

Effective Date: 05/01/2012

Replaces: 05/31/2009

CALICA Limestone

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

| | |
|--|---|
| Product Name: | Formula: |
| CALICA Limestone | Not applicable |
| Synonyms/Common Names: | |
| Limestone, Aggregate, Aglime, Barn Lime, Coverstone, Crushed Stone, FGD Stone, Flexible Base, Fluxing Agent, Manufactured Sand, Mineral Filler, Screenings | |
| Manufacturer/Contact Info: | General Phone Number: |
| Vulcan Materials Company and its subsidiaries and affiliates 1200 Urban Center Drive Birmingham, AL 35242 | 1.866.401.5424 |
| | Emergency Phone Number: |
| | 1.866.401.5424 (3E Company, 24 hours/day, 7 days/week) |

SECTION 2. COMPOSITION INFORMATION ON INGREDIENTS

| Hazardous Components | CAS No. | % by Weight |
|--|-------------------------|--------------|
| Limestone* - predominantly calcium carbonate *Essentially crystalline silica free | 1317-65-3 14808-60-7 | 100 < 0.1 |

SECTION 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION

Dust may irritate the eyes, skin and respiratory tract. Avoid breathing excessive dust.

POTENTIAL HEALTH EFFECTS

Primary Routes of Exposure:

Eyes, skin, inhalation.

Eye Contact:

Dust particles can scratch the eye causing tearing, redness, a stinging or burning feeling, or swelling of the eyes with blurred vision.

Skin Contact:

Dust particles can scratch and irritate the skin with redness, an itching or burning feeling, swelling of the skin, and/or rash.

Skin Absorption:

Not expected to be a significant exposure route following short-term exposure.

Inhalation:

Dusts may irritate the nose, throat and respiratory tract by mechanical abrasion. Coughing sneezing and shortness of breath may occur.

Ingestion:

Expected to be practically non-toxic. Ingestion of large amounts may cause gastrointestinal irritation including nausea, vomiting diarrhea and blockage.

Effects Following Prolonged or Repeated Exposure:

Prolonged or repeated breathing of dust may cause chronic bronchitis.

Carcinogenicity:

Not listed.

Signs and Symptoms of Exposure:

Chronic bronchitis is characterized by greater than normal amounts of mucous in the airways, along with coughing and shortness of breath.

Medical Conditions Aggravated by Exposure:

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.

SECTION 4. FIRST AID MEASURES

Eyes:

Immediately flush eye(s) with plenty of clean water for at least 15 minutes, while holding the eyelid(s) open. Occasionally lift the eyelid(s) to ensure thorough rinsing. Beyond flushing, do not attempt to remove material from the eye(s). Contact a physician if irritation persists or later develops.

Skin:

Wash affected areas thoroughly with mild soap and fresh water. Contact a physician if irritation persists or later develops.

Inhalation:

Remove to fresh air. Dust in throat and nasal passages should clear spontaneously. Contact a physician if irritation persists or if breathing is difficult.

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.

Notes to Physician:

For emergencies, contact 3E Company at 1.866.401.5424 (24 hours/day, 7 days/week).

SECTION 5. FIREFIGHTING MEASURES

Flash Point (Method Used):

Not applicable

Flammable Limits:

LEL: Not applicable

UEL: Not applicable

Autoignition Temperature:

Not applicable

Extinguishing Media:

The presence of this material in a fire does not hinder the use of any standard extinguishing medium. Use extinguishing medium for surrounding fire.

Special Firefighting Procedures:

None

Unusual Fire and Explosion Hazards:

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Precautions if Material is Spilled or Released:

Persons involved in cleanup processes should first observe precautions (as appropriate) identified in Section 8 of this MSDS. 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. Prevent spilled materials from entering streams, drains, or sewers.

For emergencies, contact 3E Company at 1.866.401.5424 (24 hours/day, 7 days/week).

Waste Disposal Methods:

Dispose of waste materials in accordance with applicable federal, state and local laws and regulations.

Environmental Precautions:

Not applicable

SECTION 7. HANDLING AND STORAGE

Storage:

Do not store near food and beverages or smoking materials.

Handling:

Dust may be generated during processing, handling, and storage. Use personal protection and controls identified in Section 8 of this MSDS as appropriate.

MANUFACTURED SAND MADE FROM THIS PRODUCT MUST NOT BE USED AS AN ABRASIVE BLASTING AGENT.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Legend:

NE = Not Established; PEL = Permissible Exposure Limit; TLV = Threshold Limit Value; REL = Recommended Exposure Limit; OSHA = Occupational Safety and Health Administration; MSHA = Mine Safety and Health Administration; NIOSH = National Institute for Occupational Safety and Health; ACGIH = American Conference of Governmental Industrial Hygienists

| Component | OSHA/MSHA PEL | ACGIH TLV | NIOSH REL |
|---------------------------------------|--|--|--|
| Limestone (Calcium Carbonate) | 15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction) | 10 mg/m ³ (inhalable fraction) | 15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction) |
| Particulates not otherwise classified | 15 mg/m ³ (total dust) 5 mg/m ³ (respirable fraction) | 10 mg/m ³ (inhalable fraction) 3 mg/m ³ (respirable fraction) | NE |

Eye Protection:

Safety glasses with side shields should be worn as minimum protection. Dust goggles should be worn when excessively (visible) dusty conditions are present or are anticipated.

Skin Protection (Protective Gloves/Clothing):

Use gloves to provide hand protection from abrasion. In dusty conditions, use long sleeve shirts. Wash work clothes after each use.

Respiratory Protection:

All respirators must be NIOSH-approved for the exposure levels present. (See NIOSH Respirator Selection Guide). The need for respiratory protection should be evaluated by a qualified safety and health professional. Activities that generate dust require the use of an appropriate dust respirator where dust levels exceed or are likely to exceed allowable exposure limits. For respirable silica levels that exceed or are likely to exceed an 8 hr Time Weighted Average (TWA) of 0.5 mg/m³, a high efficiency particulate filter respirator must be worn at a minimum; however, if respirable silica levels exceed or are likely to exceed an 8 hr TWA of 5.0 mg/m³ a positive pressure, full face respirator or equivalent is required. Respirator use must comply with applicable MSHA (42 CFR 84) or OSHA (29 CFR 1910.134) standards, which include provisions for a user training program, respirator inspection, repair and cleaning, respirator fit testing, medical surveillance and other requirements.

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.

Other:

Dust levels should be monitored regularly to determine worker exposure levels. Exposure levels in excess of allowable exposure limits should be reduced by all feasible engineering controls, including (but not limited to) wet suppression, ventilation, process enclosure, and enclosed employee workstations.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|--|--|---|
| Boiling Point: Not applicable | pH: Not applicable | Specific Gravity (H ₂ O = 1): 2.5 |
| Evaporation Rate (Butyl Acetate = 1): 0 | Melting Point: Not applicable | Vapor Pressure (mm Hg.): Not applicable |
| Solubility in Water: Negligible | Vapor Density (Air = 1): Not applicable | % Volatile: 0% |

Appearance and Odor:

Angular white and tan particles ranging in size from powder to boulders. No odor.

SECTION 10. STABILITY AND REACTIVITY

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.

Incompatibility (Materials to Avoid):

Limestone ignites on contact with fluorine and is incompatible with acids, aluminum, ammonium salts and magnesium.

Hazardous Decomposition or Byproducts:

None.

Hazardous Polymerization:

Not known to occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Effects:

No specific data on product. Material similar to limestone (calcium carbonate CAS# 471-34-1) has oral LD50 (rats) = 6450 mg/kg.

Effects Following Prolonged or Repeated Exposure:

Prolonged or repeated breathing of dust may cause chronic bronchitis. Symptoms include greater than normal amounts of mucus in the airways, along with coughing and shortness of breath.

Carcinogenicity:

Limestone is not listed as a carcinogen by IARC, NTP or OSHA.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Ecotoxicological Data:

No specific data on this product. Not expected to be toxic to aquatic organisms.

Environmental Fate Data:

No specific data on this product.

Other:

No specific data on this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Pickup and reuse clean materials. Dispose of waste materials in accordance with applicable federal, state and local laws and regulations. It is the responsibility of the user to determine, at time of disposal, whether product meets criteria for hazardous waste. Product uses, transformations, mixture and processes, may render the resulting material hazardous.

SECTION 14. TRANSPORT INFORMATION [Note: Not intended to be all-inclusive.]

DOT Proper Shipping Name:

Not regulated.

DOT Hazard Classification:

Not applicable.

UN/NA Number:

Not regulated.

DOT Packing Group:

Not applicable.

Labeling Requirements:

Not applicable. Label as required by the OSHA Hazard Communication standard [29 CFR 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.]

Toxic Substances Control Act (TSCA):

The components in this product are listed on the TSCA Inventory or are exempt.

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

Releases of this material to air, land, or water are not reportable to the National Response Center under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) or to state and local emergency planning committees under the Superfund Amendments and Reauthorization Act.

Superfund Amendments and Reauthorization Act of 1986 (SARA), Title III:

Section 302 extremely hazardous substances:

None

Section 311/312 hazard categories:

Delayed Health

Section 313 reportable ingredients at or above de minimus concentrations:

None

California Proposition 65:

This product contains a chemical (crystalline silica) known to the State of California to cause cancer.

State Regulatory Lists:

Each state may promulgate standards more stringent than the federal government. This section cannot encompass an inclusive list of all state regulations. Therefore, the user should review the components listed in Section 2 and consult state or local authorities for specific regulations that apply.

SECTION 16. OTHER INFORMATION

Disclaimer

NO WARRANTY IS MADE, EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE.

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Vulcan Materials Company and its subsidiaries and affiliates
1200 Urban Center Drive
Birmingham, AL 35242

MSDS 3239-057



Dear Customer/Contractor:

Please find attached a material safety data sheet (MSDS) for the product that you purchased from Vulcan Materials Company or one of its subsidiaries or affiliates ("Vulcan"). This is a revised MSDS and replaces any previous versions of the MSDS for this product. This MSDS is provided to you as required by the Occupational Safety and Health Administration's (OSHA) Hazard Communication Standard (29 CFR 1910.1200), the Mine Safety and Health Administration's (MSHA) Hazard Communication Standard (30 CFR Part 47), and/or any applicable state Right-to-Know laws.

It is the responsibility of your company to communicate this information to your employees, customers, and contractors who may use or come in contact with this product. Further, if you distribute this product, Vulcan requests, and applicable laws may require, that you forward this MSDS to your customers.

Please direct this information to the person responsible for safety and health compliance at your company. If you have questions about the MSDS, please contact Vulcan at 1200 Urban Center Drive, Birmingham, AL 35242 or 1-866-401-5424.

If you need additional copies of this or any other Vulcan MSDS or a Spanish language version, you can obtain them at www.vulcanmaterials.com or by calling 1-866-401-5424.

La MSDS puede obtenerse en www.vulcanmaterials.com o llamando al 1-866-401-5424.

Sincerely,

A handwritten signature in black ink, appearing to read "Chad E. McDougal".

Chad E. McDougal, CIH, CSP

Manager, Occupational Health