

Material Safety Data Sheet



IDENTITY (as Used on Label and List)

Limestone

Synonym: Aggregate

Section I

Manufacturer	
Hills Materials Company	Emergency Telephone Number (605) 394-3300
P.O. Box 2320	Telephone Number for Information (605) 394-3320
Rapid City, SD 57709	Date Prepared October 30, 2002 (Revised)

Section II—Hazardous Ingredients/Identity Information

Hazardous Components

(Specific Chemical Identity, Common Name(s))	CAS #	OSHA PEL	ACGIH TLV
Ground Limestone (Calcium Carbonate)*	01317-65-3	5 mg/M ³ (respirable)	10 mg/M ³
*Composition varies naturally – typically contains quartz (Crystalline Silica)	14808-60-7	10 mg/M ³ % SiO ₂ +2	0.05 mg/M ³ (respirable)

Section III—Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H₂O = 1)	2.6-2.75
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A

Solubility in Water

Slight (<1%)

Appearance and Odor

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

Section IV—Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media N/A			
Special Fire Fighting Procedures N/A			
Unusual Fire and Explosion Hazards			
Contact with acids will produce a violent exothermic reaction.			

Section V—Reactivity Data

Stability	Conditions to Avoid
Stable	Avoid contact with incompatible materials.
Incompatibility (Materials to Avoid)	
Material is highly alkaline. Contact with acids will produce a violent exothermic reaction. Silica dissolves readily in hydrofluoric acid producing a corrosive gas – silicon tetrafluoride.	
Hazardous Decomposition or Byproducts	
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.	
Hazardous Polymerization	Conditions to Avoid
Will not occur	None

OSHA 174 Sept. 1985

Section VI—Health Hazard Data

Route(s) of Entry	Inhalation? Possible	Skin? Unlikely	Ingestion? Unlikely
--------------------------	-----------------------------	-----------------------	----------------------------

Health Hazards

Acute: Irritation of the skin, eyes, or nasal passages. Cough and labored breathing if excessive dust is inhaled.

Chronic: Silica dust can cause Silicosis of the lung. Hypersensitive individuals may develop an allergic dermatitis.

Carcinogenicity:	NTP? No	IARC Monographs? No	OSHA Regulated? No
-------------------------	----------------	----------------------------	---------------------------

Signs and Symptoms of Exposure

Irritation of the eyes or skin

Coughing, sneezing, and shortness of breath.

Medical Conditions Generally Aggravated by Exposure

Inhaling respirable dust may aggravate existing respiratory system disease. Exposure to dust may aggravate existing skin and/or eye conditions.

Emergency and First Aid Procedures

EYES: Immediately flush eye with plenty of clean water for at least 15 minutes, while holding the eyelid open. Contact a physician if irritation persists or later develops.

SKIN: Wash with soap and water. Contact a physician if irritation persists or later develops.

INHALATION: Move to fresh air. Contact a physician if irritation persists or later develops.

Section VII—Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled

Clean up of spills may require personal protective equipment to prevent dust exposures and protect against alkali burns or irritation.

Waste Disposal Method

Pick up and reuse clean material. Dispose of waste material in accordance with Federal, State, and local regulations.

Precautions to Be Taken in Handling and Storing

Should be stored in a manner to prevent contact with strong acids.

Other Precautions

None

Section VII—Control Measures

Respiratory Protection

The use of a NIOSH approved respirator is recommended in a dusty environment.

Ventilation:	Local Exhaust Yes	Special No
	Mechanical (General) No	Other No

Protective Gloves Yes	Eye Protection Yes
------------------------------	---------------------------

Other Protective Clothing or Equipment

None

Work/Hygienic Practices

Wash dust-exposed skin with soap and water before eating, drinking, smoking, and using toilet facilities.

Wash clothes after each use.

Notice:

Hills Materials Company believes the information contained herein is accurate; however, Hills Materials Company makes no guarantees with respect to such accuracy and assumes no liability in connection with the use of the information contained herein by any party. The provision of the information contained herein is not intended to be and should not be construed as legal advice or as ensuing compliance with any federal, state, or local laws or regulations. Any party using this product should review all such laws, rules, or regulations prior to use.

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