SAFETY DATA SHEET

Section 1: IDENTIFICATION

1.1 PRODUCT IDENTIFIER
Product Name & Code: Sakrete Top 'N Bond

1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE
Use: Various.

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET
Name/Address: Sakrete of North America
625 Griffith Rd., Ste 100
Charlotte, NC
28217

Telephone Number: 866-725-7383

1.4 EMERGENCY TELEPHONE NUMBER
Emergency Telephone
Number: CHEMTREC 800-424-9300
INTERNATIONAL + 01-703-527-3887

Date of Preparation: October 25, 2013, Rev February 24, 2016
Version #: 1.0

Section 2: HAZARD(S) IDENTIFICATION

2.1 CLASSIFICATION OF THE CHEMICAL ACCORDING TO OSHA HAZCOM 2012
Hazard class
Acute toxicity 4 (Oral)
Skin irritation 2
Serious eye damage 1
Skin sensitization 1
Carcinogenicity 1A
Specific target organ toxicity - Single exposure 3
Specific target organ toxicity - Repeated exposure 1

2.2 LABEL ELEMENTS ACCORDING TO OSHA HAZCOM 2012
Hazard Pictogram:

Signal Word: Danger

Hazard Statement: Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May cause an allergic skin reaction. May cause cancer. May cause respiratory irritation. Causes damage to lungs through prolonged or repeated exposure.

Prevention: Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye
SAFETY DATA SHEET

Protection/face protection. Use only outdoors or in a well-ventilated area. Do not breathe dust.

Response:
If swallowed: Immediately call a poison center/doctor. Rinse mouth.
If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If exposed or concerned: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

Storage:
Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal:
Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3 ADDITIONAL INFORMATION
Hazards not otherwise classified: Not applicable.

28-36% of the mixture consists of ingredient(s) of unknown acute toxicity.
This product is a hazardous chemical as defined by NOM-018-STPS-2000.

Mexico Classification:

Blue = Health Red = Flammability Yellow = Reactivity White = Special

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

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 MIXTURES

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>UN #</th>
<th>H / F / R / *</th>
<th>CAS No</th>
<th>Wt. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica, crystalline, quartz</td>
<td>Not available.</td>
<td>Not available.</td>
<td>14808-60-7</td>
<td>40 - 70</td>
</tr>
<tr>
<td>Portland cement</td>
<td>Not available.</td>
<td>1/0/0</td>
<td>65997-15-1</td>
<td>15 - 40</td>
</tr>
</tbody>
</table>

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

* Per NOM-018-STPS-2000
Section 4: FIRST- AID MEASURES

4.1 DESCRIPTION OF THE FIRST AID MEASURE

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

Inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

Eye: Risk of serious damage to eyes. May cause serious chemical burns. Severe irritation, redness and pain.

Skin: Irritating to skin. May cause burns in the presence of moisture. Skin contact during hydration may slowly develop sufficient heat that may cause severe burns possibly resulting in permanent injury. Do not allow product to harden around any body part or allow continuous, prolonged contact with skin. May cause sensitization by skin contact.

Inhalation: May cause respiratory tract irritation.

Ingestion: Harmful if swallowed. May cause stomach distress, nausea or vomiting.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENTS NEEDED

Note to Physicians: Symptoms may not appear immediately.

Specific Treatments: In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).

Section 5: FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable Extinguishing Media: Treat for surrounding material.

Unsuitable Extinguishing Media: None known.

5.2 SPECIAL HAZARDS ARISING FROM THE CHEMICAL

Products of Combustion: May include, and are not limited to: oxides of carbon.

5.3 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).
Section 6: ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Avoid any contact with the skin and eyes.

6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING - UP

Methods for Containment: Contain spill, then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for Cleaning-Up: Vacuum or sweep material and place in a disposal container.

Section 7: HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Handling: Avoid contact with skin and eyes. Do not swallow. Good housekeeping is important to prevent accumulation of dust. Avoid generating and breathing dust. The use of compressed air for cleaning clothing, equipment, etc. is not recommended. Handle and open container with care. When using do not eat or drink. (See section 8)

General Hygiene Advice: Launder contaminated clothing before reuse. Wash hands before eating, drinking, or smoking.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage: Keep out of the reach of children. Store in dust-tight, dry, labeled containers. Keep containers closed when not in use. Avoid any dust buildup by frequent cleaning and suitable construction of the storage area. Do not store in an area equipped with emergency water sprinklers. (See section 10)

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Exposure Guidelines

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Occupational Exposure Limits</th>
<th>OSHA-PEL</th>
<th>ACGIH-TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica, crystalline, quartz</td>
<td>(((10 mg/m³)/(%SiO₂+2)) TWA (resp))</td>
<td></td>
<td>0.025 mg/m³</td>
</tr>
<tr>
<td></td>
<td>(((30 mg/m³)/(%SiO₂+2)) TWA (total))</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(((250)/(%SiO₂+5) mpcf TWA (resp))</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Portland cement</td>
<td>15 mg/m³ (total); 5 mg/m³ (resp)</td>
<td></td>
<td>1 mg/m³ (no asbestos and &lt;1% crystalline silica, respirable fraction)</td>
</tr>
</tbody>
</table>

8.2 EXPOSURE CONTROLS

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

Personal Protective Equipment:

Eye/Face Protection: Wear approved eye (properly fitted dust-or splash-proof chemical safety goggles) / face (face shield) protection.

Skin Protection:

Hand Protection: Wear suitable waterproof gloves.

Body Protection: Wear suitable waterproof protective clothing.

Respiratory Protection: A NIOSH approved dust mask or filtering facepiece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

General Health and Safety Measures: Handle according to established industrial hygiene and safety practices. Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Powder.
Color: Various.
Odor: Characteristic.
Odor Threshold: Not available.
Physical State: Solid.
pH: 12 - 13
Melting Point/Freezing Point: Not available.
Initial Boiling Point and Boiling Range: Not available.
Flash Point: Not available.
Evaporation Rate: Not available.
Flammability: Not Flammable.
Lower Flammability/Explosive Limit: Not available.
Upper Flammability/Explosive Limit: Not available.
Vapor Pressure: Not available.
Vapor Density: Not available.
Relative Density/Specific Gravity: Not available.
Solubility: Not available.
Partition coefficient: n-octanol/water: Not available.
Auto-ignition Temperature: Not available.
Decomposition Temperature: Not available.
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Viscosity: Not available.
Oxidizing Properties: Not available.
Explosive Properties: Not available.
Percent Volatile, wt. %: Not available.
VOC content, wt. %: 0%, Not applicable; 0 wt, Not applicable

Section 10: STABILITY AND REACTIVITY

10.1 REACTIVITY
No dangerous reaction known under conditions of normal use.

10.2 CHEMICAL STABILITY
Stable under normal storage conditions. Keep dry in storage.

10.3 POSSIBILITY OF HAZARDOUS REACTIONS
No dangerous reaction known under conditions of normal use.

10.4 CONDITIONS TO AVOID
Incompatible materials. Moisture.

10.5 INCOMPATIBLE MATERIALS
Wet cement is alkaline and incompatible with acid, ammonium salts and aluminum metal.

10.6 HAZARDOUS DECOMPOSITION PRODUCTS
May include, and are not limited to: oxides of carbon.

Section 11: TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS
Likely Routes of Exposure: Skin contact, eye contact, inhalation, ingestion and skin absorption.

Symptoms related to physical/chemical/toxicological characteristics:

Eye: Risk of serious damage to eyes. May cause serious chemical burns. Severe irritation, redness and pain.

Skin: Irritating to skin. May cause burns in the presence of moisture. Skin contact during hydration may slowly develop sufficient heat that may cause severe burns possibly resulting in permanent injury. Do not allow product to harden around any body part or allow continuous, prolonged contact with skin. May cause sensitization by skin contact.

Ingestion: Harmful if swallowed. May cause stomach distress, nausea or vomiting.

Inhalation: May cause respiratory tract irritation.

Acute Toxicity:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>IDLH</th>
<th>LC50</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica, crystalline, quartz</td>
<td>Ca ([25, \text{mg/m}^3, (\text{cristobalite, tridymite}); 50, \text{mg/m}^3, (\text{quartz, tripoli})])</td>
<td>Not available.</td>
<td>Oral Rat 500 mg/kg</td>
</tr>
<tr>
<td>Portland cement</td>
<td>5000 , \text{mg/m}^3</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
11.2 DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT- AND LONG-TERM EXPOSURE

Skin Corrosion/Irritation: Causes skin irritation. May cause burns in the presence of moisture.

Serious Eye Damage/Irritation: Corrosive to eyes. Causes burns.

Respiratory Sensitization: Based on available data, the classification criteria are not met.

Skin Sensitization: May cause an allergic skin reaction.

STOT-Single Exposure: May cause respiratory tract irritation.

Chronic Health Effects: Respirable crystalline silica in the form of quartz or cristobalite from occupational sources is listed by the International Agency for Research on Cancer (IARC) and National Toxicology Program (NTP) as a lung carcinogen. Prolonged exposure to respirable crystalline silica has been known to cause silicosis, a lung disease, which may be disabling. While there may be a factor of individual susceptibility to a given exposure to respirable silica dust, the risk of contracting silicosis and the severity of the disease is clearly related to the amount of dust exposure and the length of time (usually years) of exposure.

Carcinogenicity: May cause cancer.

Germ Cell Mutagenicity: Based on available data, the classification criteria are not met.

Reproductive Toxicity:

Developmental: Based on available data, the classification criteria are not met.

Fertility: Based on available data, the classification criteria are not met.

STOT-Repeated Exposure: Causes damage to lungs through prolonged or repeated exposure.

Aspiration Hazard: Based on available data, the classification criteria are not met.

Other Information: Not available.

Section 12: ECOLOGICAL INFORMATION

12.1 ECOTOXICITY

Acute/Chronic Toxicity: No ecological consideration when used according to directions. Normal dilution of this product to drains, sewers, septic systems and treatment plants is not considered environmentally harmful.
12.2 PERSISTENCE AND DEGRADABILITY
Not available.

12.3 BIOACCUMULATIVE POTENTIAL
Bioaccumulation: Not available.

12.4 MOBILITY IN SOIL
Not available.

12.5 OTHER ADVERSE EFFECTS
Not available.

Section 13: DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS
Disposal Method: This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

Other disposal recommendations: Not available.

Section 14: TRANSPORT INFORMATION

14.1 UN NUMBER
DOT NOM-004-SCT2-1994
Not regulated.

14.2 UN PROPER SHIPPING NAME
DOT NOM-004-SCT2-1994
Not applicable.

14.3 TRANSPORT HAZARD CLASS (ES)
DOT NOM-004-SCT2-1994
Not applicable.

14.4 PACKING GROUP
DOT NOM-004-SCT2-1994
Not applicable.

14.5 ENVIRONMENTAL HAZARDS
Not available.

14.6 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE
Not available.

14.7 SPECIAL PRECAUTIONS FOR USER
Do not handle until all safety precautions have been read and understood.
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Section 15: REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/ LEGISLATIONS SPECIFIC FOR THE CHEMICAL


Mexico: MSDS prepared pursuant to NOM-018-STPS-2000.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Section 302 (EHS)</th>
<th>Section 304 EHS RQ (lbs.)</th>
<th>CERCLA RQ (lbs.)</th>
<th>Section 313</th>
</tr>
</thead>
</table>

State Regulations

California Proposition 65:
This product contains Crystalline Silica, Quartz and may also contain trace amounts of other chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Global Inventories:

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>USA TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica, crystalline, quartz</td>
<td>Yes.</td>
</tr>
<tr>
<td>Portland cement</td>
<td>Yes.</td>
</tr>
</tbody>
</table>

NFPA-National Fire Protection Association:

<table>
<thead>
<tr>
<th>Health</th>
<th>Fire</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

HMIS-Hazardous Materials Identification System:

<table>
<thead>
<tr>
<th>Health</th>
<th>Fire</th>
<th>Physical Hazard</th>
</tr>
</thead>
<tbody>
<tr>
<td>3*</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

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

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

CP65 California Proposition 65
OSHA (O) Occupational Safety and Health Administration.
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.

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**Section 16: OTHER INFORMATION**

**Date of Preparation:** October 25, 2013

**Version:** 1.0

**Revision Date:** February 24, 2016

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[www.nexreg.com](http://www.nexreg.com)

**Prepared for:** Sakrete of North America

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**End of Safety Data Sheet**