

Material Safety Data Sheet

Limestone Powder

1. IDENTIFICATION OF THE PRODUCT		
Product Name: , Limestone.		
Trade name:		
Formula: CaCO ₃ .		
Molecular Weight: N.A.		
MSDS code: S206		
Other/Generic Names: Aggregate, Aglime, Barn Lime, Coverstone, Flexible Base, Fluxing Agent, Manufactured Sand, Mineral Filler, Screenings		
Application: Drilling Fluid Additive.		
2. COMPOSITION/INFORMATION ON INGEDIANTS		
Ingredients	CAS Registry No.	% (Approx)
Limestone	1317-65-3	>95
3. HAZARDS IDENTIFICATION		
Skin Contact: No effect observed.		
Eye Contact: Slight irritation may occur. Avoid eye contact.		
Ingestion: N.A.		
Inhalation: May cause slight irritation of mucous membranes if spray mist is inhaled.		
4. FIRST AID MEASURES		
Contact with skin: Wash with soap and water. Contact a physician if irritation persists or later develops.		
Contact with eyes: Immediately flush eye(s) with plenty of clean water for at least 15 minutes, while holding the eyelids) open. Occasionally lift the eyelids) 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.		
Ingestion: If person is conscious, give large quantity of water and induce vomiting; however, never attempt to make an unconscious person drink or vomit. Get immediate medical attention.		
Inhalation: Move to fresh air. Dust in throat and nasal passages should clear spontaneously. Contact a physician if irritation persists or later develops.		
5. FIRE-FIGHTING MEASURES		
Flammable Limits in Air: Not Flammable		
Extinguishing Agents: Not Required		
6. ACCIDENTAL RELEASE MEASURES		
Steps to be taken in case material is released or spilled: Absorb onto vermiculite, clay, or “kitty litter” and sweep up.		
7. HANDLING AND STORAGE		
Respirable crystalline silica-containing dust may be generated during processing, handling, and storage. Do not store near food and beverages or smoking material.		

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection: For respirable quartz levels that exceed or are likely to exceed an 8-hr TWA of 0.1mg/m³, a NIOSH approved dust respirator is recommended. For respirable quartz levels that exceed or are likely to exceed an 8-hr TWA of 0.5mg/m³, a NIOSH approved HEPA filter respirator is recommended. If respirable quartz levels exceed or are likely to exceed an 8-hr TWA of 5mg/m³, a NIOSH approved positive pressure, full face respirator or equivalent is recommended. Respirator use must comply with applicable MSHA or OSHA standards, which include provisions for a user training program, respirator repair and cleaning, respirator fit testing, and other requirements.

Skin Protection: Wash dust-exposed skin with soap and water before eating, drinking, smoking, and using toilet facilities. Wash work clothes after each use.

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.

Exposure limit(s): Limestone (Calcium Carbonate): ACHIH TLV® = 10mg/m³; OSHA PEL = 15mg/m³ (total dust); OSHA PEL = 5mg/m³ (respirable fraction), MSHA PEL = 10mg/m³ (total dust).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Angular gray, white and tan particles ranging in size from powder to boulders.

Odor: Odorless

PH: -

Melting point: N.A

Boiling point: N.A

Flash point: Not Flammable

Solubility in water: insoluble

Specific Gravity: 2.6 – 2.75

Vapor Density in Air (Air = 1): N/A

Vapor Pressure (mmHg @ 20oC): N/A

% Volatile, By Volume (@ 100oF): 0%

Evaporation Rate (at 1 Atm.): 0

10. STABILITY AND REACTIVITY

Conditions to avoid: Avoid contact with incompatible materials (see below).

Substance to avoid: Contact with powerful oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride may cause fire and/or explosions. Silica dissolves readily in hydrofluoric acid producing a corrosive gas – silicon tetrafluoride.

Hazardous decomposition products: Limestone ignites on contact with fluorine and is incompatible with acids, alum, 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.

Stability: Stable.

11. TOXICOLOGICAL INFORMATION

Skin contact: Direct contact may cause irritation by mechanical abrasion.

Eye contact: Direct contact with dust may cause irritation by mechanical abrasion.

Ingestion: Expected to be practically non-toxic. Ingestion of large amounts may cause gastrointestinal irritation and blockage.

Inhalation: Dusts may irritate the nose, throat, and respiratory tract by mechanical abrasion. Coughing, sneezing, and shortness of breath may occur following exposures in excess of appropriate exposure limits.

Acute oral toxicity on rats (LD50):N.A.

Medical Conditions Aggravated by Exposure: Inhaling respirable dust and/or crystalline silica may aggravate existing respiratory system disease(s) and/or dysfunctions. Exposure to dust may aggravate existing skin and/or eye conditions.

12. ECHOLOGICAL INFORMATION

Environmental Fate: No information found.

Environmental Toxicity: No information found.

13. DISPOSAL CONSIDERATIONS

Spilled material, where dust can be generated, may overexpose cleanup personnel to respirable crystalline silica-containing dust. Wetting of spilled material and/or use of respiratory protective equipment may be necessary. Do not dry sweep spilled material. Prevent spilled materials from inadvertently entering streams, drains, or sewers.

Waste disposal method

Pick up and reuse clean materials. Dispose of waste materials only in accordance with applicable International Regulations.

14. TRANSPORT INFORMATION

Classification: Not regulated

Label Requirements: Not required

UN Identification Number: None

Packing Group: None

Hazardous Substance: None

15. REGULATORY INFORMATION

Main general legislation if applicable, according to the international regulations.

16. OTHER INFORMATION