

# SHELBY CRUSHED STONE INC. SAFETY DATA SHEET (SDS)



Issue Date:6/23/16

## 1. Identification

Product Identifier

Other means of identification

Synonyms

Recommended Use

**Hydrated Lime**

Chemical Hydrate, Commercial Hydrate, Hyd Lime chem, Industrial Hydrate

Water Treatment, Caustic agent pH adjustment, construction, agriculture

## Manufacturer Information

Company Name

Address

Telephone

Website

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Contact Person

Emergency Phone Number

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## 2. Hazard(s) Identification

Physical Hazards

Health Hazards

Not classified

Carcinogenicity

Specific Target Organ Toxicity

Eye Damage

Skin Irritation

Category 1A

Category 3

Category 1

Category 2



Signal Word

Hazard Statement

Precautionary Statement

Prevention

Response

Storage

Disposal

Danger

May cause cancer. May cause damage to organs (lung) through prolonged or repeated exposure

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/protective clothing/eye protection/face protection.

If exposed or concerned: Get medical advice/attention.

Restrict or control access to stockpile areas. Engulfment hazard: To prevent burial or suffocation, do not enter a confined space, such as a silo, bulk truck or other storage container or vessel that stores or contains aggregates without an effective procedure for assuring safety.

Dispose of contents/container in accordance with Local/Regional regulations.

Hazard(s) not otherwise Classified (HNOC)

None known.

### Supplemental Information

Respirable Crystalline Silica (RCS) may cause cancer. Limestone is a naturally occurring mineral complex that contains varying quantities of quartz (crystalline silica). In its natural bulk state, limestone is not a known health hazard. Limestone may be subjected to various natural or mechanical forces that produce small particles (dust) which may contain respirable crystalline silica (particles less than 10 micrometers in aerodynamic diameter). Repeated inhalation of respirable crystalline silica (quartz) may cause lung cancer according to IARC and NTP; ACGIH states that it is a suspected cause of cancer. Other forms of RCS (e.g., tridymite and cristobalite) may also be present or formed under certain industrial processes.

### 3. Composition/information on ingredients

#### Mixtures

Chemical Name	CAS number	%
Calcium Carbonate	1317-65-3	>50
Crystalline Silica (Quartz)	14808-60-7	>0.1

### 4. First-aid measures

<b>Inhalation</b>	Limestone dust: Move to fresh air. Call a physician if symptoms develop or persist.
<b>Skin contact:</b>	Limestone dust: Wash off with soap and water. Get medical attention if irritation develops and persists.
<b>Eye contact:</b>	Limestone dust: Immediately flush with plenty of water for at least 15 minutes. Hold eyelids apart. Occasionally lift the eyelid(s) to ensure thorough rinsing. Beyond flushing, do not attempt to remove material from the eye(s). Get medical attention if irritation develops or persists.
<b>Ingestion:</b>	Limestone dust: Rinse mouth and drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.
<b>Most important symptoms/effects,</b>	inhaling dust may cause discomfort in the chest, shortness of breath, and coughing.
<b>Acute and delayed</b>	Prolonged inhalation may cause chronic health effects. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica liberated from this product can cause silicosis, and may cause cancer.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Pre-existing medical conditions that may be aggravated by exposure include disorders of the eye, skin and lung (including asthma and other breathing disorders). If addicted to tobacco, smoking will impair the ability of the lungs to clear themselves of dust.

**5. Firefighting measures**

<b>Suitable extinguishing media</b>	Limestone is not flammable. Use fire extinguishing media appropriate for surrounding materials.
<b>Unsuitable extinguishing media</b>	None known.
<b>Specific hazards arising from the chemical</b>	No unusual fire or explosion hazards noted. Not a combustible dust.
<b>Special protective equipment and precautions for fire fighters</b>	Use protective equipment appropriate for surrounding materials.
<b>Firefighting equipment/instructions</b>	No specific precautions.
<b>Specific methods</b>	Contact with powerful oxidizing agents may cause fire/and or explosions. (See Section 10 of SDS).
<b>General fire hazards</b>	No unusual fire or explosion hazards noted.

**6. Accidental release measures**

<b>Personal Precautions, and emergency procedures</b>	Wear appropriate protective equipment and clothing during clean-up of materials that contain or may liberate limestone dust.
<b>Methods and materials for containment and cleaning up</b>	Spilled material where dust is generated, may overexpose cleanup personnel to respirable crystalline silica- containing dust. Do not dry sweep or use compressed air for clean-up Wetting of spilled material and/or use of respiratory protective equipment may be necessary.
<b>Environmental precautions</b>	Avoid discharge of fine particulate matter into drains or water courses.

**7. Handling and storage**

<b>Precautions for safe handling</b>	Do not handle until all safety precautions have been read and understood. Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
<b>Conditions for safe storage, Including any incompatibilities</b>	Avoid dust formation or accumulation.

**8. Exposure controls/personal protection**

<b>Occupational exposure limits</b>	1-Value equivalent to OSHA formulas (29CFR 1910.1000; 29 CFR 1918) 2-Value also applies to MSHA M/NM (1973 TLVs at 30 CFR 56/57.5001). 3-Osha enforces 0.250 mg/m <sup>3</sup> in construction and shipyards (CPL- 03-00-007). 4- Value also applies to OSHA construction (29 CFR 1926.55 Appendix A) and Shipyards (29 CFR 1915.1000 Table Z). 5-MSHA limit = 10 mg/m <sup>3</sup> .
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**U.S. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Particulates not otherwise classified (CAS SEQ250)	PEL	5mg/m <sup>3</sup>	Respirable Fraction
		15mg/m <sup>3</sup>	Total dust (4)
Calcium Carbonate (CAS 1317-65-3)	TWA	5mg/m <sup>3</sup>	Respirable fraction (4)
		15mg/m <sup>3</sup>	Total dust (5)

**U.S. OSHA TableZ-3 (29 CFR 1910.1000)**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Crystalline Silica (Quartz) (CAS 14808-60-7)	TWA	0.3mg/m <sup>3</sup>	Total dust (1,2)
		0.1mg/m <sup>3</sup>	Total dust (1,2,3)
Tridymite and Cristobalite (other forms of crystalline silica) (CAS mixture)	TWA	0.15mg/m <sup>3</sup>	Total dust (1)
		0.05mg/m <sup>3</sup>	Respirable (1,2,)
Particulates not otherwise classified (CAS SEQ250)	TWA	5mg/mg <sup>3</sup>	Respirable fraction (1)
		15mg/mg <sup>3</sup>	Total dust (1,4,5)

**U.S. ACGIH threshold Limit Values®**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Crystalline Silica (all forms; CAS mixture)	TWA	0.025mg/mg <sup>3</sup>	Respirable dust
Particulates not otherwise classified silica (CAS mixture)	TWA	3 mg/m <sup>3</sup>	Respirable particles (2)
		10 mg/mg <sup>3</sup>	Inhalable particles (2)

**U.S. NIOSH: Pocket guide to Chemical Hazards**

<b>Components</b>	<b>Type</b>	<b>Value</b>	<b>Form</b>
Crystalline Silica (all forms; CAS mixture)	TWA	0.05mg/mg <sup>3</sup>	Respirable dust
Calcium Carbonate (CAS 1317-65-3)	TWA	5mg/mg <sup>3</sup>	Respirable fraction
		10 mg/mg <sup>3</sup>	Total dust

**Biological limit values  
Exposure guidelines**

No biological exposure limits noted for the ingredient(s)  
 OSHA PELs, MSHA PELs, and ACGIH TLVs are 8-hr TWA values. NIOSH RELs are for TWA exposures up to 10-hr/day and 40-hr/wk. Occupational exposure to nuisance dust (total and respirable) crystalline silica should be monitored and controlled. Terms including “Particulates Not Otherwise Classified,” “Particulates Not Otherwise Regulated”, and “Inert or Nuisance Dust” are often used interchangeably; however, the user should review each agencies terminology for differences in meanings.

**Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour indoors) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Individual protective measures, such as personal protective equipment**

**Eye/face protection**

Wear safety glasses with side shields (or goggles)

**Skin protection**

**Hand protection**

Use personal protective equipment as required.

**Other**

Use personal protective equipment as required.

**Respiratory protection**

When handling or performing work with limestone that produces dust or respirable crystalline silica in excess of applicable exposure limits, wear a NIOSH-approved respirator that is properly fitted and is in good

condition. Respirators must be used in accordance with all applicable workplace regulations.

**Thermal Hazards**

Not anticipated. Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash clothing and protective equipment to remove contaminants

**9. Physical and chemical properties.**

**Appearance**

**Physical state**

Solid.

**Form**

Solid, particles.

**Color**

Medium gray, light gray, and tan

**Odor**

Not applicable.

**Odor threshold**

Not applicable.

**Ph**

Neutral

**Melting point/freezing point**

Not applicable.

**Initial boiling point and boiling range**

Not applicable.

**Flash point**

Non-combustible.

**Evaporation rate**

Not applicable.

**Flammability (solid, gas)**

Not applicable.

**Upper/lower flammability or explosive limits**

**Flammability limit – lower (%)**

Not applicable.

**Flammability limit – upper (%)**

Not applicable.

**Vapor pressure**

Not applicable.

**Vapor density**

Not applicable.

**Relative density/specific gravity**

2.74

**Solubility(ies)**

**Solubility water**

Insoluble.

**Partition coefficient (n-octanol/water)**

Not applicable.

**Auto-ignition temperature**

Not applicable.

**Decomposition temperature**

Not applicable.

**Viscosity**

Not applicable.

**Other information**

**Explosive properties**

Not applicable.

**Flammability**

Not applicable.

**10. Stability and reactivity**

**Reactivity**

This product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability**

Material is stable under normal conditions.

**Possibility of hazardous reactions**

No dangerous reaction known under conditions of normal use.

**11. Toxicological information**

**Information on likely routes of exposure**

**Inhalation**

Repeated inhalation of respirable crystalline silica (quartz) may cause Silicosis, a fibrosis (scarring) of the lungs. Silicosis is irreversible and may be fatal. Silicosis increases the risk of contracting pulmonary tuberculosis. Some studies suggest that repeated inhalation of

<p><b>Skin contact</b></p> <p><b>Eye contact</b></p> <p><b>Ingestion</b></p> <p><b>Symptoms related to the physical, Chemical and toxicological Characteristics</b></p> <p><b>Information on toxicological effects</b></p> <p><b>Acute toxicity</b></p> <p><b>Skin corrosion/irritation</b></p> <p><b>Serious eye damage/eye irritation</b></p> <p><b>Respiratory or skin sensitization</b></p> <p><b>Respiratory sensitization</b></p> <p><b>Skin sensitization</b></p> <p><b>Germ cell mutagenicity</b></p> <p><b>Carcinogenicity</b></p> <p><b>IARC Monographs. Overall evaluation of Carcinogenicity</b></p> <p><b>Crystalline Silica (quartz) (CAS 148808-60-7)</b></p> <p><b>Respirable Tridymite and Cristobolite (Other forms of Crystalline) (CAS Mixture)</b></p> <p><b>NTP report on Carcinogens</b></p> <p><b>Crystalline Silica (quartz) (CAS 14808-60-7)</b></p> <p><b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b></p> <p><b>Reproductive toxicity</b></p> <p><b>Specific organ toxicity</b></p> <p><b>-Single exposure</b></p> <p><b>Specific target organ toxicity repeated exposure</b></p> <p><b>Aspiration hazard</b></p> <p><b>Chronic effects</b></p> <p><b>12. Ecological information</b></p> <p><b>Ecotoxicity</b></p> <p><b>Persistence and degradability</b></p> <p><b>Bioaccumulative potential</b></p> <p><b>Mobility in soil</b></p>	<p>respirable crystalline silica may cause other adverse health effects including lung and kidney cancer.</p> <p>Limestone dust. May cause irritation through mechanical abrasion.</p> <p>Limestone dust. May cause irritation through mechanical abrasion.</p> <p>Not likely, due to the form of the product. However, accidental ingestion of the content may cause discomfort</p> <p>Limestone dust: Discomfort in the chest. Shortness of breath. Coughing.</p> <p>Not expected to be acutely toxic.</p> <p>This product is not expected to be a skin hazard.</p> <p>Direct contact with eyes may cause temporary irritation.</p> <p>No respiratory sensitization effects known.</p> <p>Not known to be a dermal irritant or sensitizer.</p> <p>No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.</p> <p>Respirable crystalline silica has been classified by IARC and NTP as a known human carcinogen, and classified by ACGIH as a suspected human carcinogen.</p> <p>1 Carcinogenic to humans.</p> <p>1 Carcinogenic to humans.</p> <p>Known to be human carcinogen.</p> <p>Not listed.</p> <p>Not expected to be a reproductive hazard.</p> <p>Not classified.</p> <p>Respirable crystalline silica: May cause damage to organs (lung) through prolonged or repeated exposure.</p> <p>Due to the physical form of the product it is not an aspiration hazard. Prolonged inhalation of respirable crystalline silica may be harmful. May cause damage to organs (lungs) through prolonged or repeated exposure. There are reports in the literature suggesting that excessive crystalline silica exposure may be associated with autoimmune disorders and other adverse health effects involving the kidney. In particular, the incidence of scleroderma (thickening of the skin caused by swelling and thickening of fibrous tissue) appears to be higher in silicotic individuals. To date, no evidence does not conclusively determine a causal relationship between silica exposure and those adverse health effects.</p> <p>Not expected to be harmful to aquatic organisms. Discharging limestone dust and fines into waters may increase total suspended particulate (TSP) levels that can be harmful to certain aquatic organisms.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>Not applicable.</p>
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**Other adverse effects** No other adverse environmental effects. (e.g. ozone depletion, photochemical ozone creation potential, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal instructions** Do not allow fine particulate matter to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with fine particulate. Dispose of contents in accordance with local/regional/national regulations.

**Hazardous waste code** Not regulated.

**Waste from residues/unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its containers must be disposed of in a safe manner (see: disposal instructions.)

**Contaminated packaging** Since empty containers may retain product residue, follow label warnings even after container is emptied. Empty packaging materials should be recycled or disposed of in accordance with applicable regulations and practices.

### 14. Transport Information

**DOT** Not regulated as dangerous goods.

**IATA** Not regulated as dangerous goods.

**IMDG** Not regulated as dangerous goods.

**Transporting in bulk according to Annex II of Marpol 73/78 and the IBC code** Not applicable.

### 15. Regulatory information

**U.S. Federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

**TSCA Section 12(b) Export notification (40 CFR 707, Subpart D)** Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)** Not listed.

**CERCLA Hazardous substance list (40 CFR 302.4)** Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)** Immediate hazard – No.  
Delayed hazard – Yes.  
Fire hazard – No.  
Pressure hazard – No.  
Reactivity hazard – No.

**SARA 302 extremely hazardous substance** Not listed.

**SARA 311/312 Hazardous** Yes

**SARA 313 (TRI reporting)** Not regulated.

**Other Federal Regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAP) List** Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)** Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**16. Other Information, including date  
of preparation or last revision**

Issue Date 6/23/16  
Revision Date 0

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