1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier
Product Name HVAC/R Silicone – Acetoxy Cure – Clear, White & Gray

Other Means of Identification
SDS # RD-0107

Product Code 0896, 0897, 0896/50 Series

Recommended Use of the Chemical and Restrictions on Use
Recommended Use Silicone Sealant.

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 INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification
Skin corrosion/irritation Category 2

Signal Word
Warning

Hazard Statements
Causes skin irritation

Appearance Clear, White and Gray paste
Physical State Paste
Odor Acetic Acid Odor (Vinegar odor)
Precautionary Statements - Prevention
Wash face, hands and any exposed skin thoroughly after handling
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response
IF ON SKIN: Wash with plenty of soap and water
If skin irritation persist: Get medical advice/attention
Take off contaminated clothing and wash before reuse

Hazards Not Otherwise Classified (HNOC)
Not Applicable

Other Information
Not Applicable

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroxy-terminated Dimethyl siloxane</td>
<td>70131-67-8</td>
<td>&gt;50</td>
</tr>
<tr>
<td>Non-hazardous ingredients *</td>
<td>Proprietary</td>
<td>&gt;10</td>
</tr>
<tr>
<td>Amorphous silica (glass)</td>
<td>7631-86-9</td>
<td>&lt;13</td>
</tr>
<tr>
<td>Polydimethylsiloxane</td>
<td>63148-62-9</td>
<td>&lt;10</td>
</tr>
<tr>
<td>Methyltriacetoxysilane</td>
<td>4253-34-3</td>
<td>&lt;6</td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>&lt;5</td>
</tr>
<tr>
<td>Ethyltriacetoxysilane</td>
<td>17689-77-9</td>
<td>&lt;6</td>
</tr>
</tbody>
</table>

* Unlisted ingredients are not considered hazardous under the OSHA GHS Hazard Communication Standard (29 CFR 1910.1200).

(Methyltriacetoxysilane) Observe limits for acetic acid formed during curing on exposure to water or humid air.
(Silica, amorphous; Titanium Dioxide) Inhalation of particulates unlikely due to product’s physical state

### 4. FIRST AID MEASURES

**First Aid Measures**

**General advice**
Provide this SDS to medical personnel for treatment.

**Inhalation**
If symptoms are experienced remove source of contamination or move victim to fresh air. If irritation persists, obtain medical advice.

**Eye Contact**
Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes while holding the eyelid(s) open. Obtain medical attention.

**Ingestion**
Rinse mouth thoroughly with water. If irritation or discomfort occurs, obtain medical advice.

**Skin Contact**
No health effects expected. If irritation does occur, flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.

**Most Important Symptoms and Effects, both Acute and Delayed**

**Symptoms**
Causes skin irritation. May cause nose, throat & respiratory tract irritation. Direct contact with eyes may cause temporary irritation.

**Indication of any Immediate Medical Attention and Special Treatment Needed**

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Page 2 / 8
Note to Physicians
Treat according to person’s condition & specifics of exposure.

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
   Use dry chemical, foam or water spray.

Unsuitable Extinguishing Media
Not determined.

Specific Hazards Arising from the Chemical
Not determined.

Hazardous combustion products
Carbon oxides & traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

Protective Equipment and Precautions for Firefighters
Self-contained breathing apparatus & protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions
Observe all personal protection equipment recommendations described in Sections 5 & 8.

Environmental Precautions
See Section 12 for additional ecological information.

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 Cleaning Up
Wipe up or scrape up & contain for salvage or disposal. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbent or cleaning materials appropriately, since spontaneous heating may occur. Local, state & federal laws & regulations may apply to releases & disposal of this material as well as those materials & items employed in the cleanup of releases. You will need to determine which federal, state & local laws & regulations are applicable. Sections 13 & 15 of this MSDS provide information regarding certain federal & state requirements.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling
Handle in accordance with good industrial hygiene and safety practice. Wash face, hands, and any exposed skin thoroughly after handling. Use personal protection recommended in Section 8. Use only in well-ventilated areas. Avoid contact with skin and eyes. Product evolves acetic acid (HOAc) when exposed to water or humid air.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions
Keep container closed & store away from water or moisture.
Incompatible Materials Oxidizing material can cause a reaction. Water, moisture or humid air can cause hazardous vapors to form as described in Section 8.

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>Amorphous silica (glass) 7631-86-9</td>
<td>-</td>
<td>(vacated) TWA: 6 mg/m$^3$ &lt;1% Crystalline silica TWA: 20 mppcf $\leq (80)/(% \text{SiO}_2) \text{mg/m}^3$ TWA</td>
<td>IDLH: 3000 mg/m$^3$ TWA: 6 mg/m$^3$</td>
</tr>
<tr>
<td>Titanium Dioxide 13463-67-7</td>
<td>TWA: 10 mg/m$^3$</td>
<td>TWA: 15 mg/m$^3$ total dust (vacated) TWA: 10 mg/m$^3$ total dust</td>
<td>IDLH: 5000 mg/m$^3$</td>
</tr>
</tbody>
</table>

Other Information Acetic acid is formed upon contact w/ water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 10 ppm & ACGIH TLV: TWA 10 ppm, STEL 15 ppm.

Appropriate Engineering Controls

Engineering Controls Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Good general ventilation should be sufficient.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection Safety glasses as a minimum for protection.

Skin and Body Protection Wear suitable protective clothing.

Respiratory Protection No special equipment needed.

General Hygiene Considerations Note: These precautions are for room temperature handling. Use @ elevated temperature or aerosol/spray applications may require added precautions. Handle in accordance with good industrial hygiene and safety practice. Wash @ mealtime & end of shift. Contaminated clothing & shoes should be removed as soon as practical & thoroughly cleaned before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State Appearance</td>
<td>Paste</td>
<td>Odor Acetic Acid Odor (Vinegar odor)</td>
</tr>
<tr>
<td>Color</td>
<td>Clear, White and Gray paste</td>
<td>Odor threshold Not determined</td>
</tr>
<tr>
<td>Property</td>
<td>Values</td>
<td>Remarks • Method</td>
</tr>
<tr>
<td>pH</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Boiling point/boiling range</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Flammability limits in air Upper flammability limits</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>Not determined</td>
<td></td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

Reactivity
Not reactive under normal conditions

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.

Incompatible Materials
Oxidizing material can cause a reaction. Water, moisture or humid air can cause hazardous vapors to form as described in Section 8.

Hazardous Decomposition Products
Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Carbon oxides & traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde, Nitrogen oxides & metal oxides.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Inhalation
May cause irritation of respiratory tract.

Eye Contact
May cause temporary irritation on eye contact.

Skin Contact
Causes skin irritation. Can be absorbed through the skin.

Ingestion
Can be harmful if swallowed.

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></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**RD-0107 - HVAC/R Silicone – Acetoxy Cure – Clear, White & Gray**  
**Revision Date** 26-Mar-2013

### 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

#### 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.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amorphous silica (glass) 7631-86-9</td>
<td>Group 3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Titanium Dioxide 13463-67-7</td>
<td>Group 2B</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

**IARC (International Agency for Research on Cancer)**  
Group 2B - Possibly Carcinogenic to Humans  
Group 3 IARC components are “not classifiable as human carcinogens”  

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**  
X - Present

#### Numerical Measures of Toxicity- Product

Not determined

### 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

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

<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>Amorphous silica (glass) 7631-86-9</td>
<td>440: 72 h Pseudokirchneriella subcapitata mg/L EC50</td>
<td>5000: 96 h Brachydanio rerio mg/L LC50 static</td>
<td>7600: 48 h Ceriodaphnia dubia mg/L EC50</td>
<td></td>
</tr>
</tbody>
</table>

#### Persistence and Degradability

Complete information is not yet available.

#### Bioaccumulation

Complete information is not yet available.

#### Mobility

Complete information is not yet available.

#### Other Adverse Effects

Not determined

### 13. DISPOSAL CONSIDERATIONS

#### Waste Treatment Methods
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

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 - Korean 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>Acute health hazard</th>
<th>Chronic Health Hazard</th>
<th>Fire hazard</th>
<th>Sudden release of pressure hazard</th>
<th>Reactive Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

US State Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Proposition 65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Titanium Dioxide - 13463-67-7</td>
<td>Carcinogen</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amorphous silica (glass) 7631-86-9</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Titanium Dioxide 13463-67-7</td>
<td>X</td>
<td>X</td>
<td>X</td>
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</table>
### 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>1</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Special Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>0</td>
<td></td>
<td>Not determined</td>
</tr>
</tbody>
</table>

**Issue Date** 10-Jan-2013  
**Revision Date** 26-Mar-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