SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture
Product Name: Limestone
Formula: CaCO₃
Synonyms: Calcium carbonate

1.2. Intended Use of the Product  Building material

1.3. Name, Address, and Telephone of the Responsible Party

Acme Brick Company
3024 Acme Brick Plaza
Fort Worth, TX 76109
Corporate Office: (817) 332-4101

1.4. Emergency Telephone Number

Emergency Number (817) 870-8348
Safety & Industrial Hygienist: (817) 870-8374

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Classification (GHS-US)
Handling or machining of these products may produce respirable dust particles. Inhalation of dust may cause cancer.

OSHA Regulatory status: This product is considered an ‘article’ under 29 CFR Part 1910.1200. Under normal conditions of use, users of the product cannot be exposed to its contents. If the article is damaged and/or material is released, contents are not harmful. For informational purposes, this product would have the following OSHA classification:
Chronic Health Hazard

2.3. Other Hazards

Excessive exposures to respirable limestone dust created by dry sawing, drilling, grinding, chopping, or crushing of stone or created by the cleanup and disposal of limestone dust and waste may over an extended period of time, result in the development of permanent and irreversible lung diseases, such as silicosis, tuberculosis, or lung cancer. This product may contain above >0.1% respirable silica dust. The higher the crystalline silica content of the dust, the greater the health risk.

2.4. Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

<table>
<thead>
<tr>
<th>Name</th>
<th>Product Identifier</th>
<th>%</th>
<th>Classification (GHS-US)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone</td>
<td>(CAS No) 1317-65-3</td>
<td>85 - 90</td>
<td>Not classified</td>
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<tr>
<td></td>
<td>(CAS No) 7631-86-9</td>
<td>&lt; 2</td>
<td>Not classified</td>
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<tr>
<td>Silica, amorphous</td>
<td>(CAS No) 14808-60-7</td>
<td>&lt; 1</td>
<td>Carc. 1A, H350</td>
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<td></td>
<td></td>
<td></td>
<td>STOT SE 3, H335</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>STOT RE 1, H372</td>
</tr>
</tbody>
</table>

Full text of H-phrases: see section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.

First-aid Measures After Inhalation: When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

First-aid Measures After Skin Contact: Remove contaminated clothing. Drench affected area with water for several minutes. Obtain medical attention if irritation develops or persists.

First-aid Measures After Eye Contact: Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking or redness persists. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid Measures After Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. **Most important symptoms and effects, both acute and delayed**

**Symptoms/Injuries:** Dust may cause mechanical irritation to eyes, nose, throat, and lungs. There are potential chronic health effects to consider.

**Symptoms/Injuries After Inhalation:** May cause cancer by inhalation. Limestone dust may cause congestion and irritation in nasal and respiratory passages.

**Symptoms/Injuries After Skin Contact:** Prolonged contact with large amounts of dust may cause mechanical irritation. Limestone dust or chips may cause allergic reactions.

**Symptoms/Injuries After Eye Contact:** Eye contact with large amounts of dust may cause mechanical irritation.

**Symptoms/Injuries After Ingestion:** Ingestion is likely to be harmful or have adverse effects. May cause gastrointestinal pain.

**Chronic Symptoms:** Breathing limestone dust may be associated with the development of scleroderma and kidney lesions and may aggravate existing respiratory conditions such as asthma, bronchitis and emphysema.

4.3. **Indication of Any Immediate Medical Attention and Special Treatment Needed**

If exposed or concerned, get medical advice and attention.

**SECTION 5: FIRE-FIGHTING MEASURES**

5.1. **Extinguishing Media**

**Suitable Extinguishing Media:** Alcohol-resistant foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream.

5.2. **Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Combustible Dust. Dust explosion hazard in air. Supports combustion. Under conditions of fire this material may produce: Carbon dioxide. Carbon monoxide.

**Explosion Hazard:** Avoid dust clouds in combination with static electricity. Dust clouds can be explosive.

**Reactivity:** Stable at ambient temperature and under normal conditions of use.

5.3. **Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Exercise caution when fighting any chemical fire. Do not allow runoff from firefighting to enter drains or water courses.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Thermal oxidative decomposition of calcium carbonate can produce calcium oxide.

**Other Information:** Refer to Section 9 for flammability properties.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1. **Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Avoid generating dust. Handle in accordance with good industrial hygiene and safety practice. Good housekeeping is needed during storage, transfer, handling, and use of this material to avoid excessive dust accumulation. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

6.1.1. **For Non-emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

6.1.2. **For Emergency Responders**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area. Eliminate ignition sources.

6.2. **Environmental Precautions**

Prevent entry to sewers and public waters.

6.3. **Methods and Material for Containment and Cleaning Up**

**Methods for Cleaning Up:** Avoid generation of dust during clean-up of spills. Contain and collect as any solid. Practice good housekeeping - spillage can be slippery on smooth surface either wet or dry.

6.4. **Reference to Other Sections**

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

**SECTION 7: HANDLING AND STORAGE**

7.1. **Precautions for Safe Handling**

**Precautions for Safe Handling:** Take precautionary measures against static discharge.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

7.2. **Conditions for Safe Storage, Including Any Incompatibilities**

**Storage Conditions:** Keep only in the original container in a cool, well ventilated place away from: Direct sunlight, Heat sources, incompatible products. Keep container closed when not in use. Protect from moisture.
Incompatible Products: Calcium carbonate ignites on contact with fluorine. It is incompatible with aluminum, ammonium salts & mercury + hydrogen. Strong acids. Strong bases. Strong oxidizers.

7.3 Specific End Use(s)
Building material

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters
For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

<table>
<thead>
<tr>
<th>Substance</th>
<th>USA NIOSH NIOSH REL (TWA) (mg/m³)</th>
<th>USA OSHA OSHA PEL (TWA) (mg/m³)</th>
<th>USA ACGIH ACGIH TWA (mg/m³)</th>
<th>USA ACGIH ACGIH chemical category</th>
<th>USA NIOSH NIOSH REL (TWA) (mg/m³)</th>
<th>USA IDLH US IDLH (mg/m³)</th>
<th>USA OSHA OSHA PEL (STEL) (mg/m³)</th>
<th>USA OSHA OSHA PEL (TWA) (mg/m³)</th>
<th>USA OSHA OSHA PEL (TWA) (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone</td>
<td>10 mg/m³ (total dust) 5 mg/m³ (respirable dust)</td>
<td>15 mg/m³ (total dust) 5 mg/m³ (respirable dust)</td>
<td>0.025 mg/m³ (respirable fraction)</td>
<td>A2 - Suspected Human Carcinogen</td>
<td>0.05 mg/m³ (respirable dust)</td>
<td>50 mg/m³ (respirable dust)</td>
<td>250 mppcf/%SiO₂+5, 10mg/m²/%SiO₂+2</td>
<td>6 mg/m³</td>
<td>20 mppcf (80mg/m³/%SiO₂)</td>
</tr>
<tr>
<td>Quartz</td>
<td></td>
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<td></td>
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<tr>
<td>Silica, amorphous</td>
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</tbody>
</table>

8.2 Exposure Controls
Appropriate Engineering Controls: Provide adequate ventilation to minimize dust concentrations. Ensure all national/local regulations are observed. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment.

Personal Protective Equipment:

- Materials for Protective Clothing: Chemically resistant materials and fabrics.
- Hand Protection: Wear protective gloves.
- Eye Protection: Chemical goggles or safety glasses.
- Skin and Body Protection: Wear suitable protective clothing.
- Respiratory Protection: Approved dust mask is required for some finishing operations such as sawing or sanding where dust is created.
- Environmental Exposure Controls: Do not allow the product to be released into the environment.
- Consumer Exposure Controls: Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties
- Physical State: Solid
- Appearance: Shaped solid. Limestones come in a wide range of body and surface colors.
- Odor: Odorless
- Odor Threshold: No data available
- pH: No data available
- Evaporation Rate: No data available
- Melting Point: No data available
- Freezing Point: No data available
- Boiling Point: No data available
- Flash Point: No data available
- Auto-ignition Temperature: No data available
Limestone
Safety Data Sheet
According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Decomposition Temperature : No data available
Flammability (solid, gas) : No data available
Vapor Pressure : No data available
Relative Vapor Density at 20 °C : No data available
Relative Density : No data available
Specific Gravity : 2.8
Solubility : Water: Negligible
Partition Coefficient: N-Octanol/Water : No data available
Viscosity : No data available

9.2. Other Information No additional information available

SECTION 10: STABILITY AND REACTIVITY
10.1. Reactivity: Stable at ambient temperature and under normal conditions of use.
10.2. Chemical Stability: Stable under normal conditions.
10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
10.4. Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Protect from moisture. Use good
housekeeping practices during storage, transfer, and handling, to avoid excessive dust accumulation.
10.5. Incompatible Materials: Calcium carbonate ignites on contact with fluorine. It is incompatible with aluminum,

SECTION 11: TOXICOLOGICAL INFORMATION
11.1. Information On Toxicological Effects
Acute Toxicity: Not classified

Quartz (14808-60-7)
LD50 Oral Rat > 5000 mg/kg
LD50 Dermal Rat > 5000 mg/kg

Silica, amorphous (7631-86-9)
LD50 Oral Rat > 5000 mg/kg
LD50 Dermal Rabbit > 2000 mg/kg
LC50 Inhalation Rat > 2.2 mg/l (Exposure time: 1 h)

Skin Corrosion/Irritation: Not classified
Serious Eye Damage/Irritation: Not classified
Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
Carcinogenicity: Not classified.

Quartz (14808-60-7)
IARC group 1
National Toxicology Program (NTP) Status Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List In OSHA Hazard Communication Carcinogen list.

Silica, amorphous (7631-86-9)
IARC group 3
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity (Single Exposure): Not classified
Specific Target Organ Toxicity (Repeated Exposure): Not classified
Aspiration Hazard: Not classified
Symptoms/Injuries After Inhalation: May cause cancer by inhalation.
Symptoms/Injuries After Skin Contact: Prolonged contact with large amounts of dust may cause mechanical irritation.
Symptoms/Injuries After Eye Contact: Eye contact with large amounts of dust may cause mechanical irritation.
Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.
Chronic Symptoms: Causes damage to organs through prolonged or repeated exposure. May cause cancer.

SECTION 12: ECOLOGICAL INFORMATION
12.1. Toxicity
Limestone

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.2. Persistence and Degradability

Limestone

Persistence and Degradability: Not established.

12.3. Bioaccumulative Potential

Limestone

Bioaccumulative Potential: Not established.

Silica, amorphous (7631-86-9)

BCF fish 1 (no bioaccumulation expected)

12.4. Mobility in Soil

No additional information available

12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

SECTION 14: TRANSPORT INFORMATION

14.1. In Accordance with DOT

Not regulated for transport

14.2. In Accordance with IMDG

Not regulated for transport

14.3. In Accordance with IATA

Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

Limestone

SARA Section 311/312 Hazard Classes

Delayed (chronic) health hazard

Limestone (1317-65-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Quartz (14808-60-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

SARA Section 311/312 Hazard Classes

Immediate (acute) health hazard

Delayed (chronic) health hazard

Silica, amorphous (7631-86-9)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2 US State Regulations

Quartz (14808-60-7)

U.S. - California - Proposition 65 - Carcinogens List

WARNING: This product contains chemicals known to the State of California to cause cancer.

Limestone (1317-65-3)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

Quartz (14808-60-7)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

Silica, amorphous (7631-86-9)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List
Limestone

Safety Data Sheet
According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date: 06/03/2015
Other Information: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carc. 1A</td>
<td>Carcinogenicity Category 1A</td>
</tr>
<tr>
<td>STOT RE 1</td>
<td>Specific target organ toxicity (repeated exposure) Category 1</td>
</tr>
<tr>
<td>STOT SE 3</td>
<td>Specific target organ toxicity (single exposure) Category 3</td>
</tr>
<tr>
<td>H335</td>
<td>May cause respiratory irritation</td>
</tr>
<tr>
<td>H350</td>
<td>May cause cancer</td>
</tr>
<tr>
<td>H372</td>
<td>Causes damage to organs through prolonged or repeated exposure</td>
</tr>
</tbody>
</table>

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

SDS US (GHS HazCom)