

Vermiculite Ore

Safety Data Sheet

Rev: 02-2018



Section 1 Product Description

Product Name: Vermiculite Ore (all grades)
Synonyms: Vermiculite Crude, Vermiculite Concentrate, Vermiculite Unexpanded
General Use: To provide a lightweight aggregate or mineral filler for use in construction, horticulture, or industrial applications.
Product Description: A naturally occurring lightweight mineral produced in various grades.
Manufacturer: The Strong Company, Inc.
4505 Emmett Sanders Road
Pine Bluff, AR 71601
Chemical Information: (870) 535-7617
Emergency Number: (800) 982-8009

Section 2 Hazards Identification

Classification of the product in accordance with paragraph (d) of §1910.1200;

Signal Word:
Not applicable

GHS Classification:
Not applicable

Hazard Statements:
Not applicable

Precautionary Statements:

Prevention:
Not applicable

Response:
Specific treatment (see Section 4)

Storage:
Keep product sealed in original packaging until use.

Disposal:
Dispose of contents and container in accordance with local, regional, national, and international regulations.

Section 3 Composition/Information on Ingredients

| Chemical Name: | Common Name: | CAS #: | Weight %: |
|--|-----------------|------------|------------------|
| Vermiculite ore | Vermiculite ore | 1318-00-9 | ≤100% |
| Crystalline silica Respirable fraction, all sources | Quartz | 14808-60-7 | <0.01% <0.01% |

Section 4 First-Aid Measures

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| Inhalation: | Remove to well-ventilated place. If breathing difficulty occurs, administer oxygen. Seek medical help if coughing and other medical symptoms do not subside. |
| Eye Contact: | Immediately flush eyes with copious amounts of water. Continue flushing for 15 minutes including under the lids to remove all particles. Call a physician immediately if irritation persists. |
| Skin Contact: | Wash skin with pH-neutral soap and water. Apply moisture renewing lotions to heal dry, irritated skin. Seek medical attention in all cases of severe irritation or burns. |
| Ingestion: | Do NOT induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately. |

Section 5 Fire-Fighting Measures

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| General Hazards: | Product is not hazardous during normal fire-fighting procedures and contains less than 1% organic substances that may produce smoke, fumes, and/or hazardous gases. |
| Extinguishing Media: | Carbon dioxide, water, dry chemical, or foam may be used if smoldering occurs. |
| Fire-Fighting Protection: | No special protection required. |
| Fire and/or Explosion Hazards: | No fire or explosion hazards. |
| Hazardous Combustion Products: | Smoke, fumes, carbon dioxide, or carbon monoxide may be released. |

Section 6 Accidental Release Measures

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| Steps to Take in Case Material is Released or Spilled: | Product is not considered hazardous according to RCRA (40 CFR Part 261). Follow personal protective equipment recommendations found in Section 8 of this SDS at a minimum. Avoid creating dust and use adequate ventilation and/or dust collection during clean-up. Shovel or vacuum product into a sealed container pending a waste disposal evaluation. Do not discharge into lakes, ponds, streams, or waterways. |
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Section 7 Handling and Storage

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| Handling: | Avoid creating and breathing dust. At a minimum, follow personal protective equipment recommendations found in Section 8 of this SDS. |
| Storage: | Keep packaging sealed until use. |

Section 8 Exposure Controls/Personal Protection

| Chemical Name: | Total Dust: | OSHA PEL | | ACGIH TLV |
|--------------------|----------------------|------------------------|-------------------------|-----------|
| | | Respirable Fraction: | TWA: | |
| Vermiculite ore | 15 mg/m ³ | 5 mg/m ³ | 10 mg/m ³ | |
| Crystalline silica | N/A | 0.05 mg/m ³ | 0.025 mg/m ³ | |

Control Parameters

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| Engineering Measures: | Use local exhaust ventilation or other engineering controls to reduce dust concentrations below overexposure levels. Refer to ACGIH publication "Industrial Ventilation" or similar publications for design of ventilation systems. |
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Personal Protective Equipment (PPE)

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| Respiratory Protection: | When concentrations exceed PEL limits, respirator use is required. |
| Respirator Type(s): | N95 filtering facepiece or P95 half facepiece respirators are adequate for use during normal operation. |
| Eye Protection: | Wear tight fitting safety goggles to prevent contact with the eyes. |
| Skin Protection: | Wear impervious gloves, closed-toe shoes or boots, and protective clothing to prevent contact with the skin. |
| Glove Type(s): | Nitrile or latex gloves with a recommended thickness of 6 mils or greater. |

Section 9 Physical and Chemical Properties

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|----------------------------------|-------------------------------|-------------------------------------|-------------|
| Formula: | See Section 3 | Specific Gravity: | 2.6 |
| Appearance: | Gray to tan particles or dust | Vapor Pressure: | N/A (solid) |
| Odor: | Odorless | Evaporation Rate (BuAc = 1): | N/A (solid) |
| Lower Flammability Limit: | Not combustible | Vapor Density (Air = 1): | N/A (solid) |
| pH: | 6 – 10 (10% slurry in water) | Solubility in Water: | <1% |
| Melting Point: | 2426°F | Viscosity: | N/A (solid) |
| Boiling Point: | N/A | Volatile Organic Compounds: | N/A |

Section 10 Stability and Reactivity

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| Reactivity: | Not reactive under normal conditions. |
| Stability: | Stable under normal conditions. |
| Conditions to Avoid: | Unintentional contact with strong acids or reducing agents. |
| Incompatible Materials: | Hydrofluoric acid, strong acids, and reducing agents. |
| Hazardous Decomposition Products: | None known. |
| Hazardous Polymerization: | Will not occur. |

Section 11 Toxicological Information

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| Route(s) of Entry: | Inhalation, eye contact, skin contact, ingestion |
| Target Organs: | Acute: Eyes, Respiratory System, Skin, Stomach Chronic: Respiratory System, Immune System, Skin, Kidneys, Joints |
| Acute Symptoms: | Inhalation of the product can irritate the nose and respiratory tract causing inflammation, sneezing, runny nose, and/or coughing. Contact with moist tissues areas such as the eyes and nose can cause mild irritation. Skin contact can cause dryness or cracking and trigger dermatitis in sensitive individuals. Ingestion of small amounts may cause nausea and is not known to be harmful. |
| Delayed Symptoms: | None known. |
| Chronic Symptoms: | Prolonged or repeated exposure to dust may lead to a benign form of pneumoconiosis. Crystalline silica is listed by the IARC as a known carcinogen and causes the chronic lung disease known as silicosis. Silicosis is known to increase the risk of contracting tuberculosis. Crystalline silica has also been shown to lead to autoimmune and renal disorders. |

Acute Toxicity

| Chemical Name: | CAS #: | Oral LD50: | Dermal LD50: | Inhalation LC50: |
|-----------------------|---------------|-------------------|---------------------|-------------------------|
| Vermiculite ore | 1318-00-9 | Not determined | Not determined | Not determined |
| Crystalline silica | 14808-60-7 | Not determined | Not determined | Not determined |

Carcinogenicity

| Chemical Name: | CAS #: | IARC: | NTP: | OSHA: |
|-----------------------|---------------|-----------------|---------------|--------------|
| Vermiculite ore | 1318-00-9 | Not listed | Not listed | Not listed |
| Crystalline silica | 14808-60-7 | Listed, Group 1 | Listed, Known | Not listed |

Section 12 Ecological Information

Overview: Product is not expected to present an ecological hazard.
Mobility: Product is a solid and is expected to have low to zero mobility in soil.
Persistence: Product is expected to persist in the environment for an extensive period of time.
Degradability: Product is not expected to biodegrade quickly.
Other Adverse Effects: None known.

Section 13 Disposal Considerations

Overview: Not considered a hazardous waste under RCRA 40 CFR Part 261.
Disposal Methods: Dispose of in accordance with local, state, and federal regulations. Always contact a permitted waste disposer to ensure compliance. Refer to Section 8 to minimize exposure.
Waste Disposal Code(s): N/A

Section 14 Transport Information

Overview: Not considered a hazardous substance under U.S. DOT regulations.
UN No.: N/A **Hazard Class:** N/A
UN Shipping Name: N/A **Packing Group No.:** N/A

Section 15 Regulatory Information

OSHA HCS: The components of this product are considered hazardous chemicals under this regulation and should be included in an employer's Hazard Communication Program.
TSCA Status: All non-proprietary components in this product are on the TSCA Inventory.
FHSA: This product is not considered a hazardous substance under the act and is not subject to its statutes.

| Reporting Requirements: Chemical Name: | EPCRA (SARA Title III) | | | | | CERCLA 40 CFR 302: | CAA 112(r) |
|---|------------------------|--------|----------------|----------------|--------|-----------------------|---------------|
| | § 302: | § 304: | § 311: | § 312: | § 313: | | |
| Vermiculite ore | No | No | Yes, 10,000 lb | Yes, 10,000 lb | No | No | No |
| Crystalline silica | No | No | Yes, 10,000 lb | Yes, 10,000 lb | No | No | No |

California Prop. 65: N/A

Section 16 Other Information

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to The Strong Company, Inc. that we believe to be accurate. The Strong Company, Inc. makes no representation or guarantee as to the suitability of this information to a particular application of this product covered in this (Material) Safety Data Sheet. Users have the responsibility to comply with all health, safety, and environmental laws and regulations when using this product and should determine the suitability of this product for its intended use.

Glossary

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| ACGIH | American Conference of Governmental Industrial Hygienists | IARC | International Agency for Research on Cancer |
| CAA | Clean Air Act | LD(C)50 | Median Lethal Dose (Concentration) |
| CAS | Chemical Abstract Service Number | OSHA | Occupational Safety and Health Administration |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act | PEL | Permissible Exposure Limit |
| CFR | Code of Federal Regulations | N/A | Not Available or Not Applicable |
| DOT | U.S. Department of Transportation | NTP | National Toxicology Program |
| EPCRA | Emergency Planning and Community Right-to-Know Act | RCRA | Resource Conservation and Recovery Act |
| FHSA | Federal Hazardous Substances Act | SARA | Superfund Amendments and Reauthorization Act |
| HCS | Hazard Communication Standard | TLV | Threshold Limit Value |
| | | TSCA | Toxic Substances Control Act |
| | | TWA | 8-Hour Time Weighted Average |