1. Identification

Product identifier

Limestone

Other means of identification

Synonyms To be completed by company based on specific products being marketed.

Limestone is used in the manufacture of bricks, mortar, cement, concrete, plasters, paving Recommended use

materials, other construction materials, steel, consumer products, and other goods,

Limestone aggregate may be distributed in bags, totes, and bulk shipments.

None known. Recommended restrictions

Manufacturer/Importer/Supplier/Distributor information

Company Name Mulzer Crushed Stone, Inc. / Material Transport / Shamblin Stone

Address 534 Mozart Street; Tell City, IN 47586

Telephone (812) 547-7921

Website WWW.MULZER.COM

E-mail matthewbunner@mulzer.com

Matthew Bunner, Safety Manager CSP CMSP Contact person

Emergency phone number (812) 395-8040

2. Hazard(s) identification

Physical hazards Not classified. Health Hazards Carcinogenicity

Category 1A Specific Target Organ Toxicity, Category 2

Repeated Exposure

OSHA defined hazards Not classified.

Label elements



Signal word Danger

> Hazard statement May cause cancer. May cause damage to organs (lung) through prolonged or repeated

> > exposure.

Precautionary statement

Obtain special instructions before use. Do not handle until all safety precautions have Prevention

been read and understood. Wear protective gloves/protective clothing/eye

protection/face protection.

If exposed or concerned: Get medical advice/attention. Response

Restrict or control access to stockpile areas. Engulfment hazard: To prevent burial or Storage

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/national/international Disposal

regulations.

Hazard(s) not otherwise None known.

classified (HNOC)

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	> 55	
Crystalline Silica (Quartz)	14808-60-7	<36	

4. First-aid measures

Inhalation

Skin contact

and persists.

Eye contact

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

Limestone dust: Wash off with soap and water. Get medical attention if irritation develops

persists.

Ingestion

Limestone dust: Rinse mouth and drink plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.

Most important symptoms/effects, acute and delayed

Inhaling dust may cause discomfort in the chest, shortness of breath, and coughing.

Limestone dust: Move to fresh air. Call a physician if symptoms develop or persist.

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.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

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. Fire-fighting measures

Suitable extinguishing media

Limestone is not flammable. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media Specific hazards arising from the chemical

None known.

No unusual fire or explosion hazards noted. Not a combustible dust.

Special protective equipment and precautions for firefighters Fire fighting equipment/instructions Use protective equipment appropriate for surrounding materials.

Specific methods

No specific precautions.

Contact with powerful oxidizing agents may cause fire and/or explosions (see section 10 of SDS).

General fire hazards

No unusual fire or explosion hazards noted.

6. Accidental release measures Personal precautions.

and emergency procedures Methods and materials for containment and cleaning up Wear appropriate protective equipment and clothing during clean-up of materials that contain or may liberate limestone dust.

Environmental precautions

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.

Avoid discharge of fine particulate matter into drains or water courses.

7. Handling and storage

Precautions for safe handling

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.

Conditions for safe storage, Including any incompatibilities Avoid dust formation or accumulation.

8. Exposure controls/personal protection

Occupational exposure limits

- 1 Value equivalent to OSHA formulas (29 CFR 1910.1000; 29 CFR 1917; 29 CFR 1918)
- 2 Value also applies to MSHA Metal / Non-Metal (1973 TLVs at 30 CFR 56/57.5001).
- 3 OSHA enforces 0.250 mg/m³ 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).
- $5 MSHA limit = 10 mg/m^3$.

Components	Туре	Value	Form	
Particulates not otherwise classified (CAS SEQ250).	PEL	5 mg/m³ 15 mg/m³	Respirable fraction Total dust (4)	
Calcium Carbonate (CAS 1317-65-3)	TWA	5 mg/m³ 15 mg/m³	Respirable fraction (4) Total dust (5)	
U.S. OSHA Table Z-3 (29 CFR 1910.1000	0)			
Components	Туре	Value	Form	
Crystalline Silica (Quartz) (CAS 14808-60-	7) TWA	0.3 mg/m³ 0.1 mg/m³	Total dust (1,2) Respirable (1,2,3)	
Tridymite and Cristobalite (other forms of silica) (CAS Mixture)	crysta ll ine TWA	0.15 mg/m³ 0.05 mg/m³	Total dust (1) Respirable (1,2)	
Particulates not otherwise classified (CAS SEQ250)	TWA	5 mg/m³ 15 mg/m³	Respirable fraction (1) Total dust (1,4,5)	
US. ACGIH Threshold Limit Values®				
Components	Туре	Value	Form	
Crystalline Silica (all forms; CAS mixture)	TWA	0.025 mg/m ³	Respirable fraction	
Particulates not otherwise classified silica) (CAS Mixture)	TWA	3 mg/m³ 10 mg/m³	Respirable particles (2) Inhalable particles (2)	
US. NIOSH: Pocket Guide to Chemical I	Hazards			
Components	Туре	Value	Form	
Crystalline Silica (all forms; CAS mixture)	TWA	0.05 mg/m ³	Respirable dust	
Calcium Carbonate (CAS 1317-65-3)	TWA	5 mg/m³	Respirable fraction	
		10 mg/m ³	Total dust	
ological limit values	No biological exposure limit	s noted for the ingredient(s).		
posure guidelines	OSHA PELs, MSHA PELs, TWA exposures up to 10-hr and respirable) and respirable including "Particulates Not 0 "Particulates Not Otherwise	and ACGIH TLVs are 8-hr TWA /day and 40-hr/wk. Occupationa ble crystalline silica should be m Otherwise Classified," "Particula Specified," and "Inert or Nuisar the user should review each age	I exposure to nuisance dust (to onitored and controlled. Terms tes Not Otherwise Regulated," ice Dust" are often used	
ropriate 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.			

App

Individual protection 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. Use personal protective equipment as required. Other

When handling or performing work with limestone that produces dust or respirable Respiratory protection

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 work clothing and

protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Solid.

Form Solid, particles.

Color To be completed by company.

Odor Not applicable.
Odor threshold Not applicable.

pH To be completed by company.

Melting point/freezing point

Not applicable.

Initial boiling point and boiling

Not applicable.

range

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 densityTo be completed by company.

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 The 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 respirable crystalline silica may cause other adverse health effects including

lung and kidney cancer.

Skin contact

Limestone dust: May cause irritation through mechanical abrasion.

Eye contact

Limestone dust: May cause irritation through mechanical abrasion.

Ingestion Not likely, due to the form of the product. However, accidental ingestion of the content

may cause discomfort.

Symptoms related to the Limestone dust: Discomfort in the chest. Shortness of breath. Coughing.

physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Skin corrosion/irritation This product is not expected to be a skin hazard. Direct contact with eyes may cause temporary irritation. Serious eye damage/eye irritation

Respiratory or skin sensitization

No respiratory sensitizing effects known. Respiratory sensitization Skin sensitization Not known to be a dermal irritant or sensitizer.

No data available to indicate product or any components present at greater than Germ cell mutagenicity

0.1% are mutagenic or genotoxic.

Respirable crystalline silica has been classified by IARC and NTP as a known human Carcinogenicity

carcinogen, and classified by ACGIH as a suspected human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Crystalline Silica (Quartz) (CAS 14808-60-7) 1 Carcinogenic to humans. Respirable Tridymite and Cristobalite 1 Carcinogenic to humans.

(other forms of Crystalline) (CAS Mixture)

NTP Report on Carcinogens

Crystalline Silica (Quartz) (CAS 14808-60-7) Known To Be Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Not expected to be a reproductive hazard. Reproductive toxicity

Specific target organ toxicity

Not classified.

- single exposure

Specific target organ toxicity -

Respirable crystalline silica: May cause damage to organs (lung) through

repeated exposure

prolonged or repeated exposure.

Aspiration hazard

Due to the physical form of the product it is not an aspiration hazard.

Chronic effects

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, the evidence does not conclusively determine a causal relationship between silica exposure and these adverse health effects.

12. Ecological information

Ecotoxicity 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.

Not applicable. Persistence and degradability Not applicable. Bioaccumulative potential Mobility in soil Not applicable.

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 particulates. Dispose of contents in accordance with

local/regional/national/international regulations.

Hazardous waste code Not regulated.

Waste from residues / Dispose of in accordance with local regulations. Empty containers or liners may retain some unused products

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied 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.

Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

15. Regulatory information

US 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, Subpt. 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)

Hazard categories 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

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Crystalline Silica (Quartz) (CAS 14808-60-7)

Respirable Tridymite and Cristobalite (other forms of crystalline silica) (CAS Mixture)

US. New Jersey Worker and Community Right-to-Know Act

Crystalline Silica (Quartz) (CAS 14808-60-7)

Respirable Tridymite and Cristobalite (other forms of crystalline silica) (CAS Mixture)

US. Pennsylvania Worker and Community Right-to-Know Law

Crystalline Silica (Quartz) (CAS 14808-60-7)

Respirable Tridymite and Cristobalite (other forms of crystalline silica) (CAS Mixture)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

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

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Crystalline Silica (Quartz) (CAS 14808-60-7)

International Inventories

Country(s) or region Inventory name On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

 Issue date
 4-20-15

 Revision date
 4-20-15

 Version #
 1 of SDS

Disclaimer This document is current and accurate to the best of our knowledge. Material in normal use would have

little to zero affects to the human body unless crushed to a size of less than 10 microns to affect the lungs in humans. If further information is needed do not hesitate to contact us a (812)547-7921.

Yes

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