



# MATERIAL SAFETY DATA SHEET

Sakrete Polyurethane Construction Adhesive

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Sakrete Polyurethane Construction Adhesive  
**Product Use:** Sealant.  
**Manufacturer/Supplier:** Sakrete of North America  
625 Griffith Rd., Ste 100 Charlotte, NC 28217  
**Phone Number:** 1-866-725-7383  
**Emergency Phone:** For Hazardous Materials [or Dangerous Goods] Incident  
Spill, Leak, Fire, Exposure, or Accident  
Call CHEMTREC Day or Night  
1-800-424-9300 [USA] / +1 703-527-3887 [CAN]  
**Date of Preparation:** January 31, 2018

## Section 2: HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

DANGER

MAY CAUSE RESPIRATORY SENSITIZATION. CORROSIVE MATERIAL - MAY CAUSE BURNS. MAY CAUSE TERATOGENICITY OR EMBRYOTOXICITY. MAY CAUSE CANCER.

**Potential Health Effects:** See Section 11 for more information.

**Likely Routes of Exposure:** Skin contact, eye contact, inhalation, and ingestion.

**Eye:** Irritating to eyes. May cause burns.

**Skin:** Irritating to skin. May cause burns.

**Ingestion:** May cause burns. May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

**Inhalation:** May cause respiratory tract irritation. May cause respiratory sensitization.

**Chronic Effects:** Contains ingredients known or suspected to be carcinogenic, teratogenic and/or embryotoxic. May cause sensitization by inhalation.

**Signs and Symptoms:** Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling. Symptoms may include redness, edema, drying, defatting and cracking of the skin. Cough, discomfort, difficulty breathing, or shortness of breath.

**Medical Conditions Aggravated By Exposure:** Asthma. Allergies.

**Target Organs:** Skin, eyes, gastrointestinal tract, respiratory system.

**Potential Environmental Effects:** May cause long-term adverse effects in the aquatic environment. See Section 12 for more information.

## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	CAS #	Wt. %
Titanium dioxide	13463-67-7	2 - 5
Calcium oxide	1305-78-8	1 - 2
Xylene	1330-20-7	1 - 2



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Ethylbenzene	100-41-4	0.1 - 1
4,4'-Diphenylmethane diisocyanate	101-68-8	0.1 - 1

### Section 4: FIRST AID MEASURES

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. Get medical attention immediately.

**Skin Contact:** In case of contact, immediately flush skin with plenty of soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Seek medical attention or call poison control immediately.

**General Advice:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).

**Note to Physicians:** Symptoms may not appear immediately.

### Section 5: FIRE FIGHTING MEASURES

**Flammability:** Not flammable by WHMIS criteria.

**Means of Extinction:**

**Suitable Extinguishing Media:** Treat for surrounding material.

**Unsuitable Extinguishing Media:** Not available.

**Products of Combustion:** May include, and are not limited to: oxides of carbon, oxides of nitrogen, hydrogen cyanide.

**Explosion Data:**

**Sensitivity to Mechanical Impact:** Not available.

**Sensitivity to Static Discharge:** Not available.

**Protection of Firefighters:** Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

### Section 6: ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

**Environmental Precautions:** Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

**Methods for Containment:** Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

**Methods for Clean-Up:** Scoop up material and place in a disposal container. Provide ventilation.

**Other Information:** Not available.

### Section 7: HANDLING AND STORAGE



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### **Handling:**

Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Handle and open container with care. Launder contaminated clothing before reuse. When using do not eat or drink. Wash hands before eating, drinking, or smoking.

### **Storage:**

Keep out of the reach of children. Keep container tightly closed and dry in a well-ventilated place. Store in a cool place, away from incompatibles.



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## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure Guidelines

Ingredient	Exposure Limits ACGIH-TLV
Titanium dioxide	10 mg/m <sup>3</sup>
Calcium oxide	2 mg/m <sup>3</sup>
Xylene	100 ppm
Ethylbenzene	20 ppm
4,4'-Diphenylmethane diisocyanate	0.005 ppm

**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

### Personal Protective Equipment:

**Eye/Face Protection:** Wear eye/face protection.

**Hand Protection:** Wear suitable gloves.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

**General Hygiene Considerations:** Handle according to established industrial hygiene and safety practices.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Paste-like compound.
<b>Colour:</b>	Gray.
<b>Odour:</b>	Mild odour.
<b>Odour Threshold:</b>	Not available.
<b>Physical State:</b>	Liquid.
<b>pH:</b>	Not available.
<b>Viscosity:</b>	Not available.
<b>Freezing Point:</b>	Not available.
<b>Boiling Point:</b>	~ 137 °C (~ 278.6 °F)
<b>Flash Point:</b>	None.
<b>Evaporation Rate:</b>	Not available.
<b>Lower Flammability Limit:</b>	Not available.
<b>Upper Flammability Limit:</b>	Not available.
<b>Vapor Pressure:</b>	Not available.
<b>Vapor Density:</b>	Not available.
<b>Specific Gravity:</b>	1.18
<b>Solubility in Water:</b>	Negligible.



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<b>Coefficient of Water/Oil Distribution:</b>	Not available.
<b>Auto-ignition Temperature:</b>	> 200 °C (> 392 °F)
<b>Percent Volatile, wt. %:</b>	Not available.
<b>VOC content, wt. g/L:</b>	34 g/L [Calculated SCAQMD Rule 443.1]

## Section 10: STABILITY AND REACTIVITY

**Stability:** Stable under normal storage conditions.

**Conditions of Reactivity:** Heat. Incompatible materials.

**Incompatible Materials:** Alcohols. Amines. Water.

**Hazardous Decomposition Products:** May include, and are not limited to: oxides of carbon, oxides of nitrogen, hydrogen cyanide.

**Possibility of Hazardous Reactions:** No dangerous reaction known under conditions of normal use.

## Section 11: TOXICOLOGY INFORMATION

### EFFECTS OF ACUTE EXPOSURE

#### Component Analysis

<b>Ingredient</b>	<b>LD<sub>50</sub> (oral)</b>	<b>LC<sub>50</sub></b>
Titanium dioxide	> 10000 mg/kg, rat	Not available.
Calcium oxide	> 2000 mg/kg, rat	Not available.
Xylene	4300 mg/kg, rat	5000 ppm 4hr, rat
Ethylbenzene	3500 mg/kg, rat	17.2 mg/L 4hr, rat
4,4'-Diphenylmethane diisocyanate	9200 mg/kg, rat	380 mg/m <sup>3</sup> 4hr, rat

**Eye:** Irritating to eyes. May cause burns. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

**Skin:** Irritating to skin. May cause burns. Symptoms may include redness, edema, drying, defatting and cracking of the skin.

**Ingestion:** May cause burns. May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

**Inhalation:** May cause respiratory tract irritation. May cause respiratory sensitization. Cough, discomfort, difficulty breathing, or shortness of breath.

### EFFECTS OF CHRONIC EXPOSURE

**Target Organs:** Not available.

**Chronic Effects:** Not hazardous by WHMIS criteria.

**Carcinogenicity:** Hazardous by WHMIS criteria.

<b>Ingredient</b>	<b>Chemical Listed as Carcinogen or Potential Carcinogen *</b>
Titanium dioxide	G-A4, I-2B
Calcium oxide	Not listed.
Xylene	G-A4, I-3
Ethylbenzene	G-A3, I-2B
4,4'-Diphenylmethane diisocyanate	I-3



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\* See Section 15 for more information.

**Mutagenicity:** Not hazardous by WHMIS criteria.

**Reproductive Effects:** Not hazardous by WHMIS criteria.



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## Developmental Effects:

**Teratogenicity:** Hazardous by WHMIS criteria.

**Embryotoxicity:** Hazardous by WHMIS criteria.

**Respiratory Sensitization:** Hazardous by WHMIS criteria.

**Skin Sensitization:** Not hazardous by WHMIS criteria.

**Toxicologically Synergistic Materials:** Not available.

## Section 12: ECOLOGICAL INFORMATION

**Ecotoxicity:** May cause long-term adverse effects in the aquatic environment.

**Persistence / Degradability:** Not available.

**Bioaccumulation / Accumulation:** Not available.

**Mobility in Environment:** Not available.

## Section 13: DISPOSAL CONSIDERATIONS

### Disposal Instructions:

This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

## Section 14: TRANSPORTATION INFORMATION

### TDG Classification

Limited Quantity

## Section 15: REGULATORY INFORMATION

### Federal Regulations

**Canada:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

### Global Inventories

#### Ingredient

Titanium dioxide

Calcium oxide

Xylene

Ethylbenzene

4,4'-Diphenylmethane diisocyanate

#### Canada

#### DSL/NDSL

DSL

DSL

DSL

DSL

DSL

### HMIS - Hazardous Materials Identification System

Health - 3\*

Flammability - 1

Physical Hazard - 0

PPE - B

### NFPA - National Fire Protection Association:

Health - 3

Fire - 1

Reactivity - 0

**Hazard Rating:** 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme



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### WHMIS Classification(s):

- Class D2A - Carcinogenicity
- Class D2A - Teratogenicity and Embryotoxicity
- Class D2A - Respiratory Sensitization
- Class E - Corrosive Material

### WHMIS Hazard Symbols:



### SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

#### ACGIH (G) American Conference of Governmental Industrial Hygienists.

- A1 - Confirmed human carcinogen.
- A2 - Suspected human carcinogen.
- A3 - Animal carcinogen.
- A4 - Not classifiable as a human carcinogen.
- A5 - Not suspected as a human carcinogen.

#### IARC (I) International Agency for Research on Cancer.

- 1 - The agent (mixture) is carcinogenic to humans.
- 2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.
- 2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.
- 3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.
- 4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

#### NTP (N) National Toxicology Program.

- 1 - Known to be carcinogens.
- 2 - Reasonably anticipated to be carcinogens.

### Section 16: OTHER INFORMATION

#### Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

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