

# Limestone

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations  
 Revision Date: 11/16//2016 Date of Issue : 11/16/2016

Version: 1.0

### SECTION 1: IDENTIFICATION

#### 1.1. Product Identifier

**Product Form:** Mixture  
**Product Name:** Limestone

#### 1.2. Intended Use of the Product

**Use of the Substance/Mixture:** No use is specified.

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

##### Manufacturer

Elmhurst - Chicago Stone Company  
 400 West First Street  
 Elmhurst, IL 60126-0057  
 T (630) 832-4000

#### 1.4. Emergency Telephone Number

**Emergency Number** : (630) 832-4000

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

##### GHS-US Classification

Carc. 1A H350  
 STOT RE 1 H372

Full text of hazard classes and H-statements : see section 16

#### 2.2. Label Elements

##### GHS-US Labeling

##### Hazard Pictograms (GHS-US)



##### Signal Word (GHS-US)

: Danger

##### Hazard Statements (GHS-US)

: H350 - May cause cancer (Inhalation).  
 H372 - Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation).

##### Precautionary Statements (GHS-US)

: P201 - Obtain special instructions before use.  
 P202 - Do not handle until all safety precautions have been read and understood.  
 P260 - Do not breathe dust.  
 P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
 P270 - Do not eat, drink or smoke when using this product.  
 P280 - Wear protective gloves, protective clothing, and eye protection.  
 P308+P313 - If exposed or concerned: Get medical advice/attention.  
 P314 - Get medical advice/attention if you feel unwell.  
 P405 - Store locked up.  
 P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

#### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

#### 2.4. Unknown Acute Toxicity (GHS-US)

No data available

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

| Name      | Product Identifier | %   | GHS-US classification |
|-----------|--------------------|-----|-----------------------|
| Limestone | (CAS No) 1317-65-3 | 100 | Not classified        |

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|        |                     |         |  |
|--------|---------------------|---------|--|
| Quartz | (CAS No) 14808-60-7 | 0.1 - 1 | Carc. 1A, H350<br>STOT SE 3, H335<br>STOT RE 1, H372 |
|--------|---------------------|---------|--|

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 you feel unwell, seek medical advice (show the label where possible).

**First-aid Measures Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

**First-aid Measures After Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

**First-aid Measures After Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

#### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**Symptoms/Injuries:** May cause cancer. Causes damage to organs through prolonged or repeated exposure.

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation. Repeated or prolonged exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss.

**Symptoms/Injuries After Skin Contact:** Prolonged exposure may cause skin irritation.

**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** May cause cancer by inhalation. Causes damage to organs (lungs) (inhalation). Repeated exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis. Pre-existing lung diseases such as emphysema or asthma may be aggravated by exposure to dusts. Pulmonary function may be reduced by inhalation of respirable crystalline silica. Also lung scarring produced by such inhalation may lead to a progressive massive fibrosis of the lung which may aggravate other pulmonary conditions and diseases and which increases susceptibility to pulmonary tuberculosis. Progressive massive fibrosis may be accompanied by right heart enlargement, heart failure, and pulmonary failure. Smoking aggravates the effects of exposure. Some studies show that exposure to respirable crystalline silica (without silicosis) or that the disease silicosis may be associated with the increased incidence of several autoimmune disorders such as scleroderma (thickening of the skin), systemic lupus erythematosus, rheumatoid arthritis and diseases affecting the kidneys. Silicosis increases the risk of tuberculosis. Some studies show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

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

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Water spray, dry chemical, foam, carbon dioxide.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

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

**Fire Hazard:** Not flammable.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

#### 5.3. Advice for Firefighters

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

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

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

**Hazardous Combustion Products:** Carbon monoxide. Carbon dioxide. Silica compounds.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

**General Measures:** Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not handle until all safety precautions have been read and understood.

##### 6.1.1. For Non-Emergency Personnel

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

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**Emergency Procedures:** Evacuate unnecessary personnel.

### 6.1.2. For Emergency Personnel

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

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Recover the product by vacuuming, shoveling or sweeping. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Avoid contact with eyes, skin and clothing.

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

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

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Products:** Strong acids, strong bases, strong oxidizers. Hydrofluoric Acid. Metals. Ammonium salts.

### 7.3. Specific End Use(s)

No use is specified.

## 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), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

| Limestone (1317-65-3)                        |                                      |  |
|--|--------------------------------------|--|
| USA NIOSH                                    | NIOSH REL (TWA) (mg/m <sup>3</sup> ) | 10 mg/m <sup>3</sup> (total dust)<br>5 mg/m <sup>3</sup> (respirable dust)     |
| USA OSHA                                     | OSHA PEL (TWA) (mg/m <sup>3</sup> )  | 15 mg/m <sup>3</sup> (total dust)<br>5 mg/m <sup>3</sup> (respirable fraction) |
| Quartz (14808-60-7)                          |                                      |  |
| USA ACGIH                                    | ACGIH TWA (mg/m <sup>3</sup> )       | 0.025 mg/m <sup>3</sup> (respirable fraction)                                  |
| USA ACGIH                                    | ACGIH chemical category              | A2 - Suspected Human Carcinogen  |
| USA NIOSH                                    | NIOSH REL (TWA) (mg/m <sup>3</sup> ) | 0.05 mg/m <sup>3</sup> (respirable dust)                                       |
| USA IDLH                                     | US IDLH (mg/m <sup>3</sup> )         | 50 mg/m <sup>3</sup> (respirable dust)   |
| USA OSHA                                     | OSHA PEL (STEL) (mg/m <sup>3</sup> ) | 250 mppcf/%SiO <sub>2</sub> +5, 10mg/m <sup>3</sup> /%SiO <sub>2</sub> +2      |
| Particulates not otherwise classified (PNOC) |                                      |  |
| USA ACGIH                                    | ACGIH TWA (mg/m <sup>3</sup> )       | 3 mg/m <sup>3</sup> Respirable fraction<br>10 mg/m <sup>3</sup> Total Dust     |
| USA OSHA                                     | OSHA PEL (TWA) (mg/m <sup>3</sup> )  | 5 mg/m <sup>3</sup> Respirable fraction<br>15 mg/m <sup>3</sup> Total Dust     |

### 8.2. Exposure Controls

#### Appropriate Engineering Controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

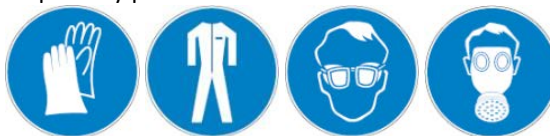
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### Personal Protective Equipment

: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



### Materials for Protective Clothing

: Chemically resistant materials and fabrics.

### Hand Protection

: Wear protective gloves.

### Eye Protection

: Chemical safety goggles.

### Skin and Body Protection

: Wear suitable protective clothing.

### Respiratory Protection

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

### Other Information

: When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

|  |  |
|--|--|
| Physical State                         | : Solid  |
| Appearance                             | : Angular, gray, white and tan solid particles ranging in size |
| Odor                                   | : No odor  |
| Odor Threshold                         | : No data available  |
| pH                                     | : 9.4 - Saturated solution CaCO <sub>3</sub>                   |
| 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  |
| 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                       | : 2.6 - 2.75   |
| Solubility                             | : Water: Slightly soluble in water - 90.001% by weight         |
| 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:** Hazardous reactions will not occur under normal conditions.
- 10.2. Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).
- 10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.
- 10.4. Conditions to Avoid:** Incompatible materials.
- 10.5. Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Hydrofluoric acid. Metals. Ammonium salts.
- 10.6. Hazardous Decomposition Products:** Thermal decomposition generates: Carbon monoxide. Carbon dioxide. Silica compounds. Quartz (silica) will dissolve in hydrofluoric acid producing a corrosive gas, silicon tetrafluoride.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects

**Acute Toxicity:** Not classified

|  |   |
|--|---|
| <b>Quartz (14808-60-7)</b>                       |   |
| LD50 Oral Rat                                    | > 5000 mg/kg  |
| LD50 Dermal Rat                                  | > 5000 mg/kg  |
| <b>Skin Corrosion/Irritation:</b> Not classified | <b>pH:</b> 9.4 - Saturated solution CaCO <sub>3</sub> |

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**Serious Eye Damage/Irritation:** Not classified      **pH:** 9.4 - Saturated solution CaCO<sub>3</sub>  
**Respiratory or Skin Sensitization:** Not classified  
**Germ Cell Mutagenicity:** Not classified  
**Carcinogenicity:** May cause cancer (Inhalation).

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

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation).

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation. Repeated or prolonged exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss.

**Symptoms/Injuries After Skin Contact:** Prolonged exposure may cause skin irritation.

**Symptoms/Injuries After Eye Contact:** May cause slight irritation to eyes.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** May cause cancer by inhalation. Causes damage to organs (lungs) (inhalation). Repeated exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis. Pre-existing lung diseases such as emphysema or asthma may be aggravated by exposure to dusts. Pulmonary function may be reduced by inhalation of respirable crystalline silica. Also lung scarring produced by such inhalation may lead to a progressive massive fibrosis of the lung which may aggravate other pulmonary conditions and diseases and which increases susceptibility to pulmonary tuberculosis. Progressive massive fibrosis may be accompanied by right heart enlargement, heart failure, and pulmonary failure. Smoking aggravates the effects of exposure. Some studies show that exposure to respirable crystalline silica (without silicosis) or that the disease silicosis may be associated with the increased incidence of several autoimmune disorders such as scleroderma (thickening of the skin), systemic lupus erythematosus, rheumatoid arthritis and diseases affecting the kidneys. Silicosis increases the risk of tuberculosis. Some studies show an increased incidence of chronic kidney disease and end-stage renal disease in workers exposed to respirable crystalline silica.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecology - General** : Not classified.

### 12.2. Persistence and Degradability

|                                      |                  |
|--------------------------------------|------------------|
| <b>Limestone</b>                     |                  |
| <b>Persistence and Degradability</b> | Not established. |

### 12.3. Bioaccumulative Potential

|                                  |                  |
|----------------------------------|------------------|
| <b>Limestone</b>                 |                  |
| <b>Bioaccumulative Potential</b> | Not established. |

**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 contents/container in accordance with local, regional, national, and international regulations.

**Additional Information:** Container may remain hazardous when empty. Continue to observe all precautions.

**Ecology - Waste Materials:** Avoid release to the environment.

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## 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 |                                 |

### 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<br>U.S. - New Jersey - Right to Know Hazardous Substance List<br>U.S. - Pennsylvania - RTK (Right to Know) List |  |
| Quartz (14808-60-7)   |  |
| U.S. - Massachusetts - Right To Know List<br>U.S. - New Jersey - Right to Know Hazardous Substance List<br>U.S. - Pennsylvania - RTK (Right to Know) List |  |

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

|                   |  |
|-------------------|--|
| Revision Date     | : 11/16/2016   |
| 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:

|           |  |
|-----------|--|
| Carc. 1A  | Carcinogenicity Category 1A                                    |
| STOT RE 1 | Specific target organ toxicity (repeated exposure) Category 1  |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3    |
| H335      | May cause respiratory irritation                               |
| H350      | May cause cancer   |
| H372      | Causes damage to organs through prolonged or repeated exposure |

*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)