

Product Name: Argillite, Siltstone
Revision Date: 2/12/2021
Emergency Response Number: (610) 584-8500



MATERIAL SAFETY DATA SHEET

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION
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Product Name: Argillite, Siltstone
Chemical Formula: Mixture
Trade Name: Crushed Stone, Crushed Sand, Dimension Stone, Rip Rap
Manufacturer: Marshalls Creek Quarry
Route 209, P.O. Box 916, 7 Bridge Road
Marshalls Creek, PA 18335
(570) 223-8060

SECTION 2	HAZARDS IDENTIFICATION
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Substance: Eye Irritant - 2
Classification: Carcinogen - 1A
Skin Corrosion/Irritation - 2
Specific Target Organ Toxicity (Repeat Exposure) - 1

Argillite, Siltstone is a fine-grained sedimentary rock composed predominantly of indurated clay particles. It is an odorless, non-flammable, mixture of white to grey, black or red angular particles. Respirable dust particles containing silicon dioxide may be generated by handling rock. Inhalation of excessive particulate matter may cause respiratory problems. Crystalline silica, a component of this product, has been designated as a Group I carcinogen by IARC.



Signal Word: Danger, Warning
Hazard Statement: May cause eye irritation
May cause respiratory irritation
May cause damage to respiratory system through repeated inhalation
Primary Route of Exposure: Inhalation, Skin, Ingestion
Eye Contact: Direct contact with dust may cause irritation by mechanical abrasion.
Conjunctivitis may occur.
Skin Contact: Direct contact may cause irritation by mechanical abrasion. Some components of material are also known to cause mild corrosive effects to skin and mucous membranes.
Ingestion: Small amounts swallowed during normal handling operations are not likely to cause injury. Ingestion of large amounts may cause gastrointestinal irritation and blockage.

Inhalation: Dust may irritate nose, throat, mucous membranes and respiratory tract by mechanical abrasion. Coughing, sneezing, chest pain, shortness of breath, inflammation of mucous membrane, and flu-like fever may occur following exposures in excess of appropriate exposure limits. Repeated excessive exposure may cause pneumoconiosis, such as silicosis and other respiratory distress.

SECTION 3	COMPOSITION / INFORMATION ON INGREDIENTS
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COMPONENTS	Product Identifier (CAS No)	% by weight (approx)
Silicon Dioxide	7631-86-9	42-77
Aluminum Oxide	1344-28-1	5-17
Ferric Oxide	1309-37-1	3-15
Magnesium Oxide	1309-48-4	1-12
Calcium Oxide	1305-78-8	0-15
Sodium Oxide	1313-59-3	0-5
Calcium Carbonate	471-34-1	0-5
Potassium Oxide	12136-45-7	0-2

SECTION 4	FIRST AID MEASURES
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Eyes: Eye should be immediately flushed with warm water for at least 15 minutes. Do not attempt to remove material from eyes. If irritation, pain or swelling persists, seek medical attention.

Skin: Wash affected area thoroughly with mild soap and water. If irritation persists, seek medical attention.

Ingestion: Rinse mouth and drink plenty of water. Seek medical attention.

Inhalation: Move to a well ventilated area. If irritation develops, seek medical attention.

SECTION 5	FIRE FIGHTING MEASURES
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Fire Fighting: This product is not flammable. Use fire extinguishing media appropriate for surrounding materials.

SECTION 6	ACCIDENTAL RELEASE MEASURES
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Personnel Precautions: Dust generated from spilled materials may overexpose cleanup personnel to silica dust. Wetting spilled material and/or the use of respiratory protective equipment may be necessary.

Environmental Precautions: Avoid entry into sewers and waterways. Notify the proper authorities if discharge into sewers or waterways occurs.

Clean Up Procedures: Do not dry sweep. Dust from spilled material may expose personnel to respirable crystalline silica containing dust. Wetting of spilled materials or use of respiratory protective equipment may be necessary. Do not allow material to discharge into sewers, drains or waterways.

SECTION 7	HANDLING AND STORAGE
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Safe Handling: Keep airborne dust to a minimum if sawing, crushing or grinding and avoid breathing dust.

Safe Storage: Store in a well ventilated area. Keep away from incompatible materials. See Section 10 - Stability and Reactivity.

SECTION 8	EXPOSURE CONTROLS / PERSONAL PROTECTION
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EXPOSURE LIMITS

Component	OSHA PEL	ACGIH TLV	NIOSH REL
Silicon Dioxide	80 mg/m ³ / (% SiO ₂)	N/A	6 mg/m ³
Aluminum Oxide	5 mg/m ³ (Resp)	1 mg/m ³	N/A
	15 mg/m ³ (Total)		
Ferric Oxide	10 mg/m ³	5 mg/m ³ (Respirable)	5 mg/m ³
Magnesium Oxide	15 mg/m ³	10 mg/m ³	N/A
Calcium Oxide	5 mg/m ³	2 mg/m ³	2 mg/m ³
Sodium Oxide	5 mg/m ³ (Resp)	5 mg/m ³ (Resp)	N/A
	15 mg/m ³ (Total)	10 mg/m ³ (Total)	
Potassium Oxide	5 mg/m ³ (Resp)	5 mg/m ³ (Resp)	N/A
	15 mg/m ³ (Total)	10 mg/m ³ (Total)	
Calcium Carbonate	15 mg/m ³	10 mg/m ³	10 mg/m ³
Respirable Crystalline Silica	10 mg/m ³ (R) / (% SiO ₂ + 2)	0.025 mg/m ³	0.05 mg/m ³

Engineering Controls Use and store in well ventilated areas. Use of ventilation and/or wet suppression methods may be necessary to achieve allowable exposure limits

PERSONAL PROTECTIVE EQUIPMENT:

Skin: Long sleeves and pants should be worn when working with this material in dusty conditions.

Respiratory: NIOSH approved respirators should be used when dust exposure levels cannot be maintained below acceptable limits.

Eyes: Safety glasses with side shields should be worn as minimum protection. In extremely dusty environments, goggles should be worn. Contact lenses should not be worn when working with products that may generate dust.

Hands: Gloves should be worn to prevent abrasion.

SECTION 9	PHYSICAL AND CHEMICAL PROPERTIES
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Physical State: Solid

Appearance and Odor: Red to gray, white or tan angular particles, ranging in size. No odor.

pH: Not Determined

Specific Gravity: 2.5 - 2.7

Boiling Point: Not Determined

Melting Point: Not Determined

Freezing Point: Not Determined

Flash Point: Not Determined

Upper/Lower Flammability: Not Determined

Vapor Density: Not Determined

Vapor Pressure: Not Determined

Octanol/H ₂ O Coefficient:	Not Determined
Auto-ignition Temperature:	Not Determined
Evaporation Rate:	Not Determined
Solubility in Water:	Negligible
Viscosity:	Not Determined

SECTION 10	STABILITY AND REACTIVITY
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Stability:	Stable at standard temperatures and pressures
Reactivity:	Not considered reactive
Hazardous Reactions:	Hazardous polymerization will not occur.
Incompatibility:	Strong acids, alkalines and oxidizers. Powerful oxidizing agents such as fluoride, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen defluoride. Contact with these materials may cause fire and/or explosion. Silica dissolves in hydrofluoric acid producing a corrosive gas – silicon tetrafluoride.
Hazardous Decomposition Products:	Respirable crystalline silica containing dust may be generated. Quartz is slowly transformed to tridymite and cristobalite when heated.

SECTION 11	TOXICOLOGICAL INFORMATION
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Acute Toxicity:	Skin contact may cause irritation. Eye contact may cause irritation from mechanical abrasion. Inhalation may cause irritation of nose, throat and respiratory tract. Coughing, sneezing and shortness of breath may occur. Ingestion of large amounts of product may cause gastrointestinal irritation and blockage.
Chronic Toxicity:	Repeated inhalation of respirable crystalline silica may cause silicosis and/or cancer.
Symptoms:	Inhalation may cause respiratory irritation, shortness of breath and coughing. Skin contact may cause irritation. Eye contact may cause itching or redness. Ingestion may cause irritation of mouth and throat.

SECTION 12	ECOLOGICAL INFORMATION
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Avoid discharge to drains, sewers and waterways. Any release of this material should be contained and cleaned up immediately.

SECTION 13	DISPOSAL CONSIDERATIONS
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Uncontaminated material may be reused. Material contaminated with foreign substances should be disposed of in accordance with local, state, and federal laws and regulations. Avoid creating dust or fumes during disposal.

SECTION 14	TRANSPORT INFORMATION
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UN Number:	Not applicable
Proper Shipping Name:	Not applicable
DOT Hazard Classification:	Not applicable
Placard Required:	Not applicable
Special Precautions:	Not applicable

SECTION 15	REGULATORY INFORMATION
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Crystalline silica, a component of this product, is on the NTP and IARC carcinogen lists, but not on the OSHA carcinogen list. In October 1996, an IARC working group re-assessing crystalline silica, a component of this product, designated crystalline silica as a human carcinogen (Group 1 Carcinogen).

In October 1996, Crystalline silica was listed on the Safe Drinking Water and Toxic Enforcement ACT of 1986 (California Proposition 65) as chemical known to the state to cause cancer or reproductive toxicity.

SECTION 16	OTHER INFORMATION
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