



# SAFETY DATA SHEET

MATERIAL: LIMESTONE

## Section 1 – Product Identification

### Product Identifier

**Product Name:** Limestone**Synonyms:** Carbonate rock, crushed stone, aggregates, manufactured sand, marble, calcite**Product Form:** Solid**Intended Use of Product:** Limestone is used to produce portland cement, and as aggregate in concrete and asphalt as well as for road base and soil stabilization.

### Name, Address and Telephone of Responsible Party

Holcim (US) Inc.  
24 Crosby Drive  
Bedford, MA 01730  
(888) 646-5246

### Emergency Contact Information:

CHEMTREC: 1-800-424-9300

## Section 2 – Hazards Identification

### Classification of the Substance or Mixture

#### Classification (GHS-US)

Respiratory irritant 3  
Eye irritant 2B

#### Label Elements

##### Hazard Pictograms



#### Signal Word

Warning

#### Hazard Statements

May cause respiratory irritation  
Causes eye irritation

#### Precautionary Statements

- |                   |  |
|-------------------|--|
| <b>Prevention</b> | Avoid breathing dust.<br>Wear eye protection/face protection.<br>Wash thoroughly after handling.<br>Do not eat, drink or smoke when using this product.<br>Use only outdoors or in well-ventilated area.   |
| <b>Response</b>   | <b>If inhaled:</b> Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell.<br><b>If in eyes:</b> Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.<br><b>If on skin:</b> No special response indicated.<br><b>If swallowed:</b> No special response indicated. |
| <b>Storage</b>    | Store in a well-ventilated place. Keep container tightly closed.   |
| <b>Disposal</b>   | Dispose of contents/container in accordance with local/state/national regulations.   |

#### Other Hazards

None determined.

### Section 3 – Composition/Information on Ingredients

Component/Ingredient	CAS #	Percent Present (Range)
Limestone (Calcium Carbonate)	1317-65-3	95 - 100
Nuisance Dusts (Particulates not otherwise regulated)	None	< 1 - 5

#### Other Components

Calcium carbonate (limestone) is mined from the earth. Trace amounts of naturally occurring chemical compounds might be detected during chemical analysis. These may include magnesium carbonate, small amounts of free crystalline or amorphous silica, aluminum silicates, iron oxide and aluminum oxide.

### Section 4 – First Aid Measures

#### Description of First Aid Measures

- Eyes** Rinse eyes and under lids cautiously with clean water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- Skin** No special measures required.
- Inhalation** Remove person to fresh air away from dust and keep comfortable for breathing. If symptoms persist, obtain medical attention.
- Ingestion** No special measures required.

#### Important Symptoms and Effects (Acute and Delayed)

- Eyes** May cause eye irritation and may scratch eye surface due to particle abrasion.
- Skin** None expected.
- Inhalation** May irritate nose and throat if dust is inhaled. May cause coughing, sneezing, mucous discharge or dyspnea (shortness of breath).
- Ingestion** None expected.

#### Recommendations for Immediate Medical Care or Special Treatment

Seek immediate medical attention for inhalation of large quantities of dust. Seek immediate medical attention if material comes into contact with eyes and cannot be immediately removed.

### Section 5 – Fire Fighting Measures

- General Fire Hazards** None. Material is not considered flammable or combustible.
- Extinguishing Media** Use water or water spray to extinguish any fires involving this material.
- Extinguishing Media to Avoid** None.
- Hazards of Combustion** None.
- Fire Fighting Recommendations** Firefighters should always wear full protective gear to fight any fire. Refer to Section 9 for flammability information.

### Section 6 – Accidental Release Measures

- Precautions** Avoid creating dust.
- Personal Protection** Wear respiratory protection and protective eyewear to avoid eye contact.
- Emergency Procedures** Ventilate area and avoid creating dust. Remove unnecessary persons from area.
- Containment Procedures** Barricade solid material to prevent additional spillage.
- Clean Up Procedures** Scoop or vacuum up spilled material while avoiding dust creation.

### Section 7 – Handling and Storage

- Safe Handling Practices** Avoid contact with eyes. Avoid breathing dust. Use only in well ventilated areas. Wear appropriate personal protective equipment to prevent eye contact and use respiratory protection equipment if dusty or in poorly ventilated areas.
- Safe Storage Measures** Store in well-ventilated areas away from incompatible materials. If stored in containers, keep containers closed when not in use.
- Incompatible Materials** Keep away from fluoride compounds, strong acids and oxidizers.

## Section 8 – Exposure Controls & Personal Protection

### Exposure Limits for Individual Components (T= Total Respirable, R=Respirable fraction, I=Inhalable-aerosol)

Component	OSHA PEL	ACGIH TLV	NIOSH REL
Limestone (Calcium Carbonate)	15 mg/m <sup>3</sup> (T); 5 mg/m <sup>3</sup> (R)	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> (T); 5 mg/m <sup>3</sup> (R)
Nuisance Dusts (PNOR)	15 mg/m <sup>3</sup> (T); 5 mg/m <sup>3</sup> (R)	10 mg/m <sup>3</sup>	Not established

### Exposure Controls

#### Engineering Controls

Use outdoors in well-ventilated areas; otherwise employ natural or mechanical ventilation to maintain exposure within applicable limits.

#### Personal Protection

Avoid contact with skin or eyes. Avoid creating or breathing dust.

##### Face and Eyes

Safety glasses with side shields or protective goggles should be worn while using this product. For extremely dusty conditions, non-vented goggles or goggles with indirect venting are recommended. Avoid contact lens wear when using this product.

##### Body

Long sleeved shirts and trousers should be worn while using this material.

##### Respiratory

If exposure levels cannot be maintained below acceptable limits, suitable particulate-filtering facemasks or respirators approved by MSHA/NIOSH should be worn in accordance with the user's respiratory protection program and OSHA/MSHA guidelines.

##### Hands

No special precautions are indicated.

## Section 9 – Physical and Chemical Properties

Physical State	Solid, powder or rock	Specific Gravity	2.8
Appearance & Color	Grey/white powder or rock	Flash Point/Method	None. Not flammable.
Odor	None	Auto Ignition Temperature	Not determined
pH	8 - 9	Lower Flammability Limit	Not applicable
Boiling Point	Not applicable	Upper Flammability Limit	Not applicable
Solubility (Water)	Negligible (<5%)	Octanol/H <sub>2</sub> O Coefficient	Not determined
Evaporation Rate	Not applicable	Viscosity	Not applicable
Melting Point	825°C	Freezing Point	Solid at room temperature
Vapor Density	Not applicable	Explosion Risk: Static	Not considered a hazard
Vapor Pressure	Not applicable	Explosion Risk: Shock	Not considered a hazard

## Section 10 – Stability and Reactivity

### Reactivity

Stable material. Not considered reactive.

### Chemical Stability

Stable at standard temperature and pressures.

### Hazardous Reactions

None. Hazardous polymerization will not occur.

### Conditions to Avoid

Exposure to strong acids or fluorine

### Incompatible Materials

Limestone ignites on contact with fluorine and is incompatible with acids, alum, ammonium salts, and magnesium.

### Decomposition Hazards

Calcium oxide and carbon dioxide generated when material melts

## Section 11 – Toxicological Information

### Product: Limestone

#### Acute Toxicity

Not classified.

#### LD50/LC50 Data

Oral LD50 Rat 6450 mg/kg

#### Skin Corrosion/Irritation

Not reported/no data available.

#### Critical Eye Damage/Irritation

May cause eye injury due to particle abrasion and mechanical irritation.

#### Respiratory or Skin Sensitization

Not reported/no data available.

#### Germ Cell Mutagenicity

Not reported/no data available.

#### Teratogenicity

Not reported/no data available.

#### Carcinogenicity

Not reported/no data available.

#### Specific Organ Toxicity (Single Exposure)

Not reported/no data available.

#### Specific Organ Toxicity (Repeated Exposure)

May cause damage to lungs through repeated or prolonged exposure to respirable dust.

#### Reproductive Toxicity

Not reported/no data available.

**Aspiration Respiratory Hazard**

Not reported/no data available.

**Symptoms: Inhalation**

Coughing, sneezing, mucous discharge and dyspnea.

**Symptoms: Skin Contact**

May cause localized reddening through mechanical abrasion.

**Symptoms: Eye Contact**

Redness and itching. Extended contact may lead to corneal abrasion/ulceration.

**Symptoms: Ingestion**

None.

**Other Toxicological Information**

No additional data available.

**Components****Toxicity****Carc: IARC****Carc: NTP****Carc: OSHA**

Limestone (Calcium carbonate)	Oral LD50 Rat 6450 mg/kg	Not listed	Not listed	Not listed
Nuisance Dusts (PNOR)	No data	Not listed	Not listed	Not listed

## Section 12 – Ecological Information

**General Ecotoxicity**

Not classified.

**Persistence and Degradability**

Not reported/no data available.

**Bioaccumulation Potential**

Not reported/no data available.

**Mobility in Soil to Groundwater**

Not reported/no data available.

**Environmental Fate**

Not reported/no data available.

**Other Environmental**

None.

**Precautions or Information**

## Section 13 – Disposal Considerations

**Disposal Methods**

Dispose as an inert, non-metallic mineral in accordance with applicable federal, state, and local regulations.

**Special Considerations**

Avoid creation or breathing dust during disposal. Avoid contact with eyes.

**Other Disposal Information**

None.

## Section 14 – Transport Information

**Proper Shipping Name**

N/A – not regulated.

**Hazard Class**

N/A – not regulated.

**UN Shipping ID Number**

N/A – not regulated.

**Packing Group**

N/A – not regulated.

**Environmental/IMDG Codes**

N/A – not regulated.

## Section 15 – Regulatory Information

**Federal**

This product contains one or more chemical components or ingredients that may require identification and/or reporting under SARA Section 302, SARA Section 311/312/313, CERCLA and/or TSCA. An examination of the components of this product should be conducted by a qualified environmental professional to determine if such identification or reporting is required by federal law.

- Components: Limestone (Calcium carbonate)

**State**

This product contains one or more chemical components or ingredients that are included or listed on the hazardous substances lists for one or more of the following states: California, Maine, Minnesota, New Jersey, Pennsylvania and Rhode Island. An examination of the components of this product should be conducted by a qualified environmental or safety and health professional to determine the specific requirements for those states.

- Components: Limestone (Calcium carbonate)

**Section 16 – Other Information****Date of last revision:** May 12, 2015**Prepared and reviewed by:** Holcim (US) Inc. Occupational Safety & Health**Other important information:**

While the information provided in this document is believed to provide a useful summary of the hazards of limestone, the information in this document cannot anticipate and provide all of the information that might be needed in every situation. Inexperienced product users should obtain proper training before using this product.

The data furnished in this document do not address hazards that may be posed by other materials when mixed with limestone. Users should review other relevant safety data sheets before working with this product.

The information presented in the Safety Data Sheet is based on current knowledge and publications and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not be interpreted as guaranteeing any specific property of the product.

**SELLER MAKES NO WARRANTY, EXPRESSED OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY HOLCIM (US) INC., EXCEPT THAT THE PRODUCT SHALL CONFORM TO CONTRACTED SPECIFICATIONS.**

**--END OF SAFETY DATA SHEET--**