MATERIAL SAFETY DATA SHEET

Date Prepared: September 30, 2008

1. PRODUCT/COMPANY IDENTIFICATION

Product Name:
SAKRETE® Mortar/Stucco Mix Type S (White or Gray)
SAKRETE® Mortar Mix Type N (White or Gray)

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

EMERGENCY INFORMATION: Sakrete® Type S and Type N Mortar Mixes are cementitious mixtures of cement, and sand. When in contact with moisture in eyes or on skin, or when mixed with water, it becomes highly caustic (pH > 12) and will damage or burn (as severely as third-degree) the eyes or skin. Inhalation may cause irritation to the moist mucous membranes of the nose, throat and upper respiratory system or may cause or may aggravate certain lung diseases or conditions. Use exposure controls or personal protection methods described in Section 12.

EYES: Immediately flush eye thoroughly with water. Continue flushing eye for at least 15 minutes, including under lids, to remove all particles. Call physician immediately.

SKIN: Wash skin with cool water and pH-neutral soap or a mild detergent. Seek medical treatment if irritation or inflammation develops or persists. Seek immediate medical treatment in the event of burns.

INHALATION: 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. Inhalation
of large amounts of Mortar Mix require immediate medical attention.

INGESTION: Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately.

### 3. COMPOSITION INFORMATION

**DESCRIPTION:**
This product consists of a heterogeneous mixture of hydraulic cement and sand. The major compounds are:

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL</th>
<th>ACGIH TLV-TWA</th>
<th>NIOSH REL</th>
<th>WEIGHT %</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hydraulic Cement</strong></td>
<td>5 mg respirable dust/m³</td>
<td>10 mg total dust/m³</td>
<td>-</td>
<td>19 - 25</td>
</tr>
<tr>
<td><strong>Calcium sulfate</strong> (CAS #7778-18-9) [Gypsum (CAS #13397-24-5)]</td>
<td>5 mg respirable dust/m³</td>
<td>10 mg total dust/m³</td>
<td>0.5 - 2.0</td>
<td></td>
</tr>
<tr>
<td><strong>Iron oxide</strong> (CAS #1309-37-1)</td>
<td>10 mg/m³</td>
<td>-</td>
<td>0.1 - 2.0</td>
<td></td>
</tr>
<tr>
<td><strong>Calcium carbonate</strong> (CAS #1317-65-3)</td>
<td>5 mg respirable dust/m³</td>
<td>10 mg total dust/m³</td>
<td>0.1 - 5.0</td>
<td></td>
</tr>
<tr>
<td><strong>Magnesium oxide</strong> (CAS #1309-48-4)</td>
<td>15 mg total dust/m³</td>
<td>10 mg total dust/m³</td>
<td>0.2 - 1.0</td>
<td></td>
</tr>
<tr>
<td><strong>Calcium oxide</strong> (CAS #1306-78-8)</td>
<td>5 mg/m³</td>
<td>2 mg/m³</td>
<td>1.0 - 5.0</td>
<td></td>
</tr>
<tr>
<td><strong>Crystalline silica</strong> (CAS #14808-60-7)</td>
<td>10 mg of respirable dust/m³ % SiO₂ + 2</td>
<td>0.5 mg respirable quartz/m³</td>
<td>0.05 mg respirable quartz dust/m³</td>
<td>&lt;80</td>
</tr>
</tbody>
</table>

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TRACE INGREDIENTS:
Due to the use of substances mined from the earth’s crust, trace amounts of naturally occurring, potentially harmful constituents may be detected during chemical analysis.

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. Eye contact by larger amounts of dry powder or splashes of wet Mortar Mix may cause effects ranging from moderate eye irritation to chemical burns and blindness.

SKIN CONTACT: (Acute) Exposure to dry Mortar Mix may cause drying of the skin with consequent mild irritation or more significant effects attributable to aggravation of other conditions. Discomfort or pain cannot be relied upon to alert a person to a hazardous skin exposure.

(Chronic) Dry Mortar Mix coming in contact with wet skin or exposure to wet Mortar Mix may cause more severe skin effects, including thickening, cracking or fissuring of the skin. Prolonged exposure can cause severe skin damage in the form of chemical (caustic) burns.

(Acute/Chronic) Some individuals may exhibit an allergic response upon exposure to Mortar Mix. The response may appear in a variety of forms ranging from a mild rash to severe skin ulcers.

INHALATION: (Acute) Exposure to Mortar Mix may cause irritation to the moist mucous membranes of the nose, throat and upper respiratory system. Pre-existing upper respiratory and lung diseases may be aggravated by 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.

INGESTION: (Acute/Chronic) Internal discomfort or ill effects are possible if large quantities are swallowed.
CARCINOGENIC POTENTIAL: Mortar Mix is not recognized as a carcinogen by NTP, OSHA, or IARC. However, it may contain trace amounts of heavy metals recognized as carcinogens by these organizations. In addition, it also 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

Contain material to prevent contamination of soil, surface water or ground water. Use dry 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 skin and eyes. Use exposure control and personal protection methods as described in Section 12.

7. PHYSICAL/CHEMICAL DATA

| APPEARANCE/ODOR: | Gray, odorless |
| BOILING POINT: | > 1000°C |
| VAPOR PRESSURE: | Not applicable |
| pH (IN WATER) (ASTM D 1293-95): | 12 to 13 |
| SPECIFIC GRAVITY (H₂O = 1.0): | 2.5 – 2.8 |

| PHYSICAL STATE: | Solid (Powder mixed with sand.) |
| MELTING POINT: | > 1000°C |
| VAPOR DENSITY: | Not applicable |
| SOLUBILITY IN WATER: | Slightly soluble (0.1% to 1.0%) |

8. FIRE AND EXPLOSION

| FLASH POINT: | None |
| AUTO IGNITION TEMPERATURE: | Not combustible |
| FLAMMABLE LIMITS | Not applicable |
| EXTINGUISHING MEDIA: | Not combustible |
| HAZARDOUS COMBUSTION | None |

| LOWER EXPLOSIVE LIMIT: | None |
| UPPER EXPLOSIVE LIMIT: | None |
| SPECIAL FIRE FIGHTING PROCEDURES: | None |
| UNUSUAL FIRE AND EXPLOSION HAZARDS: | None |
9. STABILITY AND REACTIVITY DATA

STABILITY: Product is stable. Keep dry until used.

CONDITIONS TO AVOID: Unintentional contact with water. Contact with water will result in hydration and produces (caustic) calcium hydroxide.

INCOMPATIBILITY: Wet Mortar Mix is alkaline. As such, it is incompatible with acids, ammonium salts and aluminum metal.

HAZARDOUS DECOMPOSITION: Will not occur.

HAZARDOUS POLYMERIZATION: Will not occur.

10. PRECAUTIONS FOR HANDLING AND STORAGE

HANDLING AND STORAGE Keep dry until used. 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.

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. Contact lenses should not be worn when handling cement or cement containing products.
SKIN PROTECTION: Wear impervious abrasion- and alkali-resistant gloves, boots, long-sleeved shirt, long pants or other protective clothing to prevent skin contact. Promptly remove clothing dusty with dry Mortar Mix or clothing dampened with moisture mixed with Mortar Mix, and launder before re-use. If contact occurs, wash areas contacted by material with pH neutral soap and water.

13. DISPOSAL CONSIDERATIONS

DISPOSAL: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. 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.

14. TRANSPORTATION DATA

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

Status under CERCLA/Superfund, 40 CFR 117 and 302: Not listed.

Hazard Category under SARA (Title III), Sections 311 and 312: Mortar Mix qualifies as a hazardous substance with delayed health effects.

Status under SARA (Title III), Section 313: Not subject to reporting requirements under Section 313.

Status under TSCA (as of May 1997): Some substances in Mortar Mix are on the TSCA inventory list.

Status under the Federal Hazardous Substances Act: Mortar Mix is a hazardous substance subject to statutes promulgated under the subject act.

Status under California Proposition 65: 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.

**Status under Canadian Environmental Protection Act:**

Not listed.

**Status under Canadian WHMIS:**

Mortar Mix is considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations (Class D2A, E - Corrosive Material) and subject to the requirements of WHMIS.

### 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.