



## MATERIAL SAFETY DATA SHEET

Date Prepared: September 30, 2009

### 1. PRODUCT/COMPANY IDENTIFICATION

**Product Name:**  
**Sakrete® All Purpose Gravel**

**Emergency Telephone:**  
800-424-9300 (Chemtrec) or  
703-527-3887 (Outside USA)

**Manufacturer's Name & Address:**  
Bonsal American/ an Oldcastle company  
8201 Arrowridge Blvd.  
Charlotte, NC 28273

**Telephone Number for Information:**  
704-525-1621

### 2. EMERGENCY AND FIRST AID

<b>EYES:</b>	Immediately flush eye thoroughly with water. Get medical attention if irritation persists.
<b>SKIN:</b>	N/A
<b>INHALATION:</b>	Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. Seek medical help if coughing and other symptoms do not subside.
<b>INGESTION:</b>	Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician if discomfort is experienced.

### 3. COMPOSITION INFORMATION

<b>DESCRIPTION:</b> Crystalline Silica (Quartz)	SiO <sub>2</sub>	CAS #14808-60-7
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#### 4. HAZARDOUS INGREDIENTS

COMPONENT	OSHA PEL	ACGIH TLV-TWA	NIOSH REL
----- Crystalline silica (CAS #14808-60-7)	----- <u>10 mg of respirable dust/m<sup>3</sup></u> % SiO <sub>2</sub> + 2	----- 0.5 mg respirable quartz/m <sup>3</sup>	----- 0.05 mg respirable quartz dust/m <sup>3</sup>

#### 5. HAZARD IDENTIFICATION

**POTENTIAL HEALTH EFFECTS:**

NOTE: Potential health effects may vary depending upon the duration and degree of exposure. To reduce or eliminate health hazards associated with this product, use exposure controls or personal protection methods as described in Section 12.

**EYE CONTACT:**

(Acute/Chronic) Exposure to airborne dust may cause immediate or delayed irritation or inflammation of the cornea.

**INHALATION:**

(Chronic) Inhalation exposure to free crystalline silica may cause delayed lung injury including silicosis, a disabling and potentially fatal lung disease, and/or cause or aggravate other lung diseases or conditions.

**CARCINOGENIC POTENTIAL:**

This product contains crystalline silica which IARC classifies as a known human carcinogen (Group I). The NTP, in its ninth Annual Report on Carcinogens, classified "silica, crystalline (respirable)" as a known carcinogen. (See also Sections 4 and 12.)

#### 6. ACCIDENTAL RELEASE MEASURES

Use clean-up methods that do not disperse dust into the air or entry into surface water. Material can be used if not contaminated. Place in an appropriate labeled container for disposal or use. Avoid inhalation of dust and contact with eyes. Use exposure control and personal protection methods as described in Section 12.

#### 7. PHYSICAL/CHEMICAL DATA

<b>APPEARANCE/ODOR:</b>	Gray, odorless	<b>PHYSICAL STATE:</b>	Solid
<b>BOILING POINT:</b>	> 1000°C	<b>MELTING POINT:</b>	> 1000°C
<b>VAPOR PRESSURE:</b>	Not applicable	<b>VAPOR DENSITY:</b>	Not applicable



**SOLUBILITY IN WATER:** Negligible (< 0.1% )  
**SPECIFIC GRAVITY (H<sub>2</sub>O = 1.0):** 2.5 – 2.8      **EVAPORATION RATE:** None

### 8. FIRE AND EXPLOSION

<b>FLASH POINT:</b>	None	<b>LOWER EXPLOSIVE LIMIT:</b>	None
<b>AUTO IGNITION TEMPERATURE:</b>	Not combustible	<b>UPPER EXPLOSIVE LIMIT:</b>	None
<b>FLAMMABLE LIMITS</b>	Not applicable	<b>SPECIAL FIRE FIGHTING PROCEDURES:</b>	None
<b>EXTINGUISHING MEDIA:</b>	Not combustible	<b>UNUSUAL FIRE AND EXPLOSION HAZARDS:</b>	None
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	None		

### 9. STABILITY AND REACTIVITY DATA

<b>STABILITY:</b>	Product is stable.
<b>INCOMPATIBILITY:</b>	Reacts with hydrofluoric acid to form volatile corrosive gas, Silicon Tetrafluoride.
<b>HAZARDOUS DECOMPOSITION:</b>	Will not occur.
<b>HAZARDOUS POLYMERIZATION:</b>	Will not occur.

### 10. PRECAUTIONS FOR HANDLING AND STORAGE

<b>HANDLING AND STORAGE</b>	Handle and store in a manner so that airborne dust does not exceed applicable exposure limits. Use adequate ventilation and dust collection. Use exposure control and personal protection methods as described in Section 12.
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### 11. TOXICOLOGICAL INFORMATION



See Section 5 for Hazard Identification. No recognized unusual toxicity to plants and animals.

Conditions aggravated by exposure: Eye disease, Skin disorders and Chronic Respiratory conditions.

## 12. EXPOSURE CONTROLS/PERSONAL PROTECTION

### RESPIRATORY PROTECTION:

Use local exhaust or general dilution ventilation to control dust levels below applicable exposure limits. Minimize dispersal of dust into the air.

If local or general ventilation is not adequate to control dust levels below applicable exposure limits or when dust causes irritation or discomfort, use MSHA/NIOSH approved respirators.

### EYE PROTECTION:

Wear safety glasses with side shields or goggles to avoid contact with the eyes. In extremely dusty environments and unpredictable environments, wear tight-fitting unvented or indirectly vented goggles to avoid eye irritation or injury.

## 13. DISPOSAL CONSIDERATIONS

### DISPOSAL:

All disposal methods must be in compliance with all Federal, State/ Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

**IF THIS MATERIAL AS PACKAGED, BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA FOR A HAZARDOUS WASTE AS DEFINED BY THE ENVIRONMENTAL PROTECTION AGENCY UNDER THE AUTHORITY OF THE RESOURCE CONSERVATION AND RECOVER ACT (40CFR 261), DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.**

Comply with all applicable local, state and federal regulations for disposal of unusable or contaminated materials. Dispose of packaging/containers according to local, state and federal regulations.

## 14. TRANSPORTATION DATA

Crystalline Silica is not hazardous under U.S. DOT or TDG regulations.

## 15. OTHER REGULATORY INFORMATION

### Status under US OSHA Hazard Communication Rule 29 CFR 1910.1200:

Crystalline Silica is considered a hazardous chemical under this regulation and should be included in the employer's hazard communication program.



<b>Status under CERCLA/Superfund, 40 CFR 117 and 302:</b>	Not listed.
<b>Hazard Category under SARA (Title III), Sections 311 and 312:</b>	Crystalline Silica qualifies as a hazardous substance with delayed health effects.
<b>Status under SARA (Title III), Section 313:</b>	Not subject to reporting requirements under Section 313.
<b>Status under California Proposition 65:</b>	This product contains crystalline silica, a substance known to the State of California to cause cancer. This product also may contain trace amounts of heavy metals known to the State of California to cause cancer, birth defects or other reproductive harm.
<b>Status under Canadian Environmental Protection Act:</b>	Not listed.

## 16. OTHER INFORMATION

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. It is the user's obligation to determine the conditions of safe use of this product.