



SAFETY DATA SHEET

Effective Date: 6/1/2015
Replaces: February 2004

Limestone

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION	
Product Name: Limestone	CAS #: Mixture
Chemical Name: Calcium Carbonate, Lime Rock, Limestone CaCO ₃	Chemical Family: Carbonate
Synonyms/Common Names: Aggregate, Aglime, Barn Lime, Coverstone, Flexible Base, Fluxing Agent, Manufactured Sand, Mineral Filler, Screenings, Calcium Carbonate	
Manufacturer/Contact Info: Teichert Aggregates PO Box 15002 Sacramento, CA 95851	General Phone Number: (916) 484-3011 (8-5, PST, M-F) Emergency Phone Number: (800) 287-7383

SECTION 2. HAZARDS IDENTIFICATION
EMERGENCY OVERVIEW
Harmful by inhalation, skin and eyes.
OSHA REGULATORY STATUS
This product is considered hazardous under Hazard Communication 29 CFR 1910.1200 (OSHA) and 8 CCR §5194 (Cal/OSHA).
POTENTIAL HEALTH EFFECTS
Routes of Exposure: Inhalation. Skin contact. Eye contact.
Eye Contact: Do not get this material in contact with eyes. Dust may irritate the eyes. May cause discomfort or pain, local redness and swelling of the conjunctiva.
Skin: Do not get this material in contact with skin. Dust may irritate skin through mechanical abrasion. May lead to dermatitis.
Inhalation: Inhalation of high concentrations of dust may lead to respiratory irritation, coughing and sneezing. Prolonged inhalation of high concentrations of respirable silica quartz dust can lead to lung disease including chronic obstructive pulmonary disease and silicosis.
Ingestion: Expected to be practically non-toxic. Ingestion of large amounts may cause gastrointestinal irritation including nausea, vomiting diarrhea and blockage.
TARGET ORGANS
Eyes. Skin. Lungs.
CHRONIC EFFECTS
Conjunctiva. Inhalation of high concentrations of airborne dust may produce respiratory irritation. Prolonged and routine inhalation of respirable silica quartz dust may lead to the lung disease including chronic obstructive pulmonary disease and silicosis.
SIGNS AND SYMPTOMS
Symptoms of silicosis may include (but are not limited to) shortness of breath, difficulty breathing with or without exertion; coughing; diminished work capacity; diminished chest expansion; reduction of lung volume; right heart enlargement and/or failure.
OTHER HEALTH HAZARDS
Any pre-existing upper respiratory ailment can be aggravated by exposure to nuisance dust
GHS label elements
Hazard pictograms



Signal word:

Warning

Hazard Statements:

May cause irritation of eyes and skin

May cause respiratory irritation

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS				
Hazardous Components	CAS No.	% by Weight	PEL	TLV
Limestone	1317-65-3	100	10 mg/m3	10mg/m3
May Contain minor amounts of Crystalline Silica; Composition Varies naturally	14808-60-7	<1	0.3 mg/m3 0.1 mg/m3	0.05 mg/m3
Meta Sedimentary Rock	N/E	≤49	N/E	N/E
Meta Volcanic Rock	N/E		N/E	N/E

SECTION 4. FIRST AID MEASURES
<p>Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention.</p>
<p>Skin: Wash contact areas with soap and water. Get medical attention if irritation develops or persists.</p>
<p>Inhalation: Remove to fresh air. Get medical attention if any discomfort continues.</p>
<p>Ingestion: If person is conscious, do not induce vomiting. Give large quantity of water and get medical attention. Never attempt to make an unconscious person drink.</p>
<p>Notes to Physician: Keep victim under observation. Symptoms may be delayed. Inhalation of high concentrations of airborne dust may produce irritation and coughing. Pre-existing respiratory conditions, such as bronchitis may be aggravated by inhalation exposure. Prolonged and routine inhalation of respirable silica quartz dust can lead to delayed lung disease known as chronic obstructive pulmonary disease and silicosis.</p>
<p>General Advice: If exposed or concerned: get medical attention/advice. If breathing is difficult, give oxygen. Keep victim under observation. Ensure that medical personnel are aware of the material(s) involved. As with any chemical, skin contact with this product, and the breathing of product dust should be minimized. We strongly recommend that the precautions stated in this SDS be followed when handling the product.</p>

SECTION 5. FIRE FIGHTING MEASURES			
<p>Flammable Properties: Not a fire hazard. This product is not flammable or combustible.</p>	<p>Flashpoint (method used): Product: NE</p>	<p>Flammable Limits in Air (% volume in air):</p>	
		<p>Not available</p>	<p>LEL: N/E</p>
<p>Extinguishing Media:</p>			
<p>Protection of Firefighters: Use water until well after fire is out.</p>			
<p>Specific Methods: Containers close to fire should be removed or cooled with water.</p>			

Unusual Fire Explosion Hazards:

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

SECTION 6. ACCIDENTAL RELEASE MEASURES**Personal Precautions:**

Avoid inhalation of dust.

Environmental Precautions:

Do not contaminate water sources or sewer.

Methods for Containment:

Prevent entry into waterways, sewers or confined areas.

Methods for Clean Up:

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. Prevent spilled materials from entering streams, drains, or sewers.

Stability = Stable

Condition to Avoid: Avoid Contact with incompatible materials (see below)

INCOMPATIBILITY (materials to avoid):

Minerals acids, Ammonium salts, Fluoride, Mercury, Aluminum Sulfate, Magnesium May cause fire and/or explosion. Silica Dissolves readily in hydrofluoric acid producing a corrosive gas-silicon tetrafluoride.

HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS:

None under normal storage conditions. Limestone ignites on contact with fluorine and incompatible with acids, alum, ammonium salts and magnesium.

HAZARDOUS POLYMERIZATION: Will not occur

Condition to Avoid = NONE

SECTION 7. HANDLING AND STORAGE**Handling:**

Do not get this material in contact with eyes. Do not get this material in contact with skin. Use only with adequate ventilation. Use personal protective equipment as needed. Avoid prolonged exposure. Wash thoroughly after handling. Avoid release to the environment. This product is not intended or designed for use as an abrasive blasting medium or for foundry applications and should not be used for these purposes. Respirable crystalline silica-containing dust may be generated when product is subject to mechanical forces such as demolition work, surface treatment (sanding, grooving, chiseling, etc.) and recycling of pavement.

Storage:

Keep this material away from food, drink and animal feed. Keep out of reach of children.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	OSHA/MSHA Permissible Exposure Limit (PEL)	Cal/OSHA Permissible Exposure Limit (PEL)	ACGIH Threshold Limit Valve (TLV)
Limestone (Calcium Carbonate)	15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction)		10 mg/m ³ (total dust as calcium carbonate)
Crystalline Silica (Quartz, Cristobalite, Tridymite) (respirable dust containing silica)	10 mg/m ³ / (%SiO ₂ +2) (respirable particulate containing silica) OSHA PEL for cristobalite and tridymite is ½ of the calculated value for quartz.	0.1 mg/m ³ (respirable quartz) 0.05 mg/m ³ (respirable cristobalite and tridymite)	0.025 mg/m ³ (respirable quartz and cristobalite)
Total dust containing silica	OSHA: 30 mg/m ³ / (% silica + 2) MSHA: 30 mg/m ³ / (% silica + 3)	0.3 mg/m ³ (total dust, quartz)	NE

Engineering Controls:

Activities that generate dust require the use of general ventilation, local exhaust and/or wet suppression methods to maintain exposures below allowable exposure limits.

PERSONAL PROTECTIVE EQUIPMENT:**Eye / Face Protection:**

Wear safety glasses with side shields. Use personal protective equipment as required.
Skin Protection: Wear suitable protective clothing and gloves.
Respiratory Protection: Use personal protective equipment as required. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory protection. If airborne concentrations exceed applicable exposure limits (PEL), wear NIOSH-approved respiratory protective equipment to maintain exposures below the PEL.
General Hygiene Considerations: Do not get this material in contact with eyes. Do not get this material in contact with skin. Keep away from food, drink and animal feeding stuffs. Observe good industrial hygiene practices.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES		
Appearance & Odor: Various colored rock; no odor.		
pH: Not available	Melting Point: Not available	Boiling Point: Not available
Evaporation Rate: Not available	Vapor Pressure: Not available	Vapor Density: Not available
Specific Gravity: 2.4 – 2.85	Solubility (water): 0	

SECTION 10. CHEMICAL STABILITY & REACTIVITY INFORMATION	
Chemical Stability: Stable under normal temperatures and pressures.	
Conditions to Avoid: Contact with incompatible materials should be avoided (see below). See Sections 5 and 7 for additional information.	
Incompatible Materials: Limestone ignites on contact with fluorine and is incompatible with acids, aluminum, ammonium salts and magnesium. Silica reacts violently with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride yielding possible fire and/or explosions. Silica dissolves readily in hydrofluoric acid producing a corrosive gas - silicon tetrafluoride.	
Hazardous Decomposition Products: None under normal storage conditions. Limestone ignites on contact with fluorine and is incompatible with acids, alum, ammonium salts and magnesium.	
Hazardous Polymerization: Not known to occur.	

SECTION 11. TOXICOLOGY INFORMATION	
Sensitization: Not available	
Local Effects: Airborne particles can cause eye and/or skin irritation. Inhalation of high levels of airborne dust may produce coughing and respiratory irritation.	
Chronic Effects: Chronic inhalation of high concentrations of iron oxide fumes or dust may lead to benign pneumoconiosis (siderosis).	
Carcinogenicity: Not expected to be hazardous by OSHA criteria.	
IARC Monographs on Occupational Exposures to Chemical Agents: Overall evaluation	
Quartz [Silica Crystalline] (14808-60-7)	1 Human carcinogen
US ACGIH Threshold Limit Values: A2 carcinogen	
Quartz [Silica Crystalline] (14808-60-7)	Group A2 Suspected human carcinogen
US NTP Report on Carcinogens: Known carcinogen	
Quartz [Silica Crystalline] (14808-60-7)	Known carcinogen

SECTION 12. ECOLOGICAL INFORMATION**Environmental Effects:**

Not available

Other:

Not available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal Instructions:**

Do not allow this material to drain into sewers/water supplies. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

Waste from Residues / Unused Products:

Dispose of waste and residues in accordance with local, state and federal requirements.

SECTION 14. TRANSPORT INFORMATION [NOTE: NOT INTENDED TO BE ALL-INCLUSIVE]**DOT Proper Shipping Name:**

Not regulated

DOT Hazard Classification:

Not applicable

US/NA Number:

Not regulated

DOT Packing Group:

Not applicable

Labeling Requirements:

Label as required by the OSHA Hazard Communication standard [29CFR 1910.1200(f)], MSHA Hazard Communication standard (30 CFR Part 47) and applicable state and local regulations.

SECTION 15. REGULATORY INFORMATION [NOTE: NOT INTENDED TO BE ALL-INCLUSIVE]**US Federal Regulations:**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200 (OSHA) and 8 CCR § 5194 (Cal/OSHA).

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):**Superfund Amendments and Reauthorization Act of 1986 (SARA), Title III:****Hazardous Categories:**

Immediate Hazard – Yes
 Delayed Hazard – Yes
 Fire Hazard – No
 Pressure Hazard – No
 Reactivity Hazard – No


Section 302 Extremely Hazardous Substance:

No

Section 311 Hazardous Chemical

Yes

California Proposition 65:

 **WARNING:** This product can expose you to chemicals including crystalline silica, which are known to the State of California to cause cancer. For more information, go to www.P65Warnings.ca.gov.

State Regulatory Lists:

The following materials/components are specifically listed by individual states. For details on regulatory requirements, you should contact the appropriate agency in your state:

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

Quartz [Silica crystalline] (14808-60-7) Listed

US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

Quartz [Silica crystalline] (14808-60-7) Listed: October 1, 1988 Carcinogenic

SECTION 16. OTHER INFORMATION**Disclaimer of Liability:**

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