemical resistant apron, boots & eye protection).
Large Spills: Rubber gloves, rubber boots, face shield & Tyvek suit as a minimum. Minimum level of PPE for releases in which the oxygen level is < 19.5% or is unknown, should be Level B: triple gloves (rubber gloves & nitrile gloves over latex gloves), chemical resistant suit, fire-retardant clothing & boots, hard hat & self-contained breathing apparatus.

For Emergency Responders
Restrict access to spill area.

Environmental Precautions
Minimize use of water to prevent environmental contamination. Prevent spill or rinse from contaminating storm drains, sewers, soil or groundwater. Do not allow discharge containing this material to enter streams, ponds, estuaries, oceans or other waters unless in accordance w/ requirements of National Pollutant Discharge Elimination System (NPDES) permit & permitting authority has been notified in writing prior to discharge. Do not allow discharge containing this material to enter sewer systems w/o previously notifying local sewage treatment plant authority. For information, contact State Water Board or EPA Regional Office
Other: U.S. regulations may require reporting of spills of this material reaching surface waters if sheen is formed.

Methods and material for containment and cleaning up

Methods for Containment
Prevent further leakage or spillage if safe to do so. Use absorbent material to contain spill.

Methods for Clean-Up
Sweep up absorbed material and shovel into suitable containers for disposal. Wash area with soap and water. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling
Avoid breathing vapors. Use only with adequate ventilation. Open windows & doors to ensure fresh air cross-ventilation during application and curing. Wash thoroughly with soap and water after handling. Avoid contact with skin, eyes or clothing. While handling product keep out of reach of children and pets. Do not eat or drink while handling this material. See section 6 of this SDS for clean up instructions. Remove contact lenses before using & do not handle contact lenses until all sealant has been cleaned from fingertips, nails & cuticles. Residual sealant may transfer to contact lenses & result in severe eye irritation.

Conditions for safe storage, including any incompatibilities
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Exposure guidelines / protective equipment are for routine handling and accidental spills

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Carbonate</td>
<td>TWA: 10 mg/m³ total dust</td>
<td>TWA: 5 mg/m³ respirable dust</td>
<td>TWA: 10 mg/m³ total dust</td>
</tr>
<tr>
<td>471-34-1</td>
<td>TWA: 15 mg/m³ total dust (vacated) TWA: 10 mg/m³ total dust</td>
<td>IDLH: 5000 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Titanium dioxide</td>
<td>TWA: 10 mg/m³ total dust</td>
<td>TWA: 5 mg/m³ respirable dust</td>
<td>TWA: 10 mg/m³ total dust</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>(vacated) TWA: 10 mg/m³ total dust</td>
<td>IDLH: 50 mg/m³ respirable dust</td>
<td>TWA: 0.05 mg/m³ respirable dust</td>
</tr>
<tr>
<td>Crystalline silica</td>
<td>TWA: 0.025 mg/m³ respirable fraction</td>
<td>(30)/(%SiO₂ + 2) mg/m³ TWA total dust</td>
<td>TWA: 0.05 mg/m³ respirable dust</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>(250)/(%SiO₂ + 5) mppcf TWA respirable fraction</td>
<td>IDLH: 50 mg/m³ respirable dust</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(10)/(%SiO₂ + 2) mg/m³ TWA respirable fraction</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering Controls

Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Use approved safety goggles or safety glasses. If necessary, refer to appropriate regulations & standards.

Skin and Body Protection

Skin: Wear chemical impervious gloves (eg: Nitrile or Neoprene). Use triple gloves for spill response. If necessary, refer to appropriate regulations & standards.

Body: Use protection appropriate for task (eg: lab coat, coveralls, Tyvek suit). If necessary, refer to OSHA Technical Manual (Sec. VII: Personal Protective Equipment) or appropriate Standards of Canada. Use foot protection, as described in appropriate regulations & standards.

Respiratory Protection

In event of insufficient ventilation, suitable respirator should be used. NIOSH-approved air purifying respirator w/ organic vapor canister may be necessary under circumstances of airborne concentrations exceeding exposure limits. Respirator program meeting OSHA 1910.134 & ANSI Z88.2 requirements should be followed when workplace conditions warrant respirator use.

General Hygiene Considerations

Wash hands before breaks and immediately after handling the product. Wash contaminated clothing before reuse.

Precautionary Measures: Contact lenses may pose a hazard. Soft lenses may absorb & all lenses may concentrate irritants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties
Physical State
Appearance       Paste
Color            White paste

Odor             Slight
Odor Threshold   Not determined

Explosive Properties
Not determined

Oxidizing Properties
Not determined

Additional Information
% by Weight Solids (TNV): > 90%
VOC Content (%): < 2%
VOC Content: <35 g/L

10. STABILITY AND REACTIVITY

Reactivity
Cures upon contact with air.

Chemical Stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization
Hazardous polymerization does not occur.

Conditions to Avoid
Incompatible Materials. Excessive heat or cold.

Incompatible Materials
Strong bases, Strong oxidizing agents.

Hazardous Decomposition Products
No hazardous decomposition products if stored & handled as prescribed.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information
Eye Contact  
Eye contact may result in tearing, redness & pain.

Skin Contact  
Prolonged and frequent contact may cause redness and irritation. Repeated skin contact may cause dermatitis.

Inhalation  
Overexposure to vapors during application & curing may mildly irritate respiratory tract & result in coughing & sneezing.

Ingestion  
May cause gastrointestinal irritation, nausea, diarrhea, and vomiting.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Carbonate 471-34-1</td>
<td>= 6450 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Diisodecyl phthalate 26761-40-0</td>
<td>= 64 g/kg (Rat)</td>
<td>&gt; 2900 mg/kg (Rat) &gt; 3160 mg/kg (Rabbit)</td>
<td>&gt; 12.54 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>Vinyltrimethoxysilane 2768-02-7</td>
<td>= 7340 µL/kg (Rat)</td>
<td>= 3360 µL/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Titanium dioxide 13463-67-7</td>
<td>&gt; 10000 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Crystalline silica 14808-60-7</td>
<td>= 500 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Information on physical, chemical and toxicological effects

Symptoms  
Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization  
Not known to be human skin or respiratory sensitizers.

Carcinogenicity  
The table below indicates whether each agency has listed any ingredient as a carcinogen. Titanium dioxide is a possible carcinogen when it appears as a respirable dust. Silica, crystalline present in small amount in Calcium Carbonate filler: Known carcinogen. Crystalline Silica is considered to be a human carcinogen when in respirable form (dust / powder).

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium dioxide 13463-67-7</td>
<td>Group 2B</td>
<td>Group 1</td>
<td>Known</td>
<td>X</td>
</tr>
<tr>
<td>Crystalline silica 14808-60-7</td>
<td>A2</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

ACGIH (American Conference of Governmental Industrial Hygienists)  
A2 - Suspected Human Carcinogen  
IARC (International Agency for Research on Cancer)  
Group 1 - Carcinogenic to Humans  
Group 2B - Possibly Carcinogenic to Humans  
NTP (National Toxicology Program)  
Known - Known Carcinogen  
OSHA (Occupational Safety and Health Administration of the US Department of Labor)  
X - Present

Chronic toxicity  
Repeated or prolonged exposure may result in skin, respiratory, kidney & liver damage. Prolonged & repeated skin contact may result in irritation & possibly dermatitis.

Target organ effects  
Acute: Eyes & Skin. Chronic: Skin.

Numerical measures of toxicity  
Not determined
12. ECOLOGICAL INFORMATION

Ecotoxicity
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diisodecyl phthalate 26761-40-0</td>
<td>500: 72 h Desmodesmus subspicatus mg/L EC50 0.8: 96 h Pseudokirchneriella subcapitata mg/L EC50 static</td>
<td>1: 96 h Pimephales promelas mg/L LC50 flow-through 0.55: 96 h Leptomis macrochirus mg/L LC50 static 10000: 96 h Leuciscus idus mg/L LC50 static</td>
<td>500: 24 h Daphnia magna Straus mg/L EC50 0.02: 48 h Daphnia magna mg/L EC50 Static</td>
<td></td>
</tr>
</tbody>
</table>

Persistence/Degradability
Not tested for persistence & biodegradability

Bioaccumulation
Not tested for bio-accumulation potential

Mobility
Not tested for mobility in soil

Other Adverse Effects
Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging
Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note
Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT
Not regulated

IATA
Not regulated

IMDG
Not regulated

15. REGULATORY INFORMATION

International Inventories
RD-0200-3000.0990 - Advanced Gutter & Flashing Sealant - White

Revision Date: 21-Jul-2013

TSCA Listed

Legend:
- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS - Japan Existing and New Chemical Substances
- IECSC - China Inventory of Existing Chemical Substances
- KECL - Korea Existing and Evaluated Chemical Substances
- PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA 311/312 Hazard Categories

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Yes/No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Health Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Chronic Health Hazard</td>
<td>Yes</td>
</tr>
<tr>
<td>Fire Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Sudden Release of Pressure Hazard</td>
<td>No</td>
</tr>
<tr>
<td>Reactive Hazard</td>
<td>No</td>
</tr>
</tbody>
</table>

SARA 313
Not determined

CWA (Clean Water Act)

<table>
<thead>
<tr>
<th>Component</th>
<th>CWA - Reportable Quantities</th>
<th>CWA - Toxic Pollutants</th>
<th>CWA - Priority Pollutants</th>
<th>CWA - Hazardous Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diisodecyl phthalate 26761-40-0 ( &lt;30 )</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

US State Regulations

California Proposition 65
This product contains the following Proposition 65 chemicals.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diisodecyl phthalate 26761-40-0</td>
<td>Developmental</td>
</tr>
<tr>
<td>Titanium dioxide 13463-67-7</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>Crystalline silica 14808-60-7</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diisodecyl phthalate 26761-40-0</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Titanium dioxide 13463-67-7</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Crystalline silica 14808-60-7</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
16. OTHER INFORMATION

**NFPA**
- Health Hazards: 1
- Flammability: 1
- Instability: 0
- Special Hazards: Not determined

**HMIS**
- Health Hazards: 1
- Flammability: 1
- Physical Hazards: 0
- Personal Protection: X

**Issue Date**: 10-Jul-2013
**Revision Date**: 21-Jul-2013
**Revision Note**: New format

**Disclaimer**
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet