

# MATERIAL SAFETY DATA SHEET

## SECTION 1 – PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME: Concrete Aggregate**

GENERAL USE: As an ingredient required to make lightweight concrete roof fill.

PRODUCT DESCRIPTION: A lightweight aggregate with additives to enhance performance and workability.



MANUFACTURER'S NAME  
The Strong Company, Inc.

DATE PREPARED: January 1, 2006  
SUPERCEDES: July 24, 1995

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ADDRESS  
4505 Emmett Sanders Road

TELEPHONE NUMBER FOR INFORMATION  
(870) 535-7617

Pine Bluff, AR 71601

EMERGENCY TELEPHONE NUMBER  
1(800) 982-8009

DISTRIBUTOR'S NAME

ADDRESS

TELEPHONE NUMBER FOR INFORMATION

EMERGENCY TELEPHONE NUMBER

## SECTION 2 – HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	CAS #	Weight %	OSHA PEL		ACGIH TLV
			Total Dust	Respirable Dust	TWA
Vermiculite - Expanded	1318-00-9	proprietary	15 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Proprietary Formula Enhancing Additives	varies	proprietary	15 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

An OSHA PEL or ACGIH TLV has not been established specifically for vermiculite, however it would fall under the category Particles Not Otherwise Regulated (PNOR) (OSHA) or Particles Not Otherwise Classified (PNOC) (ACGIH).

## SECTION 3 – HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Vermiculite is an inert mineral product that may irritate the eyes, skin, mucous membranes, or respiratory tract. Avoid breathing dust and wear respiratory protection when airborne dust is present. Use moisture renewing lotions for dry skin.

### POTENTIAL HEALTH EFFECTS

**INHALATION:** Vermiculite may cause irritation of the mucous membranes of the nose, throat or upper respiratory system.

**SKIN:** May cause drying of the skin with mild irritation. Use moisture renewing lotions if irritation and dryness persists.

**EYES:** May cause irritation of the eyes.

**INGESTION:** No known adverse health effects have been identified from ingested vermiculite.

**HEALTH HAZARDS (ACUTE AND CHRONIC):** No known long term health effects have been identified for vermiculite products free of crystalline silica and asbestos fibers. Current available analytical reports have not identified either crystalline silica or asbestos fibers above detectable levels in this material.

**CARCINOGENICITY:** There are no known carcinogenic effects for vermiculite products free from crystalline silica or asbestos fibers.

**MEDICAL CONDITIONS GENERALLY AGGREGATED BY EXPOSURE:** Upper respiratory conditions such as asthma or emphysema may be aggravated by inhalation of dust generated by the product.

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**SECTION 4 – FIRST AID MEASURES**

INHALATION: Remove to fresh air. If breathing difficulty occurs, administer oxygen. Seek medical help if coughing and other medical symptoms do not subside.

SKIN: Wash skin with soap and water. Applying moisture renewing lotions to dry, irritated skin. Seek medical attention in all cases of severe irritation.

EYES: Immediately flush eyes with copious quantities of water. Continue flushing for 15 minutes including under the lids to remove all particles. Call a physician if irritation develops.

INGESTION: Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician if severe discomfort is experienced.

**SECTION 5 – FIRE FIGHTING MEASURES**

FLASH POINT (METHOD USED)	N/A	FLAMMABLE LIMITS	LEL:	N/A	UEL:	N/A
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GENERAL HAZARDS: : Is not hazardous during fire fighting procedures; however the product contains less than 5% organic substances that may produce carbon dioxide, carbon monoxide or oxides of sulfur.

EXTINGUISHING MEDIA: None required.

FIRE FIGHTING PROCEDURES: No special procedures required.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS COMBUSTION PRODUCTS: Small quantities of smoke, fumes, and oxides of carbon or sulfur may be released.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Although this material is not considered hazardous under RCRA (40 CFR Part 261), do not discharge waste into lakes, ponds, streams, or waterways. Avoid creating dust. Use adequate ventilation and dust collection.

**SECTION 7 – HANDLING AND STORAGE**

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Avoid creating dust. Repair or properly dispose of broken bags.

**SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION**

**ENGINEERING CONTROLS**

Use local exhaust to reduce dust concentrations to levels below the OSHA PEL or the ACGIH TLV. Refer to ACGIH publication "Industrial Ventilation" or similar publications for design of ventilation systems.

**PERSONAL PROTECTION**

RESPIRATORY PROTECTION: If dust levels exceed the OSHA PEL or ACGIH TLV, respiratory protection such as dust masks are recommended. Dust masks certified to standard 42 CFR Part 84, series N95 are considered adequate.

PROTECTIVE GLOVES: Not required but may help reduce the drying effects if skin comes in contact with the product. Use moisture renewing lotions before and after use to retard drying effects.

EYE PROTECTION: Not normally required. Protective goggles are recommended where there is the possibility of eye contact.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None required.

WORK/HYGIENIC PRACTICES: Avoid creating dust. Avoid contact with skin and eyes.

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### SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

VAPOR PRESSURE (mm Hg) N/A	VAPOR DENSITY (AIR=1) N/A
SPECIFIC GRAVITY (WATER=1) 2.6	EVAPORATION RATE (WATER=1) N/A
SOLUBILITY IN WATER <5%	FREEZING POINT N/A
Ph 8-9 (10% slurry in water)	APPEARANCE AND ODOR Odorless tan to golden particles
BOILING POINT N/A	PHYSICAL STATE Solid (powder)
VISCOSITY N/A	VOLATILE ORGANIC COMPOUNDS N/A

### SECTION 10 – STABILITY AND REACTIVITY

STABILITY: STABLE: X UNSTABLE:	CONDITIONS TO AVOID: Do not store with or near strong acids, or reducing agents.
INCOMPATIBILITY (MATERIALS TO AVOID): Vermiculite is a silicate mineral that may react with hydrofluoric acid.	
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: None.	
HAZARDOUS POLYMERIZATION: MAY OCCUR: WILL NOT OCCUR: X	CONDITIONS TO AVOID: None known.

### SECTION 11 – TOXICOLOGICAL INFORMATION

HAZARDOUS INGREDIENT	CAS #	LD50 (Specify species & route)	LC50 (Specify species)
Vermiculite - Expanded	1318-00-9	Not determined	Not determined
Proprietary Formula Enhancing Additives	varies	Not determined	Not determined

### SECTION 12 – ECOLOGICAL INFORMATION

No known data available on the adverse effects of this material on the environment.

### SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Not considered a hazardous waste under RCRA 40 CFR Part 261. Dispose of in accordance with Local, State and Federal Regulations.

### SECTION 14 – TRANSPORT INFORMATION

Not considered to be hazardous under U.S. Department of Transportation (DOT) regulations.

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Date Prepared: January 1, 2006

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## **SECTION 15 – REGULATORY INFORMATION**

### OSHA Hazard Communication Standard

The components of this product are considered hazardous chemicals under this regulation and should be included in an employer's Hazard Communication Program.

### CERCLA/Superfund 40 CFR 117 and 302

Not listed

### SARA Title III Sections 311 and 312

This product qualifies as a hazardous substance with delayed health effects.

### SARA Title III Section 313

Not subject to reporting requirements under Section 313

### TSCA Inventory

This product is listed in the TSCA Inventory

### California Proposition 65

This product may contain trace quantities (below currently detectable levels) of asbestos fibers and crystalline silica, substances known to the state of California to cause cancer. This product may also contain trace amounts of heavy metals or organic compounds known to the State of California to cause cancer, birth defects, or other reproductive toxins.

## **SECTION 16 – OTHER INFORMATION**

### HMIS HAZARD RATINGS:

HEALTH - \*

FLAMMABILITY - 0

PHYSICAL HAZARD - 0

REACTIVITY - 0

PERSONAL PROTECTIVE EQUIPMENT - E

0 = Insignificant

1 = Slight

2 = Moderate

3 = High

4 = Extreme

\* = Chronic Health Hazard

(E = SAFETY GLASSES, GLOVES, DUST RESPIRATOR)

(“Chronic” refers to long term health effects that may result from repeated overexposure)

The information provided herein by the Strong Company is believed to be accurate at the time of preparation or prepared from sources believed to be reliable. Users have the responsibility to comply with all health and safety laws, as well as environmental regulations when using this product, and should determine the suitability of the product for its intended use. Seller makes no warranty, express or implied, concerning the product or the merchantability or fitness thereof for any purpose or concerning the accuracy of information provided by the Strong Company.