

Limestone

SDS Number: USA-006

Revision Date: 9/21/2023

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1	PRODUCT AND COMPANY IDENTIFICATION
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Product Identifier: Limestone
Synonyms: Aggregate, Agricultural Lime, AgLime, Crushed Stone, Manufactured Sand, Mineral Filler, Limestone - High Calcium
Common Name: Limestone
SDS Number: USA-006
Revision Date: 9/21/2023
CAS Number: 1317-65-3
Chemical Family: Calcium and Magnesium Carbonate
Chemical Formula: CaCO₃ and MgCO₃
Instructions: This Safety Data Sheet applies to natural crushed limestone products originating from the following U.S. Aggregates, Inc. quarries:
 Flat Rock
 Columbus
 Springville
 243 Quarry
 Deer Creek
 MCC (Midwest Calcium Carbonate)

2	HAZARDS IDENTIFICATION
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Classification of the Substance or Mixture
GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):

- Health, Carcinogenicity, 1 A
- Health, Specific target organ toxicity - Repeated exposure, 2
- Health, Skin irritation, 2
- Health, Eye irritation, 2 B
- Health, Specific target organ toxicity - Single exposure, 3
- Health, Acute toxicity, 5 Inhalation

GHS Label Elements, Including Precautionary Statements
GHS Signal Word: DANGER
GHS Hazard Pictograms:


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GHS Hazard Statements:

- H350 - May cause cancer
- H373 - May cause damage to lungs through prolonged or repeated respiratory exposure
- H315 - Causes skin irritation
- H320 - Causes eye irritation
- H335 - May cause respiratory irritation
- H333 - May be harmful if inhaled

GHS Precautionary Statements:

- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P260 - Do not breathe dust, fumes, or mists.
- P264 - Wash skin thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P280 - Wear protective gloves, protective clothing, eye protection, face protection.
- P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308 + P313 - IF exposed or concerned: Get medical advice/ attention.
- P501 - Dispose of contents/container to container in accordance with local/regional/national/international regulations.

Hazards not Otherwise Classified (HNOC) or not Covered by GHS

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 and 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 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 OF INGREDIENTS
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CAS#	Chemical Ingredients: % Chemical Name:
1317-65-3	50-98% Calcium Carbonate (CaCO ₃)
546-93-0	0-20% Magnesium Carbonate (MgCO ₃)
14808-60-7	0-3% Silica, Crystalline

Component ranges all vary naturally.

4	FIRST AID MEASURES
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Inhalation: Remove to fresh air. Control dusts in workplace. Call a physician if irritation develops or persists..

Skin Contact: Rinse skin with soap and water after handling . Call a physician if irritation develops and persists.

Eye Contact: Immediately flush eyes with water for at least 15 minutes. Hold eyelids apart. Remove contacts lenses, if present, and continue rinsing. Beyond flushing, do not attempt to remove material from the eye. Call a physician if irritation develops or persists.

Ingestion: If person is conscious, give a large quantity of water and induce vomiting. Never attempt to make an unconscious person drink. Get medical attention.

Most important symptoms/effects (acute and delayed):
 This product contains crystalline silica. There are generally no signs or symptoms of exposure to respirable crystalline silica. Inhaling dust may cause discomfort in the chest, shortness of breath, wheezing and coughing. Prolonged or repeated inhalation of respirable crystalline silica liberated from this product can cause silicosis, and may cause cancer. Often, chronic silicosis has no symptoms.

Indication of Immediate Medical Attention and Special Treatment Needed:
 Provide general supporting measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General Information:
 Pre-existing medical conditions that may be aggravated by exposure include disorders of the eye, skin and lung (including asthma and breathing disorders). If addicted to tobacco, smoking will impair the ability of the lungs to clear themselves of dust.

5	FIRE FIGHTING MEASURES
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Flammability: Non-flammable inert material.

Suitable Extinguishing Media: This product is non-flammable, inert material. Use fire extinguishing media appropriate for surrounding materials

6	ACCIDENTAL RELEASE MEASURES
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Spilled material should not cause any environmental harm except that respirable dust may be generated. Consider the use of wetting or other air emission controls to control the generation and exposure to dust. Wear appropriate protective equipment and clothing during clean-up of materials that contain or may liberate limestone dust.

Environmental Precautions: Avoid discharge of fine particulate matter into drains, sewers or water courses.

7	HANDLING AND STORAGE
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Handling Precautions: Respirable dust may be generated during processing, handling, and storage. Engineering controls such as wetting, dust suppression, ventilation, process enclosure, enclosed employee work stations, etc. should be used to keep dust emissions below the appropriate PEL. Respirable dust levels should be monitored regularly.

Storage Requirements: Keep product dry. Avoid dust formation or accumulation.

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8	EXPOSURE CONTROLS/PERSONAL PROTECTION
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Engineering Controls: Use Local exhaust or general ventilation adequate to maintain exposures below appropriate exposure limits. Monitor respirable dust and crystalline silica levels regularly and implement dust control measures as needed.

Personal Protective Equipment:

Eye/Face Protection:
Safety glasses with sideshields should be worn as minimum protection. Dust goggles should be worn when excessively (visible) dusty conditions are present or anticipated.

Skin Protection:
Cloth gloves are acceptable.

Respiratory Protection:
NIOSH/MSHA-approved dust respirators for conditions where dust levels exceed or are likely to exceed appropriate exposure limits. Respirator use must comply with applicable MSHA or OSHA standards, which include provisions for a user training program, respirator repair and cleaning, respirator use medical clearance, fit testing, and other requirements.

Work/Hygienic Practices:
Wash clothes after each use. Wash dust-exposed skin with soap and water.

CALCIUM CARBONATE:

OSHA PEL: 15 mg/m³ (total dust) TWA, 5 mg/m³ (respirable fraction) TWA
 MSHA PEL: 15 mg/m³ (total dust) TWA, 5 mg/m³ (respirable fraction) TWA
 NIOSH REL: 10 mg/m³ (total dust) TWA, 5 mg/m³ (respirable fraction) TWA

RESPIRABLE CRYSTALLINE SILICA (QUARTZ):

This limestone may contain an amount of respirable crystalline silica.

MSHA and OSHA PEL: 0.05 mg/m³ TWA
 NIOSH REL: 0.05 mg/m³ TWA
 ACGIH TLV: 0.025 mg/m³ TWA

9	PHYSICAL AND CHEMICAL PROPERTIES
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Appearance:	Angular gray, white, or tan particles in size from powder to boulders.		
Physical State:	Solid	Odor:	None
Odor Threshold:	N/A	Solubility:	Insoluble in water
Spec Grav./Density:	2.5 - 2.8	Freezing/Melting Pt.:	N/A
Viscosity:	N/A	Flash Point:	N/A
Boiling Point:	N/A	Vapor Density:	N/A
Flammability:	N/A	Bulk Density:	N/A
Vapor Pressure:	N/A	Auto-Ignition Temp:	N/A
pH:	8 - 10	UFL/LFL:	N/A
Evap. Rate:	N/A		
Molecular weight:	100.09		
Decomp Temp:	N/A		

10	STABILITY AND REACTIVITY
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Reactivity: This product is stable and non-reactive under normal conditions of use, transport and storage.

Chemical Stability: This material is stable under normal temperatures and pressures.

Materials to Avoid: Strong acids will dissolve limestone by neutralization. Contact with powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trifluoride, and oxygen difluoride may cause fire and/or explosion of the released gas.

Hazardous Decomposition: Silica dissolves in hydrofluoric acid producing a corrosive gas - silicon tetrafluoride.

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TOXICOLOGICAL INFORMATION

In October 1996, an IARC working group reassessing crystalline silica, a component of this product, designated crystalline silica as a carcinogen. (Group 1).

Chronic exposure to respirable quartz containing limestone dust in excess of appropriate PELs has caused silicosis, a progressive pneumoconiosis. Not all individuals with silicosis will exhibit symptoms or signs of the disease. However, silicosis is progressive, and symptoms can appear at any time, even years after exposures have ceased. Symptoms of silicosis may include (but not limited to): shortness of breath, reduction in lung volume, right heart enlargement and/or failure. Persons with silicosis have an increased risk of pulmonary tuberculosis infection. Crystalline silica, a component of this product, has been designated by IARC as Group 1, a substance known to cause cancer in humans.

Limestone is not listed as a carcinogen on the NTP, IARC, or OSHA lists of carcinogens.

Acute toxicity: Not expected to be acutely toxic

Irritation/Corrosion: May cause skin and eye irritation through mechanical abrasion. Repeated inhalation of respirable crystalline silica (quartz) may cause silicosis.

Sensitization: Not known to have respiratory sensitizing effects or to be a known dermal irritant.

Mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Aspiration Hazard: Not expected to be an aspiration hazard

Reproductive Toxicity: Not expected to be a reproductive hazard

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ECOLOGICAL INFORMATION

Toxicity - May be harmful to aquatic organisms or wildlife due to high pH in water. Discharging sand and gravel dust and fines into water may increase total suspended solids levels that can be harmful to certain aquatic organisms.

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DISPOSAL CONSIDERATIONS

Disposal Methods:

Do not allow fine particulate matter to drain into sewer/water supplies. Do not contaminate ponds, waterways, or ditches with fine particulates. Unless contaminated by other materials, no regulations are applicable to disposing or otherwise moving this product.

Hazardous Waste Code:

This material, if discarded as produced, is not a RCRA "listed" hazardous waste. Use which results in chemical or physical change or contamination may subject it to regulation as a hazardous waste. It is the responsibility of the generator to fully characterize for toxicity and other RCRA parameters prior to disposal (40 CFR 261). Along with properly characterizing all waste materials, consult state and local regulations regarding proper disposal of this material

Waste From Residue/Unused Products:

Dispose of in accordance with local regulations. Empty containers or liners may contain some product residues. This material and its container must be disposed of in a safe manner.

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.

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TRANSPORT INFORMATION

This product is not a hazardous material as defined by the U.S. Department of Transportation and International Air Transport Association (IATA).

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

15	REGULATORY INFORMATION
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[%] RQ (CAS#) Substance - Reg Codes



WARNING

This product can expose you to chemicals including Silica, Crystalline, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Regulatory Code Legend

TSCA/DSL: Listed under CAS 1317-65-3 Exempt from DSL and naturally occurring.

CONEG: Materials used to manufacture packaging are CONEG compliant.

CWA: Not considered to be a water pollutant.

WASET: Waste is not subject to RCRA and acceptable at landfills as a "solid waste". Product can often be beneficially reused or recycled or other purposes.

SPILLS: Sweep up spillage in dry form where possible.

OSHA: Labeling required under OSHA Hazard Communication standard [29 CFR 1910.1200 (f)] and other applicable state and local laws and regulations.

PROP 6: WARNING: This product MAY contain chemical(s) known to the state of California to cause cancer.

NAFTA: Product qualifies under HS Tariff No 2521.00 as 100% US Origin, Preference Criteria A.

EU Directive: Not classified as hazardous for supply (1999/45/EC)

16	OTHER INFORMATION
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Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

U.S. Aggregates, Inc.

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