Product ID: Vermiculite P.1 Rev::6/17/19



# SAFETY DATA SHEET

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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Product Identifier			[WHMIS Classification]			
Vermiculite			Not App	licable		
Product Use						
Insulating aggregate, Soil cond	itioner, Lov	v density filler, Absorb	pent			
Manufacturer's Name			Supplier's Name			
Therm-O-Rock East, Inc.						
Street Address		Street Address				
1 Pine Street						
City		Province	City			Province
New Eagle		PA				
Postal Code Emergency Te		ephone Postal Code			Emergency Te	elephone
15067 724-258-3670						
Date SDS Prepared S		SDS Prepared By	Prepared By		Phone Number	
6-17-2019		Stanley R. Slawek	(724) 258-3670			

## SECTION 2 — HAZARDS IDENTIFICATION

SECTION 2 — I	IAZANDO IDENTII ICATION				
GHS Classification	Eye Irritant, Category 2	GHS Symbol			
Signal Word	Warning	<b>(!)</b>			
Hazard Statement	Causes eye irritation				
Precautionary Statements	Wear eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue Rinsing. If eye irritation persists: Get medical attention.				
Other Hazards	Avoid breathing dust. Exposure to vermiculite causes no identified short- or long-term health effects, but nuisance dust may cause minor respiratory irritation.				

#### SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients (specific)	%	CAS Number	LD 50 of Ingredient (specify species and route)	LC 50 of Ingredient (specify species)	OSHA PEL (mg/m3)	ACGIH TLV (mg/m3)
Vermiculite (Magnesium, Aluminum Iron Silicate)	>98	1318-00-9	Not Available	Not Available	10	1
Silica	≈1	14808-60-7	Not Available	Not Available	Not Available	.05

### SECTION 4 — FIRST AID MEASURES

Skin Contact

Wash thoroughly with mild soap and water. Seek medical attention if irritation develops. Remove any contaminated clothing and launder thoroughly before reuse.

Eye Contact

Flush with tepid water for at least 20 minutes holding the eyelids wide open. Seek medical attention if irritation develops.

Remove exposed person to fresh air. If breathing is difficult, oxygen may be administered. If breathing has stopped, artificial respiration should be started immediately. Seek medical attention.

Ingestion

Not expected to be an important route of entry into the body. If large amounts of the product are ingested, seek medical attention.

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### SECTION 5 — FIRE FIGHTING MEASURES

Flammable	If yes, under which conditions?				
☐Yes ⊠ No					
Means of Extinction					
Use extinguishing media appropriate for se	•				
Flashpoint (° C) and Method	Upper Flammable Limit (% by volume)	Lower Flammable Limit (% by volume)			
Not Available	Not Available	Not Available			
Auto ignition Temperature (°C)	Explosion Data — Sensitivity to Impact	Explosion Data — Sensitivity to Static Discharge			
Not Available	Not Available	Not Available			
Hazardous Combustion Products					
Not Available					
NEPA					
Health: 1, Flammability: 0, Reactivity: 0, Other: None					

#### SECTION 6 — ACCIDENTAL RELEASE MEASURES

Pick up released product with appropriate implements and return to original container if reusable. If not reusable, place in appropriate containers for disposal. Appropriate personal protective equipment cited in Section 8 should be worn during all clean up operations. Although the product itself is non-hazardous, material collected during clean up operations may be contaminated and should be treated as hazardous unless specific testing, including TCLP, shows the collected material to be non hazardous

#### SECTION 7 — HANDLING AND STORAGE

Handling Procedures and Equipment

Appropriate personal protective equipment cited in Section 8 should be worn during handling. Wet mopping or vacuuming with a unit that contains a HEPA filter is recommended to clean up any dusts that may be generated during handling and processing. See also section 6. Wash hands and face thoroughly before eating, drinking or smoking.

Storage Requirements

Do not store with or near incompatible materials cited in Section 10. Store in tightly closed containers out of contact with the elements.

Good housekeeping and engineering practices should be employed to prevent the generation and accumulation of dusts.

#### SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

	△ ACGIH TLV		Other (specify)				
Specific Engineering Controls (such	as ventilation, enclosed	process)					
Local exhaust ventilatio							
of 10 mg/M <sup>3</sup> for total p		•	•	•			
systems may be found							
ACGIH Committee on In							
should be evaluated by	a professional i	ındustriai nygien	iist. Locai exnau	st ventilation sys	stems snould	be designed by a	
professional engineer.  Personal Protective Equipment							
	Gloves	Respirator	⊠ Eye	Footwear		Other	
If checked, please specify type							
Gloves: Polymeric glove	es are recomme	ended to prevent	t possible irritation	on. PVC or simila	ar constructio	n materials are	
recommended.							
Respirator: If dusts or p							
above, use, as a minim		•		•		•	
an exposure limit of not		•	•				•
respiratory protective ed evaluation of the need f		•	•	•	•		He
			,		, ,		
Eye: Chemical protective goggles are recommended where there is the possibility of eye contact with the product. Safety							
glasses with side shield	ls are recomme	nded for all othe	er operations.				
Clothing: A polymeric co	oated apron or o	other body cover	ring is recomme	nded where ther	e is a possib	ility if regular work	
clothing becoming conta		ne product. All s	oiled or dirty clo	thing and person	nal protective	equipment should	l be
thoroughly cleaned and	reuse.						

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#### SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Odor and Appearance	Odor Threshold (ppm)
Solid	Tan Flakes, Granules, or Powder.	None
Specific Gravity	Vapor Density (air = 1)	Vapor Pressure (mmHg)
(Bulk) 0.66-0.96 g/cc	N/A	N/A
Evaporation Rate	Boiling Point (° C)	Freezing Point (° C)
N/A	Not Determined	N/A
рН	Coefficient of Water/Oil Distribution	[Solubility in Water]
N/A	N/A	<1 %

SECTION	10	STARII	ITY AND	RFACTI\	/ITY
	10 —		111 111/	111 4111	, , , ,

Chemical Stability			If no, under which conditions?		
	⊠Yes	□No			
Incompatibility with O	her Substances		If yes, which ones?		
	⊠Y e s	□ No	Do not store with strong acids, or reducing agents.		
Reactivity and unde	r what conditions?				
Product will undergo an exfoliation reaction with a resultant large increase in volume at approximately 300°.					
Hazardous Decomposition Products					
None that are	None that are known. Product is stable to at least 2400° F.				

# SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure

Eye contact may cause mechanical irritations if exposed to excessive amount of vermiculite. Skin contact may aggravate existing dermatitis. Inhalation from prolonged and continuous exposure may aggravate existing asthmatic or respiratory conditions.

Effects of chronic exposure

Prolonged inhalation of excessive levels vermiculite dust may cause a simple pneumoconiotic condition, not normally associated with a decrement in lung function. In cases of long-term exposure to extremely high levels of dust, complicated pneumoconiosis with lung function may occur.

Irritancy of Product	
N/A	
Skin sensitization	Respiratory sensitization
N/A	N/A
Carcinogenicity-IARC	Carcinogenicity - ACGIH
N/A	N/A
Reproductive toxicity	Teratogenicity
N/A	N/A
Embrotoxicity	Mutagenicity
N/A	N/A
Name of synergistic products/effects	
N/A	

#### SECTION 12 — ECOLOGICAL INFORMATION

Aquatic Toxicit

In vitro ecotoxicity studies conducted on aqueous extracts of the product under the auspices of the South African Department of Water Affairs and Forestry in 1998 indicated that the product most probably is not toxic to the environment. In each of the ecotoxicity tests cited below, 50 grams of the product were extracted with a liter of distilled water. The resulting solution was used to derive the toxicity parameters. The 48 hour  $EC_0$  and  $EC_{50}$  (Daphnia pulex lethality) were determined to be >50 milligrams of extract per liter (mg/l). The 72 hour  $EC_0$  and  $EC_{50}$  (algal, Selenastrum capricornutum, growth inhibition) were determined to be >50 mg/l. The 72 hour  $EC_0$  and  $EC_{50}$  (bacterial, Pseudomonas putida, growth inhibition) were determined to be >50 mg/l.

#### SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal

As prepared, product is considered non-hazardous. It should be disposed of in and EPA approved landfill in accordance with all local, state and federal regulations. If used or waste product is disposed of testing, including TCLP, should be conducted to determine hazard characteristics. Empty containers will contain product residues. Observe proper safety and handling precautions. Do not allow empty containers or packaging to be used for any purpose except to store and ship original product.

#### SECTION 14 — TRANSPORT INFORMATION

Special Shipping Information					
Not currently regulated under Department of Transportation regulations.					
TDG	DOT	PIN			
N/A	N/A	N/A			
IMO	ICAO				
N/A	N/A				

#### SECTION 15 — REGULATORY INFORMATION

WHMIS Classification	OSHA
Not Controlled	Irritant, Lung Hazard, Skin Hazard, Eye Hazard.
SERA	TSC
Acute Hazard.	Not Listed

Status under CA Proposition 65

This product can expose you to chemicals including Quartz which is known to the state of California to cause cancer. California law requires the above warning in the absence of definitive testing to prove the defined risks do not exist. For more information go to: www.P65warnings.ca.gov

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

#### SECTION 16 — OTHER INFORMATION

Notice: This information relates only to the material designated and may not be valid for such material used in combination with any other materials or in any process. All statements, information and data provided are believed to be accurate and reliable, but are presented without any guarantee, representation, warranty or responsibility of any kind, expressed or implied. Any and all representations and/or warranties of merchantability of fitness for a particular purpose are specifically disclaimed. Users should make their own investigations as to the suitability of the information or product for their particular purpose. Nothing in this document is intended as permission, inducement or recommendation to violate any laws or practice any invention covered by existing patents, copyrights or inventions. Therm-O-Rock East, Inc. does not accept liability for any loss or damage that may occur from the use of this information.