

**SAFETY DATA SHEET**

Version 1.1

Revision Date: 03/25/2020

**1. IDENTIFICATION****Product Identifiers**

Product Name: Masonry Insulation  
 Product Number: Varies; All Loose Fill Thermal Insulation Products  
 Trade Name: Vermiculite  
 General Use: Multi-Functional Industrial/Commercial Product  
 Chemical Family: Planer Hydrous Phyllosilicate

**Relevant Identified Uses**

Identified Uses: Heat-resistant, inert, inorganic, lightweight, and absorbent loose fill thermal insulation for use as an insulating material and in sound proofing applications

**Supplier Details**

Company: Specialty Vermiculite LLC  
 26383 HWY 221 N  
 Enoree, SC 29335  
 Phone: (864) 969-3353

**Emergency Telephone Number**

Emergency Phone#: (864) 969-3353; Office Hours, 8AM-5PM US Eastern Standard Time

**2. HAZARDS IDENTIFICATION****Classification of the substance or mixture**

**Component Classified** – None

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)** – Not Classified

**GHS Label elements, including precautionary statements**

Pictogram Not applicable  
 Signal word No signal word  
 Hazard statement(s) Not applicable  
 Precautionary statement(s) Not applicable

**Hazards not otherwise classified (HNOC) or not covered by GHS** – none

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance/Mixture:** Mixture

**Other Means of Identification:** Water-Based Vermiculite Dispersion

**Ingredients**

Chemical Name, Empirical Formula	CAS Number	EINECS Number	Percentage (%)
Magnesium Aluminum Iron Silicate	1318-00-9	310-127-6	99% WT
Treatment Additives*	Proprietary	----	<1% WT

\* The exact composition of Non-Hazardous Proprietary Ingredients is a trade secret in accordance with paragraph (i) of §1910.1200

**Hazardous Components**

These products may contain naturally occurring Respirable Crystalline Silica at trace concentration levels below HazCom 2012 and GHS Revision 3 hazard classification limits. Per XRC(M) analysis, which combines the analytical capabilities of Inductively Coupled Plasma Optical Emissions Spectrometry, X-Ray Diffraction, Computer Controlled Scanning Electron Microscopy/Energy Dispersive Spectroscopy and Raman Spectroscopy to conduct particle-by-

particle physicochemical/mineralogical analysis - naturally occurring trace level substances in these products, including Respirable Crystalline Silica are inextricably bound, environmentally unavailable and at de minimis concentrations. Thus, in accordance with the stated application, they are believed to be incapable of causing harm under normal conditions of use or in an extreme upset environment.

#### **Additional Information**

Per the XRD Rietveld Method, used to determine mixture components and content, there are no additional ingredients present at significant levels within these products and based on the best available information, any trace level impurities that might exist are not at concentration levels capable of triggering detection or classification and hence, are not reportable within this section. Additional GC-MS analysis of leachate collected from the MOPS-Mucin biological leaching protocol, indicates that there are proprietary ingredients being released under either occupational or environmental exposure conditions and that exposure to these ingredients is insignificant and/or environmentally unavailable. Therefore, any and all trace level components have been excluded from reporting and classification as either a health or environmental hazard.

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### **4. FIRST AID MEASURES**

#### **Description of Necessary First Aid Measures**

**Eye Contact:** In case of eye contact, flush eyes with water. If necessary, seek medical attention.

**Inhalation:** If adverse effects occur, remove to uncontaminated area. If not breathing, give artificial respiration or oxygen by qualified personnel. Seek immediate medical attention.

**Skin Contact:** Use good hygiene practices including washing of skin with soap and water. If irritation occurs, seek medical attention.

**Ingestion:** Not an anticipated route of exposure. If a large amount is swallowed, get medical attention.

#### **Most Important Symptoms/Effects, Acute and Delayed**

##### **Potential Acute Health Effects**

Eye Contact	No known significant effects or critical hazards
Inhalation	No known significant effects or critical hazards
Skin Contact	No known significant effects or critical hazards
Ingestion	No known significant effects or critical hazards

##### **Over-Exposure Signs/Symptoms**

Eye Contact	No known significant effects or critical hazards
Inhalation	Long term exposure to high airborne concentrations may result in inflammation of the small airways and asthma-like symptoms
Skin Contact	No known significant effects or critical hazards
Ingestion	No known significant effects or critical hazards

#### **Indication of any Immediate Medical Attention and Special Treatment Needed**

Treat symptomatically. Seek medical care if large quantities have been ingested or inhaled.

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### **5. FIREFIGHTING MEASURES**

#### **Suitable Extinguishing Media**

Use an extinguishing agent suitable for the surrounding fire.

#### **Unsuitable Extinguishing Media**

None Known

#### **Special Hazards Arising from the Chemical**

No specific fire or explosion hazard

#### **Hazardous Thermal Decomposition Products**

None Known

#### **Special Protective Actions for Firefighters**

No special measures are required

#### **Special Protective Equipment for Firefighters**

Fire-fighters should wear protective equipment appropriate to the fire hazard which exists.

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

#### For Non-Emergency Personnel

Products are naturally occurring earthen materials. No special precautions are known.

#### For Emergency Responders

Products are naturally occurring earthen materials. No special precautions are known.

#### Environmental Precautions

Products are naturally occurring earthen materials. No special precautions are known.

### Methods and Material for Containment and Cleaning Up

Handle wastes in accordance with local requirements.

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## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Wear personal protective equipment in accordance with those recommendations provided in Section 8. Use good hygiene practices and wash hands and face before eating, drinking or conducting personal hygiene. Reduce contamination from clothing and protective equipment before entering eating areas.

### Conditions for Safe Storage, Including any Incompatibilities

Store in accordance with local regulations.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Occupational Exposure Limits (General Dusts):

OSHA (PEL):	15 mg/m <sup>3</sup> (TWA, total particulates, not otherwise regulated)
	5 mg.m <sup>3</sup> (TWA, respirable particulates, not otherwise regulated)
ACGIH (TLV):	10 mg/m <sup>3</sup> (TWA, inhalable particulates, not otherwise regulated)
	3 mg/m <sup>3</sup> (TWA, respirable particulates, not otherwise regulated)

### Engineering Controls:

Observe occupational exposure limits and provide local ventilation as necessary to control dust inhalation.

### Personal Protection:

**Hygiene Measures:** No specific recommendation made, but good hygiene practices are advised. Wash hands, forearms and face after handling products and prior to eating, smoking, and using the lavatory.

**Eye/Face Protection:** Wear eye protection where excessive eye contact may occur. Provide eyewash station.

**Skin and Body Protection:** Follow good Industrial Hygiene practices. Wash hands at the end of each work shift and before eating, smoking, and personal hygiene.

**Respiratory Protection:** No specific recommendations made, but respiratory protection must be used where general dust levels exceed occupational exposure limits. If desired, appropriate respiratory protection may be utilized in high dust conditions and affected work areas.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Solid Granular Platelets
<b>Color:</b>	Light Tan to Black
<b>Upper/lower flammability/explosive limits:</b>	Not Applicable
<b>Odor:</b>	Odorless
<b>Odor threshold:</b>	Not Applicable
<b>Vapor pressure:</b>	Not Applicable
<b>Vapor density:</b>	Not Applicable
<b>VOC Content:</b>	None, as produced
<b>Viscosity:</b>	Not Applicable
<b>pH:</b>	Not Applicable
<b>Specific Gravity:</b>	1.1 (Water =1)
<b>Melting/Freezing point:</b>	>100°C (212°F @760 mm Hg) / Not Applicable
<b>Solubility(ies)</b>	Not Available
<b>Initial boiling point and boiling range:</b>	Not Available
<b>Partition coefficient: n-octanol/water:</b>	Not Available
<b>Flash point:</b>	Not Applicable

<b>Auto-ignition temperature:</b>	Not Applicable
<b>Evaporation rate</b>	Not Available
<b>Decomposition temperature:</b>	Not Available
<b>Flammability (solid, gas):</b>	Not Flammable (Inorganic Solid)

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## 10. STABILITY AND REACTIVITY

### Reactivity

Stable under normal temperature conditions.

### Chemical Stability

Stable under normal storage and handling conditions.

### Possibility of Hazardous Reactions

None known under normal conditions of storage and use.

### Conditions to Avoid (*e.g., static discharge, shock, or vibration*)

None known under normal conditions of storage and use.

### Incompatible Materials

None known under normal conditions of storage and use.

### Hazardous Decomposition Products

None known under normal conditions of storage and use.

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## 11. TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects

**Acute Toxicity:** This product is not classified.

**Irritation/Corrosion:** This product is not classified.

**Sensitization:** This product is not classified.

**Mutagenicity:** This product is not classified.

**Carcinogenicity:** This product is not classified.

**Reproductive Toxicity:** This product is not classified.

**Teratogenicity:** This product is not classified.

**Specific Target Organ Toxicity (Single Exposure):** This product is not classified.

**Specific Target Organ Toxicity (Repeated Exposure):** This product is not classified.

**Aspiration Hazard:** This product is not classified.

### Information on the Likely Routes of Exposure (Dermal Contact, Eye Contact, Inhalation, Ingestion)

#### Potential Acute Health Effects

**Eye Contact:** No known significant health effects or critical hazards.

**Inhalation:** No known significant health effects or critical hazards.

**Skin Contact:** No known significant health effects or critical hazards.

**Ingestion:** No known significant health effects or critical hazards.

#### Symptoms Related to the Physical, Chemical and Toxicological Characteristics

**Eye Contact:** No known significant health effects or critical hazards.

**Inhalation:** No known significant health effects or critical hazards.

**Skin Contact:** No known significant health effects or critical hazards.

**Ingestion:** No known significant health effects or critical hazards.

## Delayed and Immediate Effects and Also Chronic Effects from Short and Long Term Exposure

### Short Term Exposure

**Potential Immediate Effects:** No known significant health effects or critical hazards.

**Potential Delayed Effects:** No known significant health effects or critical hazards.

### Long Term Exposure

**Potential Immediate Effects:** No known significant effects or critical hazards.

**Potential Delayed Effects:** No known significant effects or critical hazards.

### Potential Chronic Health Effects

**General:** No known significant effects or critical hazards.

**Carcinogenicity:** No known significant effects or critical hazards.

**Mutagenicity:** No known significant effects or critical hazards.

**Teratogenicity:** No known significant effects or critical hazards.

**Developmental Effects:** No known significant effects or critical hazards.

**Fertility Effects:** No known significant effects or critical hazards.

### Numerical Measures of Toxicity

**Acute Toxicity Estimates:** No data available for this product.

**Toxicity:** No data available for this product.

**Persistence and Degradability:** No data available for this product.

**Bioaccumulative Potential:** No data available for this product.

**Mobility in Soil (Soil/Water Partition Coefficient):** No data available for this product.

**Other Adverse Effects:** None known

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Not regarded as dangerous for the environment.

### Acute Fish Toxicity

Not considered toxic to fish.

### Persistence and Degradability

These products are not readily biodegradable.

### Bioaccumulative Potential

These products are not bioaccumulating.

### Mobility in Soil

Not relevant, due to the form of the products.

### Other Adverse Effects

None. Microwhite products represent a heat processed inorganic, inert material that does not constitute any known health hazards and is non-combustible.

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## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

Dispose of waste and residues in accordance with local and national environmental requirements.

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**14. TRANSPORT INFORMATION**

	<b>DOT Classification</b>	<b>IMDG</b>	<b>IATA</b>
<b>UN Number</b>	Not Regulated	Not Regulated	Not Regulated
<b>UN Proper Shipping Name</b>	--	--	--
<b>Transport Hazard Class(es)</b>	--	--	--
<b>Packing Group</b>	--	--	--
<b>Environmental Hazards</b>	No	No	No

**AERG:** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable.

**Special Precautions for User:** Not applicable

**Additional Information:** Non-bulk packages of this product are not regulated as hazardous materials. This product is not regulated as a hazardous material when transported in sizes of ≤5 L or ≤5 kg, provided the packaging meets general provisions of DOT §§ 173.24 and 173.24a; IMDG 4.1.1.1, 4.1.1.2 and 4.1.1. 4 to 4.1.1.8.; and IATA 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

**15. REGULATORY INFORMATION**

**US Federal Regulations**

**TSCA 8(a) PAIR**

Not determined

**TSCA 8(a) CDR Exempt/Partial exemption**

Not determined

**United States Inventory (TSCA 8b)**

All components are listed or exempted

**Clean Air Act Section 112(b) Hazardous Air Pollutants (HAP's)**

Not listed

**Clean Air Act Section 602 Class I Substances**

Not listed

**Clean Air Act Section 602 Class II Substances**

Not listed

**DEA List I Chemicals (Precursor Chemicals)**

Not Listed

**DEA List II Chemicals (Essential Chemicals)**

Not Listed

**SARA 302/304 - Composition/Information on Ingredients**

No products were found

**SARA 313/304 RQ**

Not Applicable

**SARA 311/312 - Classification**

Not applicable

**SARA 313**

Not applicable. This product does not contain chemicals subject to SARA Title III Section 313 Reporting requirements.

## State Regulations

### California Proposition 65 Components

These products may contain trace levels of naturally occurring crystalline silica (Quartz-CAS # 14808-60-7). Internationally recognized test methods have shown that this component ingredient is not biologically significant and therefore, incapable of causing harm under normal conditions of use or as a result of extreme upset.

### Other State Right to Know Components

No investigation of State and Local requirements was performed. For details on these regulatory requirements, contact the appropriate agencies within your region.

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## 16. OTHER INFORMATION

### Procedures Used to Drive Classification

Classification	Justification
Not Classified	Toxicology Library and Available Databases

### Further Information

License granted to make unlimited paper copies for internal use only. The above information is believed to be correct as of the date of preparation and does not purport to be all inclusive or account for naturally occurring variation in the composition of raw ores. It therefore, represents no guarantee of the properties associated with these products.

The information in this document should be used only as a guide in applying the appropriate safety precautions and professional consultation is advised. Should naturally occurring variation cause significant change in product composition, this information will undergo revision as appropriate. Specialty Vermiculite LLC and its affiliates shall not be held liable for any damage resulting from the end user's handling or contact with these products.