# Material Safety Data Sheet

0970 White, 0971 Black, 0972 Limestone PU Sealant

**MSDS No.** 0122 Rev. 4

Emergency Phone No.
800-535-5053 - INFOTRAC

## SECTION 1 – PRODUCT NAME & MANUFACTURER INFORMATION

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| **PRODUCT NAME** | Polyurethane Sealant Series: Window & Door, Masonry & Concrete & Blacktop & Roof |
| **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

| | % | TLV | PEL | UNITS |
|---|---|---|---|---|
| Calcium Carbonate ** (1317-65-3) (Contains Crystalline Silica @ 0.1 to 1.0% of CaCO3 filler) ** (14808-60-7) | 10 to 30 | 10 | 15 | mg/m3 |
| Methyl Oleate (112-62-9) | 5 to 10 | UN | UN | UN |
| Talc ** (14807-96-6) | 1 to 5 | 0.1*** | 0.3*** | mg/m3 |
| | | **** | 2 *** | mg/m3 |
| Stoddard Solvent (8052-41-3) | 1 to 5 | 100*** | 500 | ppm |
| | | | 2900 | mg/m3 |
| Calcium Oxide (1305-78-8) | 1 to 5 | UN | 5 | mg/m3 |
| Toluene-2,4-Diisocyanate (584-84-9) | 0.1 to 1.0 | 0.02 | UN | ppm |
| | | 0.14 | | mg/m3 |
| Carbon Black (1333-86-4) (in 0971 & 0972 only) | 0.1 to 1.0 | | 3.5 | mg/m3 |
| Titanium Dioxide ** (13463-67-7) (in 0970 & 0972 only) | 0.1 to 1.0 | 10*** | 15 | mg/m3 |
| Non-Haz Ingredients * | 40 to 50 | NE | NE | |

*Unlisted ingredients are not considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200). **Inhalation of particulates unlikely due to product's physical state. ***TWA.****ACGIH. Calculated VOC: <3.9% (<50 g/L). CARB Compliance: Yes. Prop 65 Ingredients: Yes (Section 16).

## SECTION 3 – HAZARDS IDENTIFICATION

**PRIMARY ROUTE(S) OF ENTRY** ☒ Skin Contact ☒ Skin Absorption ☒ Eye Contact ☒ Inhalation ☒ Ingestion

**EMERGENCY OVERVIEW**

White, black or limestone paste. Warning: Poison. Harmful if inhaled. Sensitization can occur in some individuals, leading to asthma-like spasms of the bronchial tubes & difficulty breathing. Individuals w/ a history of respiratory illness, asthmatic conditions, eye damage or TDI sensitization should not be exposed to this product. TDI is included in the NTP Annual Report on carcinogens. Results from a TDI health study indicate that overexposure to a respiratory irritant, resulting in lower respiratory tract symptoms could increase the risks of developing asthma-like reactions from subsequent TDI exposure. Contains material which can cause cancer.

**EFFECTS OF OVEREXPOSURE**

Eye Contact: May cause eye irritation. Skin Contact: May irritate skin. May cause drying, cracking, irritation & burns. Inhalation: Vapor harmful if inhaled. Can cause headache, irritation, nausea, drowsiness, stupor, coughing spells & allergic respiratory sensitization. Ingestion: May cause gastrointestinal irritation. Aspiration during swallowing or vomiting may cause lung damage & can be fatal. Chronic Hazards: Reports have associated permanent brain & nervous system damage w/ prolonged & repeated occupational overexposure to solvents. Intentional misuse by deliberately concentrating & inhaling vapors may be harmful or fatal. Fillers are encapsulated & are not expected to be released during normal use.

**CONDITIONS AGGRAVATED BY EXPOSURE**

Pre-existing eye, skin, liver & respiratory disorders/allergies, including asthma, bronchitis & emphysema may be aggravated w/ exposure. Allergies, eczema & other skin conditions may be aggravated.

## SECTION 4 – FIRST AID MEASURES

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| **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 immediately. |
| **INHALATION** | Remove to fresh air. Get medical attention immediately. |
| **INGESTION** | Do not induce vomiting. Get medical attention immediately. |

## SECTION 5 – FIRE FIGHTING MEASURES

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| **FLAMMABLE** | ☒ Yes ☐ No | | |
| **EXTINGUISHING MEDIA** | Water Fog, Foam, Carbon Dioxide | | |
| **FLASHPOINT (°F) & METHOD** | Approximately 101C | **UPPER EXPLOSIVE LIMIT (% BY VOLUME)** | NE |
| **LOWER EXPLOSIVE LIMIT (% BY VOLUME)** | NE | **AUTOIGNITION TEMPERTURE (°F)** | NE |
| **UNUSUAL FIRE & EXPLOSION HAZARDS** | Nitrous gases, fumes/smoke, isocyanates vapor | | |
| **SPECIAL FIREFIGHTING PROCEDURES** | Firefighters should be equipped w/ self-contained breathing apparatus & turn-out gear. | | |

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

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| **PROCEDURES** | Ensure adequate ventilation. Dike spill area. Do not discharge into drains/surface waters/groundwater. Absorb remaining liquid w/ absorbent material & place into appropriate containers. |

## SECTION 7 – HANDLING & STORAGE

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| **HANDLING PROCEDURES & EQUIPMENT** | Keep out of reach of children & pets. Keep containers closed when not in use. Protect containers from excessive heat & freezing. Protect against inhalation of vapor, ingestion & contact w/ skin & eyes. Precautionary statements also apply to empty containers. |
| **STORAGE REQUIREMENTS** | Formation of CO2 & build up of pressure possible. Protect against contamination. Keep container tightly closed & in well-ventilated area. Store @ temperatures between 65F & 105F. Protect against moisture. |

## SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION

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| **RESPIRATORY** | Select positive pressure supplied air respirator; not required under normal use w/ adequate ventilation. |
| **EYEWEAR** | Tightly fitting chemical safety goggles; wear face shield if splashing is a possibility. |
| **CLOTHING / GLOVES** | Prevent skin contact. Wear chemical resistant protective gloves (Neoprene, Pylox, Viton, Buna N). For body protection, wear saran-coated material. |
| **HYGENIC PRACTICES** | Eye wash fountains & safety showers must be accessible. Wash soiled clothing immediately. Wash hands w/ soap & water before breaks & @ end of day. |

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

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| **PHYSICAL STATE** | Paste | **ODOR & APPEARANCE** | White, black or limestone paste w/ solvent-like odor |
| **SPECIFIC GRAVITY** | Approximately 1.40 to 1.60 | **VAPOR DENSITY (AIR=1)** | Heavier than air. |
| **EVAPORATION RATE** | Slower than Butyl Acetate | **BOILING RANGE (°F)** | NE |
| **pH** | NA | **SOLUBILITY IN WATER** | Slightly soluble |
| **VAPOR PRESSURE (MM Hg)** | NE | **%/WT VOLATILE (TNV)** | NE |

## SECTION 10 – STABILITY AND REACTIVITY

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| **STABILITY** | ☒ Yes ☐ No | Stable under normal conditions. Reacts w/ water. Risk of bursting. Reacts w/ alcohols. Reacts w/ amines. Risk of exothermic reaction. Risk of polymerization. |
| **INCOMPATABILITY** | ☒ Yes ☐ No | Water, alcohols, strong bases |
| **CONDITIONS TO AVOID** | > 40C, Moisture | |
| **HAZARDOUS POLYMERIZATION/HAZARDOUS DECOMPOSITION PRODUCTS** | Hazardous polymerization will not occur under normal conditions. Hazardous decomposition products: TDI, carbon monoxide, hydrogen cyanide, nitrogen oxides, aromatic isocyanates, gases/vapors. | |

## SECTION 11 – TOXICOLOGICAL INFORMATION / CARCINOGENICITY

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| **ACUTE TOXICITY** | Oral: LD50/rat: 5800 mg/kg; slightly toxic. Inhalation: LC50/rat: </= 0.78 mg/l/1 hr; moderately toxic. LC50/rat: 0.1 mg/l/4 hr; moderately toxic. Dermal: LD50/rabbit: > 9400 mg/kg; practically nontoxic. Skin Irritation: Rabbit: (FHSA Guideline) |
| **CHRONIC TOXICITY** | General toxicity: The chemical structure does not suggest a mutagenic effect. Info on TDI: Substance was mutagenic in various test systems w/ bacterias & cell cultures; however, these results could not be confirmed in tests w/ mammals. |
| **CARCINOGENICITY** | No compound related carcinogenic effects. Info on TDI: A clear indication of an increased risk of cancer in humans, has so far not been shown. In long-term studies, a carcinogenic effect was observed when the substance was given orally to laboratory animals (gavage). Not carcinogenic in laboratory animals after long-term inhalation exposures. Info on Crystalline Silica: IARC has classified this substance as a Group 1 (known human carcinogen.) Info on Carbon Black: IARC has classified this substance as Group 2B (possibly carcinogenic to humans). In long-term animal studies in which the substance was given by inhalation in higher concentrations, a carcinogenic effect was observed. A clear indication of an increased risk of cancer in humans has so far not been shown. |
| **REPRODUCTIVE TOXICITY** | No reproductive effects. Info on TDI: Results of animal studies gave no indication of a fertility impairing effect. Developmental Toxicity/Teratogenicity: Info on TDI: No indication of a developmental toxic/teratogenic effect were seen in animal studies. Other Info on Stoddard Solvent: In tests w/ mammals a central nervous system disorder was observed. |
| **DATA WITH POSSIBLE RELEVANCE TO HUMANS** | Contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. |

## SECTION 12 – ECOLOGICAL INFORMATION

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| **AQUATIC TOXICITY & ENVIRONMENTAL** | Poorly biodegradable. Product unstable in water. Elimination data also refers to products of hydrolysis. Environmental: Acute & prolonged toxicity to fish: static, zebra fish/LC50 (24 hr): > 500 mg/l. Practically nontoxic. Acute toxicity to aquatic invertebrates: Grass shrimp/LC50 (96 hr): ~ 508 mg/l. Practically nontoxic. Pond snail/LC50 (24hr) > 500 mg/l. Practically nontoxic. Chronic toxicity to aquatic invertebrates: Daphnia magna EC50 (24 hr) ~ 750 mg/l. Practically nontoxic. Other terrestrial non-mammals: OECD Guideline 205 redwinged blackbird/LD50: 100 mg/kg = 100. OECD Guideline 205 European Starling/LD50: > 100 mg/kg = > 100. |

## SECTION 13 – DISPOSAL CONSIDERATIONS

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| **WASTE DISPOSAL** | TDI is listed as a hazardous waste under Section 261.33 (f) of EPA's RCRA regulations & requires a special handling for disposal. Incinerate waste containing TDI in a RCRA-licensed facility. RCRA: U223. |

## SECTION 14 – TRANSPORT INFORMATION

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| **SPECIAL SHIPPING INFORMATION** | Land transport: USDOT. Not classified as a dangerous good under transport regulations. Sea transport: IMDG. Not classified as a dangerous good under transport regulations. Air transport: IATA/ICAO. Not classified as a dangerous good under transport regulations. |

## SECTION 15 – REGULATORY INFORMATION

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| **CERCLA – SARA HAZARD CATEGORY** | SARA EPCRA 311/312: Acute, chronic | **U.S. STATE REGS** | See Section 16. |
| **SARA 313** | Toluene-2,4-diisocyanate (584-84-9) | **TSCA** | Released/listed. |
| | | **OSHA Haz Category** | IARC 1, 2A or 2B carcinogen. NTP listed carcinogen. Chronic target organ effects reported. OSHA PEL established, ACGIH TLV established |

## SECTION 16 – OTHER INFORMATION / SPECIAL PRECAUTIONS / LEGEND

Prop 65 Ingredients: (Known to State of California to cause cancer) Silica Quartz (14808-60-7) – present @ low levels in Calcium Carbonate Filler, Crystalline Silica. NJ Right-to-Know: (Top 5 Ingredients): Calcium Carbonate (1317-65-3), Methyl Oleate (112-62-9), Talc (14807-96-6), Stoddard Solvent (8052-41-3), Calcium Oxide (1305-78-8). HMIS Ratings: Health: 3, Flammability: 1, Reactivity: 0. Canadian WHMIS Class: Not required. WARNING: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. State RTK: Calcium Carbonate: MA, PA. Methyl Oleate: MA, Talc: MA, NJ, PA, Stoddard Solvent: MA, NJ, PA. Calcium Oxide: MA, NJ, PA. Crystalline Silica: MA, NJ, PA. Toluene-2,4-Diisocyanate: MA, NJ, PA. Carbon Black: MA, NJ, PA. Titanium Dioxide: MA, NJ, PA. INTERNATIONAL EMERGENCY NUMBER: 352-323-3500 - INFOTRAC

**LEGEND: NA – Not Applicable, NE – Not Established, UN – Unavailable, VOC – Volatile Organic Compound, PEL – Permissible Exposure Limit, TLV – Threshold Limit Value, STEL – Short Term Exposure Limit, MSDS – Material Safety Data Sheet, ACGIH – American Conference of Governmental Industrial Hygienists, SARA – Superfund Amendments & Reauthorization Act of 1986, OSHA – Occupational Safety & Health Administration, HMIS – Hazardous Materials Identification System, NTP – National Toxicology Program, CEIL – Ceiling Exposure Limit, CASRN (CAS Number) – Chemical Abstracts Service Registry Number, TSCA – Toxic Substances Control Act, NFPA – National Fire Protection Association. IARC – International Agency for Research on Cancer**

Reviewed By: Larry G. Brandon (NAME) VP Technology & General Manager (TITLE) March 14, 2012 (DATE)