



Specialty Vermiculite Corp.

## SAFETY DATA SHEET

Product Name: Masonry Insulation  
SDS ID Number: Z-01792

SDS Date: 4/17/2015

### SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Masonry Insulation  
**SDS Number:** Z-01792  
**Cancelled MSDS Number:** Z-01713  
**Chemical Family Name:** Expanded Vermiculite (Enoree, South Carolina); Magnesium-Aluminosilicate Mineral  
**Product Use:** Aggregate Insulating Material for Masonry Applications  
**Chemical Formula:**  $(\text{Mg, Ca, K, Fe}^{\text{II}})_3 (\text{Si, Al, Fe}^{\text{III}})_4 \text{O}_{10} (\text{OH})_2 \cdot 4(\text{H}_2\text{O})$   
**CAS # (Chemical Abstract Service Number):** Mixture-N/A  
**Manufactured by:**  
Specialty Vermiculite  
26383 Hwy 221 N  
Enoree, SC 29335  
Specialty Vermiculite  
14810- 123<sup>rd</sup> Avenue  
Edmonton, Alberta T5L 2Y5

**In Case of Emergency Call:**

Enoree Plant: (800)342.2017

Edmonton Plant: (780)454.4511

### SECTION 2 – HAZARDS IDENTIFICATION

**Classifications:**

Acute toxicity (oral, dermal, inhalation): Category 4

**Pictogram:**



**Signal Word:**

**WARNING**

**Hazard Statements:**

H305: May be harmful if swallowed and enters airways.

H320: Causes eye irritation

**Precautionary Statements:**

P270: Do not eat, drink or smoke when using this product.

P280: Wear protective gloves/protective clothing/eye protection/face protection

**Response:**

P301: IF SWALLOWED: Dilute with large quantities of water. Consult a physician if symptoms develop.

Never give anything by mouth to an unconscious person.

P302: IF ON SKIN: Wash with soap and water. If discomfort or irritation persists, consult a physician.

Remove contaminated clothing and wash before reuse.

P304: IF INHALED: Get fresh air. If symptoms persist, consult a physician. If breathing has stopped, give artificial respiration then oxygen if needed.

P305: IF IN EYES: Flush eyes with water for at least 15 minutes while holding eyelids open. If discomfort or irritation persists, consult a physician.

**Storage:**

P402: Store in a dry place.

**Disposal:**

P501: Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing waste for disposal. According to EPA (40 CFR § 261), waste of this product is not defined as hazardous. Dispose of waste in accordance with all applicable regulations. According to US EPA (40 CFR § 261.3) waste of this product is not defined as hazardous.

**SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS#	Percent (max)
Vermiculite	001318-00-9	50-100
Quartz	014808-60-7	1-10

**SECTION 4 – FIRST AID MEASURES:**

**Skin Contact:** Wash with soap and water. If discomfort or irritation persists, consult a physician. Remove contaminated clothing and wash before reuse.

**Eye Contact:** Flush eyes with water for at least 15 minutes while holding eyelids open. If discomfort or irritation persists, consult a physician.

**Ingestion:** Dilute with large quantities of water. Consult a physician if symptoms develop. Never give anything by mouth to an unconscious person.

**Inhalation:** If symptoms develop, get fresh air. If symptoms persist, consult a physician. If breathing has stopped, give artificial respiration then oxygen if needed.

**SECTION 5 – FIRE FIGHTING MEASURES**

**Extinguishing Media:** Not Applicable. Product will not burn.

**Special Fire Fighting Procedures:** None

No special procedures specific to this product.

**Unusual Fire and Explosion Hazards:** None.

**SECTION 6 – ACCIDENTAL RELEASE MEASURES:**

**Spills/Leaks:** Carefully shovel or sweep up spilled material and place in suitable container for recycle or disposal. Dampen with water spray or use other methods to clean spill which avoid creating dust. Discard empty packaging promptly. Avoid excessive handling of empty packaging, which may result in unnecessary release of airborne particulates.

**SECTION 7 – HANDLING AND STORAGE**

**Handling Procedures:**

Material is for professional use only. Keep out of the reach of children.

**Precautionary Measures:**

Avoid contact with eyes, skin and clothing.

Avoid creating and inhaling airborne dust or particulates.

Do not take internally.

Practice good personal hygiene to avoid ingestion.

Use only with adequate ventilation.

Wash clothing before reuse.

**Respiratory Protection:** Respiratory protection may be desirable if dust is created in handling and is required at or above the Permissible Exposure Limit (PELs). A dust respirator such as a 3M type P-95 is recommended.

**Skin Protection:** Gloves are recommended.

**Eye Protection:** Safety glasses or goggles should be worn.

**Work/Hygienic Practices:** Use good personal hygiene practices.

## SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

### EXPOSURE GUIDELINES (US)

Ingredient	ACGIH TLV			OSHA PEL			Other
	TWA	STEL	Ceiling	TWA	STEL	Ceiling	
Vermiculite	—	—	—	—	—	—	—
Quartz	0.025 mg/m <sup>3</sup> TWA (respirable fraction)			0.1 mg/m <sup>3</sup> TWA (respirable dust)			

In addition to the exposure limits referenced above, the following non-specific limits for dust apply to this product; OSHA, 15 mg/m<sup>3</sup>- TWA or Total Dust and 5 mg/m<sup>3</sup>- TWA as Respirable Dust, ACGIH, 10 mg/m<sup>3</sup>- TWA as Total Dust and 3 mg/m<sup>3</sup>- TWA as Respirable Dust.

### EXPOSURE GUIDELINES (CANADA)

Employers should consult local Provincial regulatory limits for exposure guidelines which may vary locally.

**Engineering Controls:** General ventilation may be desirable and should be used where appropriate.

**Personal Protective Equipment:**

**Respiratory Protection:** Respiratory protect may be desirable if dust is created in handling and is required at or above the Permissible Exposure Limit (PEL) for nuisance particulates.

**Skin Protection:** Gloves are recommended.

**Eye Protection:** Safety glasses or goggles should be worn.

**Work/Hygienic Practices:** Use good personal hygiene practices.

Quartz (Crystalline silica) is a naturally occurring mineral that is commonly contained in materials that are mined from the earth's surface such as sand, limestone, clay and gypsum (calcium sulfate). Total quartz is a value usually representing the combined fraction of large, non-respirable sized particles and of respirable sized particles (less than ten micros in aerodynamic diameter). It is only the respirable sized fraction of total quartz that is recognized as hazardous by professionals in the field of Occupational Health and by most regulatory agencies

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State:</b>	Solid
<b>Appearance/Odor:</b>	Brown or Grey free flowing aggregate
<b>Odor Threshold:</b> (ppm)	Not Determined
<b>pH:</b>	Not Applicable
<b>Melting point/Freezing point:</b>	>1320°C
<b>Vapor Pressure:</b> (Mm Hg)	Unknown
<b>Vapor Density:</b> (Air = 1)	Unknown
<b>Solubility In Water:</b>	Negligible
<b>Specific Gravity:</b> (Water = 1)	Not Applicable
<b>Evaporation Rate:</b> (Butyl Acetate=1)	Not Applicable
<b>Boiling Point:</b>	Not Applicable
<b>Flammability:</b>	Not Available
<b>Viscosity:</b>	Not Applicable
<b>Bulk Density:</b> (pounds/Cubic Foot) (Pcf)	4-10 PCF
<b>% Volatiles (gr/L):</b> (70°F) (21°C)	Not Available
<b>Partition coefficient: n-octanol/water</b>	Not Available
<b>Flash Point:</b>	Not Applicable
<b>Flash Point Method:</b>	Not Applicable
<b>Lower Explosion Limit:</b>	Not Available
<b>Upper Explosion Limit:</b>	Not Available
<b>Auto-Ignition Temperature:</b>	Not Available
<b>Decomposition Temperature:</b>	Not Available

**SECTION 10 – STABILITY AND REACTIVITY**

**Chemical Stability:** Stable

**Hazardous Reactivity Potential:** Will not occur

**Conditions to Avoid:** Expanded Vermiculite is often used as a chemical absorbent. When contact with highly reactive chemicals or chemicals that can off-gas at temperatures above room temperature (such as Hydrogen peroxide solutions) care should be taken to neutralize or make these materials inert prior to absorption. If possible consult the SDS or supplier of the material being absorbed.

**Hazardous Polymerization:** Will not polymerize.

**Hazardous Decomposition Products:** None known for this product.

**SECTION 11 – TOXICOLOGICAL INFORMATION**

**Ingredient (No data unless listed.)**                      **CAS Number**                      **LD50 and LC50**

**Carcinogenicity:**

Ingredient	IARC Group 1	IARC Group 2A	IARC Group 2B	NTP Known	NTP Suspect	OSHA
Vermiculite	No	No	No	No	No	No
Quartz	Yes	No	No	Yes	No	Yes

**Mutagenicity:** Not applicable.

**Teratogenicity:** Not applicable.

**Reproductive Toxicity:** Not applicable.

**Possible routes of exposure:**

**Inhalation:** May cause irritation.

**Ingestion:** May cause irritation.

**Skin:** May cause irritation.

**Eyes:** May cause irritation.

**SECTION 12 – ECOLOGICAL INFORMATION**

**Environmental Fate:** No data available for product.

**Ecotoxicity:** No data available for product.

**SECTION 13 – DISPOSAL CONSIDERATIONS****Waste Disposal Procedures:**

Consult all regulations (federal, state, provincial, local) or a qualified waste disposal firm when characterizing waste for disposal. According to EPA (40 CFR § 261), waste of this product is not defined as hazardous. Dispose of waste in accordance with all applicable regulations. According to US EPA (40 CFR § 261.3) waste of this product is not defined as hazardous.

**SECTION 14 – TRANSPORTATION INFORMATION**

**Proper Shipping Name:** Not Applicable

**UN/NA Number:** Not Applicable

**Domestic Hazard Class:** Nonhazardous

**Surface Freight Classification:** Vermiculite, other than Crude

**Label/Placard Required:** Not Applicable

**SECTION 15 – REGULATORY INFORMATION****REGULATORY CHEMICAL LISTS:****CERCLA (Comprehensive Response Compensation and Liability Act):**

(None present unless listed below)

<u>Chemical Name</u>	<u>CAS#</u>	<u>Wt %</u>	<u>CERCLA RQ</u>
<b>SARA Title III (Superfund Amendments and Reauthorization Act)</b>			

**SARA Section 312/Tier I & II Hazard Categories**

Health Immediate (acute)	Yes
Health Delayed (chronic)	Yes
Flammable	No
Reactive	No
Pressure	No

**302 Reportable Ingredients (Identification Threshold 1 %.):**

**Chemical Name**                      **CAS#**                      **Wt %**                      **SARA 302 TPQ**

**313 Reportable Ingredients (Chemicals present below reporting threshold are exempt):**

**Chemical Name**                      **CAS#**                      **Wt %**

**National Volatile Organic Compound Emission Standards For Architectural Coatings:**

**Volatile Organic Content:** (gr/L)                      Not Applicable

**WHMIS Classification(s):**                      D2 B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR). This MSDS contains all the information required by the CPR.

**State Regulatory Information:**

**California Proposition 65:**                      WARNING! This product contains substances known to the state of California to cause cancer, birth defects or other reproductive harm.

**Massachusetts Hazardous Substance List (Identification threshold 0.001% (1 ppm)):**

**Chemical Name**                      **CAS#**                      **Wt %**  
Quartz                      014808-60-7                      < 1%

**New Jersey Hazardous Substance List (Identification threshold (0.1%)):**

**Chemical Name**                      **CAS#**                      **Wt**

**Pennsylvania Hazardous Substance List (Identification threshold 0.01%):**

**Chemical Name**                      **CAS#**                      **Wt %**

**CHEMICAL INVENTORY STATUS:**

All chemicals in this product are listed or exempt from listing in the following countries:

US	CANADA		EUROPE	AUSTRALIA	JAPAN	KOREA	PHILIPPINES
TSCA	DSL	NDSL	EINECS/ELINCS	AICS	ENCS	ECL	PICCS
Yes	Yes	No	Yes	Yes	Yes	Yes	Yes

**SECTION 16 – OTHER INFORMATION**

**Non-Hazardous Ingredient Disclosure:**

**Chemical Name**                      **CAS Number**

# Vermiculite

## WARNING



May be harmful if swallowed and enters airways. Causes eye irritation.

Do not eat, drink or smoke when using this product. Wear Protective gloves/protective clothing/eye protection/face protection.

If SWALLOWED: Dilute with large quantities of water. Consult a physician if symptoms develop. Never give anything by mouth to an unconscious person.

If ON SKIN: Wash with soap and water. If discomfort or irritation persists, consult a physician. Remove contaminated clothing and wash before reuse.

If INHALED: Get fresh air. If symptoms persist, consult a physician. If breathing has stopped, give artificial respiration then oxygen if needed.

If IN EYES: Flush eyes with water for at least 15 minutes while holding eyelids open. If discomfort or irritation persist, consult a physician.

Store in a dry place.

Specialty Vermiculite Corp. 26383 Hwy 221N, Enoree, SC 29335 800-342-2017

Vermiculite (GHS)

Prepared by: EH&S Department

Approved by:

Approved Date:

**Disclaimer:**

"The data included herein are presented in accordance with various environment, health and safety regulations. It is the responsibility of a recipient of the data to remain currently informed on chemical hazard information, to design and update its own program and to comply with all national, federal, state and local laws and regulations applicable to safety, occupational health, right-to-know and environmental protection."

*For additional information please contact Sales Technician for your area:*

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Donna Frassrand  
(770)262.0396

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**SPV Corp & SPV Canada Corp Plant & Office Locations:**

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*We hope that the information given here will be helpful. It is based on data and knowledge considered to be true and accurate and is offered for the user's consideration, investigation and verification but we do not warrant the results to be obtained. Please read all statements, recommendations or suggestions in conjunction with our conditions of sale which apply to all goods supplied by us. No statement, recommendation or suggestion is intended for any use which would infringe any patent or copyright.*