1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier
Product Name Polyurethane Sealants

Other Means of Identification
SDS # RD-0122

Product Code 0970, 0971, 0972 Series

Recommended Use of the Chemical and Restrictions on Use
Recommended Use Premium grade, high performance sealants designed for use on Window & Door applications (0970), Masonry & Concrete applications (0972) & Blacktop & Roof applications (0971).

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

<table>
<thead>
<tr>
<th>Hazard Class</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Inhalation (Dusts/Mists)</td>
<td>4</td>
</tr>
<tr>
<td>Serious Eye Damage/Eye Irritation</td>
<td>2</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>1</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>1</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>1B</td>
</tr>
</tbody>
</table>

Signal Word
DANGER
Hazard Statements
Harmful if inhaled
Causes serious eye irritation
May cause allergy or asthma symptoms or breathing difficulties if inhaled
May cause an allergic skin reaction
May cause cancer

Precautionary Statements - Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Use personal protective equipment as required
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Wash face, hands and any exposed skin thoroughly after handling
In case of inadequate ventilation wear respiratory protection
Contaminated work clothing should not be allowed out of the workplace
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Get medical attention
IF ON SKIN: Wash with plenty of soap and water
If skin irritation or rash occurs: Get medical advice/attention
Wash contaminated clothing before reuse
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician

Precautionary Statements - Storage
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)
Causes mild skin irritation
4. FIRST AID MEASURES

First Aid Measures

General Advice
Provide this SDS to medical personnel for treatment. First aid personnel should pay attention to their own safety. Remove contaminated clothing.

Eye Contact
If in Eyes: Wash affected eyes for at least 15 minutes under running water w/ eyelids held open, consult eye specialist.

Skin Contact
If on Skin: Wash thoroughly w/ soap & water. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

Inhalation
If Inhaled: If difficulties occur after vapor/aerosol inhaled, remove to fresh air & seek medical attention.

Ingestion
If Swallowed: Rinse mouth & then drink plenty of water. Do not induce vomiting unless advised by Poison Control Center or a physician.

Most Important Symptoms and Effects, both Acute and Delayed

Symptoms
May cause allergy or asthma symptoms or breathing difficulties if inhaled. Irritating to eyes, respiratory system & skin. May cause skin sensitivity.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians
Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Foam, Water spray, Dry powder, Carbon dioxide.

Unsuitable Extinguishing Media Water jet.

Specific Hazards Arising from the Chemical
Product is not flammable.

* Unlisted ingredients are not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).
(Calcium Carbonate, Titanium Dioxide, Talc, Calcium Oxide) Inhalation of particulates unlikely due to product’s physical state. Carbon Black (in series 0971, 0972 only).
Hazardous Combustion Products  Hazards During Fire-fighting: Carbon dioxide, Carbon monoxide, harmful vapors, nitrogen oxides, Fumes/smoke, Carbon black.

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.
Contaminated extinguishing water must be disposed of in accordance w/ all official regulations.

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. Handling in accordance w/ good building materials hygiene & safety practice.

Environmental Precautions  Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

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  For small or large amounts, sweep/shovel up. Dispose of absorbed material in accordance w/ regulations. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Advice on Safe Handling  Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protection recommended in Section 8. Avoid breathing vapors or mists. Wash face, hands, and any exposed skin thoroughly after handling. Use only in well-ventilated areas. In case of insufficient ventilation, wear suitable respiratory equipment. Contaminated work clothing should not be allowed out of the workplace. Wear appropriate personal protective equipment. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. The relevant fire protection measures should be noted.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions  Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up. Store away from ignition sources and incompatible materials. Protect from direct sunlight. Protect from freezing.

Packaging Materials  Keep in original container.

Incompatible Materials  Strong acids, strong bases, strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
</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. Eye wash fountain should be located in immediate work area.

**Individual Protection Measures, such as Personal Protective Equipment**

**Eye/Face Protection**
Goggles or safety glasses w/ side shields.

**Skin and Body Protection**
Chemical resistant protective gloves. Body protection should be based on level of exposure & activity.

**Respiratory Protection**
Ensure adequate ventilation, especially in confined areas.

**General Hygiene Considerations**
Avoid contact w/ skin, eyes & clothing. No special measures necessary if stored & handled correctly. Handle in accordance w/ good building materials hygiene & safety practice. When using, do not eat, drink or smoke. Hands should be washed before breaks & @ end of work shift. At the end of the shift, skin should be cleaned & skin-care agents applied. Gloves should be inspected regularly & prior to each use – replace if necessary, ie: pinhole leaks.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on Basic Physical and Chemical Properties**

<table>
<thead>
<tr>
<th>Physical State</th>
<th>Appearance</th>
<th>Odor</th>
<th>Solvent like</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Toluene-2,4-diisocyanate</strong></td>
<td>STEL: 0.02 ppm TWA: 0.005 ppm TWA: 0.005 ppm (vacated) TWA: 0.005 ppm (vacated) STEL: 0.02 ppm (vacated) STEL: 0.15 mg/m³ Ceiling: 0.02 ppm Ceiling: 0.14 mg/m³</td>
<td>IDLH: 2.5 ppm</td>
<td></td>
</tr>
<tr>
<td><strong>Toluene 2,6-diisocyanate</strong></td>
<td>STEL: 0.02 ppm TWA: 0.005 ppm</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
Color | White (0970), Black (0971), Limestone
Odor Threshold | Not determined

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>Not applicable</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 applicable</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>89 °C / 192 °F</td>
<td>ASTM D3278</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>Upper Flammability Limits</td>
<td>6% (V) Information applies to the solvent</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>1% (V) Information applies to the solvent</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Relative Density (Specific Gravity)</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Not soluble</td>
<td></td>
</tr>
<tr>
<td>Solubility in Other Solvents</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>Not applicable</td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Dynamic Viscosity</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Oxidizing Properties</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>VOC Content</td>
<td>&lt; 3%/wt (&lt; 50 g/L)</td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>~ 1.20 g/cm³ @ 20 C</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**

Product stable if stored & handled as prescribed.

**Conditions to Avoid**

See Sec. 7 Handling & Storage.

**Incompatible Materials**

Strong acids, 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**

Based on experience & information available, no adverse health effects are expected if handled as recommended w/ suitable precautions for designated uses. Product has not been tested. Statements on toxicology have been derived from properties of individual components.

**Eye Contact**

Causes serious eye irritation.
Skin Contact Causes mild skin irritation.

Inhalation Harmful if inhaled.

Ingestion Ingestion may cause irritation to mucous membranes.

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>Titanium dioxide 13463-67-7</td>
<td>&gt; 10000 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Calcium Oxide 1305-78-8</td>
<td>= 500 mg/kg (Rat)</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Carbon Black 1333-86-4</td>
<td>&gt; 15400 mg/kg (Rat)</td>
<td>&gt; 3 g/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>Toluene-2,4-diisocyanate 584-84-9</td>
<td>= 5800 mg/kg (Rat)</td>
<td>&gt; 16 mL/kg (Rabbit)</td>
<td>= 14 ppm (Rat) 4 h</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 May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

Carcinogenicity May cause cancer. Titanium dioxide is a possible carcinogen when it appears as a respirable dust. Carbon black 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>Titanium dioxide 13463-67-7</td>
<td>Group 2B</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Talc 14807-96-6</td>
<td></td>
<td>Group 3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon Black 1333-86-4</td>
<td>A3</td>
<td>Group 2B</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Toluene-2,4-diisocyanate 584-84-9</td>
<td>Group 2B</td>
<td></td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Toluene 2,6-diisocyanate 91-08-7</td>
<td>Group 2B</td>
<td></td>
<td>X</td>
<td></td>
</tr>
</tbody>
</table>

ACGIH (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen
IARC (International Agency for Research on Cancer)
Group 2B - Possibly Carcinogenic to Humans
Group 3 IARC components are "not classifiable as human carcinogens"

Reproductive Toxicity Results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity No indications of a developmental toxic/teratogenic effect were seen in animal studies.

Chronic Toxicity Repeated Dose Toxicity: Prolonged exposure may cause chronic effects. Overexposure may cause CNS depression including headache, dizziness, nausea & loss of consciousness.

Numerical Measures of Toxicity
Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Acutely harmful for aquatic organisms. May cause long-term adverse effects in aquatic environment.

**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>Talc 14807-96-6</td>
<td></td>
<td>100: 96 h <em>Brachydanio rerio</em> g/L LC50 semi-static</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calcium Oxide 1305-78-8</td>
<td></td>
<td>1070: 96 h <em>Cyprinus carpio</em> mg/L LC50 static</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbon Black 1333-86-4</td>
<td></td>
<td>5600: 24 h <em>Daphnia magna</em> mg/L EC50</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Persistence and Degradability**

Biological/Abiological Degradation – Evaluation: Poorly biodegradable. Product unstable in water. The elimination data also refer to products of hydrolysis

**Bioaccumulation**

Not determined

**Mobility**

Not determined

**Other Adverse Effects**

Do not discharge into environment w/o control. Product has not been tested. Statements on Ecotoxicology derived from properties of individual components

### 13. DISPOSAL CONSIDERATIONS

#### Waste Treatment Methods

**Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations. Do not discharge into drains/surface waters/ground water.

**Contaminated Packaging**

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

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Oxide 1305-78-8</td>
<td>Corrosive</td>
</tr>
</tbody>
</table>

### 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

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 - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

CERCLA

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA/SARA RQ</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene-2,4-diisocyanate 584-84-9</td>
<td>100 lb</td>
<td>100 lb</td>
<td>RQ 100 lb final RQ</td>
</tr>
<tr>
<td>Toluene 2,6-diisocyanate 91-08-7</td>
<td>100 lb</td>
<td>100 lb</td>
<td>RQ 100 lb final RQ</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories

Acute health hazard: Yes
Chronic Health Hazard: Yes
Fire hazard: Yes

SARA 313

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
<th>SARA 313 - Threshold Values %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene-2,4-diisocyanate - 584-84-9</td>
<td>584-84-9</td>
<td>&lt;0.50</td>
<td>0.1 1.0</td>
</tr>
<tr>
<td>Toluene 2,6-diisocyanate - 91-08-7</td>
<td>91-08-7</td>
<td>&lt;0.05</td>
<td>0.1 1.0</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>Titanium dioxide - 13463-67-7</td>
<td>Carcinogen</td>
</tr>
<tr>
<td>Carbon Black - 1333-86-4</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>Calcium Carbonate 1317-65-3</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>
</tr>
<tr>
<td>Talc 14807-96-6</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Stoddard solvent 8052-41-3</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Calcium Oxide 1305-78-8</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>
16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
<td>Not determined</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>2</td>
<td>1</td>
<td></td>
<td>Not determined</td>
</tr>
</tbody>
</table>

Issue Date 01-May-2013
Revision Date 01-Oct-2017
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