



ALLEGHENY MINERAL CORPORATION
P.O. Box 1022, Kittanning, PA 16201 • Phone Kittanning (724) 548-8101
Plants in Harrisville, Slippery Rock and Murrinsville

Miners and Shippers of
Coal, Clay
and Limestone



MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

PRODUCT NAME: Limestone

TRADE NAMES AND SYNONYMS: Crushed Stone, Aggregate, Pulverized Limestone, Ag Lime, Manufactured Sand, Barn Lime

MANUFACTURER: Allegheny Mineral Corp.

ADDRESS: PO Box 1022
Kittanning, PA 16201

Date Prepared: 03/24/12

PHONE: 724-548-8101

EMERGENCY PHONE: 724-548-8101

SECTION 2: HAZARDS IDENTIFICATION

OSHA HAZARD COMMUNICATION STANDARD: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

ROUTES OF ENTRY: Eye contact, skin contact, inhalation, ingestion

POTENTIAL HEALTH EFFECTS

EYE CONTACT: Dust from this product may cause irritation to eyes.

SKIN CONTACT: Direct contact may cause irritation by mechanical abrasion.

INHALATION: Dust may irritate the nose, throat and respiratory tract. Coughing, sneezing and shortness of breath may occur following exposures in excess of appropriate exposure limits. Prolonged and repeated inhalation of respirable crystalline silica-containing dust in excess of appropriate exposure limits has caused silicosis, fibrosis or scar tissue formations in the lungs.

INGESTION: Although small quantities of dust are not known to be harmful, ingestion of large quantities may cause gastrointestinal irritation and blockage.

CARCINOGENICITY: Limestone is not listed as a carcinogen by NTP, OSHA or IARC. However, it may contain crystalline silica, a substances listed as a carcinogen by NTP, OSHA and IARC.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Inhaling dust may aggravate existing respiratory and lung diseases. Dust may aggravate existing skin and eye conditions.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS SUBSTANCE(S):

NAME	CAS#	PERCENT (by weight)
Limestone [‡]	1317-65-3	100%
[‡] Composition varies naturally – typically contains quartz (crystalline silica).	14808-60-7	>1%

SECTION 4: FIRST AID MEASURES

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

EYE CONTACT: Immediately flush the contaminated eye(s) with gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye. Contact a physician if irritation persists or later develops.

INHALATION: Remove source of contamination or move victim to fresh air. If breathing is difficult, trained personnel should administer emergency oxygen. Seek medical help if coughing and other symptoms persist.

INGESTION: If excessive amount is ingested, seek medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Use extinguishing media appropriate for surrounding fire.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS: Although Limestone poses no fire-related hazards, a self-contained breathing apparatus is recommended to limit exposure to combustion products when fighting any fire.

SPECIFIC HAZARDS ARISING FROM THE MATERIAL: Avoid breathing dust.

HAZARDOUS COMBUSTION PRODUCTS: none known

SECTION 6: ACCIDENTAL RELEASE MEASURES

METHODS FOR CLEAN-UP: Use appropriate clean-up methods such as shoveling, vacuuming or wetting to minimize dust exposure.

ENVIRONMENTAL PRECAUTIONS: Prevent spilled materials from inadvertently entering streams, drains or sewers.

SECTION 7: HANDLING AND STORAGE

HANDLING: Respirable crystalline silica containing dust may be generated during processing, handling and storage. The personal protection and controls identified in the MSDS should be used as appropriate.

STORAGE: Do not store near food, beverages or smoking material.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES**Exposure limits:**

Name	OSHA PEL	ACGIH TLV-TWA	MSHA
	mg/m ³	mg/m ³	mg/m ³
Limestone	15 (total dust) 5 (respirable dust)	10	10 (if contains <1% quartz)
Crystalline silica			
Total dust	30 / (% SiO ₂ +2)		30 / (%quartz+3)
Respirable	10 / (% SiO ₂ +2)	0.025 (R)	10 / (%quartz+2)

(E) = For particulate matter containing no asbestos and < 1% crystalline silica; (R) = Respirable fraction; (I) = Inhalable

ENGINEERING CONTROLS

Avoid creating dust and actions that cause dust to become airborne. Use general or local exhaust ventilation as required to maintain exposures below appropriate exposure limits. Use product in well ventilated areas. If ventilation is not adequate, see the respiratory protection recommended below.

PERSONAL PROTECTION**Respiratory Protection:**

At a minimum, a fitted, NIOSH approved P100 particulate respirator shall be worn if exposures exceed established limits.

Hand Protection:

None needed.

Eye Protection:

To prevent eye contact wear safety glasses with side shields, safety goggles or face shields when handling dust. Dust goggles should be worn in extremely dusty conditions.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

Physical state: solid

Appearance: Angular gray/white particles ranging in size from boulders to powder.

Odor: odorless

Specific Gravity (H₂O = 1): 2.6 – 2.75

Flammability: not flammable

Flash point °C (°F) [method]: not combustible

Flammable limits (approx. Volume % in air) – LEL: not applicable UEL: not applicable

Autoignition temperature °C (°F): not applicable

Boiling point/range °C (°F): not applicable

Vapor density @ 101 kPa (air =1): not applicable

Vapor pressure @ 20°C, kPa (mm Hg): not applicable

Evaporation rate (n-butyl acetate =1): 0

Solubility in water: 0

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable.

INCOMPATIBILITIES: 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 on hydrofluoric acid producing a poisonous gas – silicon tetrafluoride.

HAZARDOUS DECOMPOSITION PRODUCTS: 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 on hydrofluoric acid producing a poisonous gas – silicon tetrafluoride.

HAZARDOUS POLYMERIZATION: Not known to polymerize

SECTION 11: DISPOSAL CONSIDERATIONS

DISPOSAL RECOMMENDATIONS:

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

SECTION 12: TRANSPORT INFORMATION

DOT HAZARD CLASSIFICATION: None

PLACARD REQUIRED: None

LABEL REQUIRED: Label as required by the OSHA Hazard Communication Standard [29CFR 1910.1200] and applicable state and local laws and regulations.

SECTION 13: OTHER INFORMATION

ABBREVIATIONS:

ACGIH = American Conference of Governmental Industrial Hygienists

CAS = Chemical Abstract Service

CFR = Code of Federal Regulations

DOT = USA Department of Transportation

IARC = International Agency for Research on Cancer

MSHA = Mine Safety and Health Administration

NIOSH = National Institute for Occupational Safety and Health

NTP = National Toxicology Program

OSHA = Occupational Health and Safety Administration

PEL = Permissible Exposure Limit

TLV = Threshold Limit Value

TRI = Toxic Release Inventory

TWA = Time Weighted Average

DISCLAIMER:

While the information provided in this material safety data sheet is believed to provide a useful summary of the hazards of Limestone as it is commonly used, the sheet cannot anticipate and provide all of the information that might be needed in every situation. Inexperienced product users should obtain proper training before using this product. In particular, the data furnished in this sheet do not address hazards that may be posed by other materials mixed with Limestone.

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY Allegheny Mineral Corp., except that the product shall conform to contracted specifications. The information provided herein was believed by Allegheny Mineral Corp. to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information to comply with all laws and procedures applicable to the safe handling and use of product and to determine the suitability of the product for its intended use. Buyer's exclusive remedy shall be for damages and no claim of any kind, whether as to product delivered or for nondelivery of product, and whether based on contract, breach of warranty, negligence, or otherwise shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.