

SAFETY DATA SHEET

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SECTION OTIENNO		2001 7 (1 1 2 0 0 1)		<i>,,</i> , , , , , , , , , , , , , , , , , ,	•	
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 P		PA				
Postal Code Emergency Telephone		ephone	Postal Code		Emergency Te	elephone
15067 724-258-3670		670				
Date MSDS Prepared MSDS		MSDS Prepared By	Phone Number		nber	
5-27-2015		Stanley R. Slawek (72		(724) 25	(724) 258-3670	

SECTION 2 — HAZARDS IDENTIFICATION

OLOTION 2 — I	INZANDO IDENTII TOATTON	
GHS Classification	Eye Irritant, Category 2	GHS Symbol
Signal Word	Warning	(!)
Hazard Statement	Causes eye irritation	
Precautionary Statements		utiously with water for several minutes. Remove contact 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

220110110						
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.

Inhalation

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.

SECTION 5 — FIRE FIGHTING MEASURES

Flammable	If yes, under which conditions?				
☐Yes ⊠ No					
Means of Extinction					
Use extinguishing media appropriate for s	urrounding material.				
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					
NFPA					
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

thoroughly cleaned and reuse.

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

Ехроос	are Ellillis	ACGIH TLV		☐ Other (spe	ecity)			
Specific	c Engineering Controls (su	ıch as ventilation, enclo	sed process)					
Loca	al exhaust ventilat	tion should be p	provided to main	tain exposures	s below the limits re	commended t	or nuisance pa	articulates
of 10	mg/M^3 for total	l particulates ar	nd 3 mg/M^3 for	respirable par	ticulates. Design de	etails for local	exhaust ventil	ation
syste	ems may be foun	d in the latest e	dition of "Industr	ial Ventilation:	A manual of Recor	mmended Pra	ctices" publish	ned by the
ACG	IH Committee on	n Industrial Ven	tilation, P.O. Box	16153 Lansir	ng, MI 48910. The n	need for local	exhaust ventila	ation
		•	al industrial hygi	enist. Local ex	haust ventilation sy	stems should	be designed be	эу а
profe	essional engineer	•						
Person	al Protective Equipment		Respirator	⊠ Eye	Footwear		Other	
If check	ked, please specify type							
	es: Polymeric glo mmended.	oves are recom	mended to preve	ent possible irr	itation. PVC or simil	lar construction	n materials ar	·e
Resp	oirator: If dusts or	particulates ar	e generated dur	ing handling o	r processing and ex	posures may	exceed the lin	nits cited
					rator with cartridges			
an e	xposure limit of n	ot less than 0.0	5 mg/M^3. If exp	oosures may e	exceed 10 times the	limit cited in	Section 2, con	sult your
respi	iratory protective	equipment sup	plier or a profess	sional industria	al hygienist for selec	ction of the pro	oper equipmer	nt. The
evalu	uation of the need	d for respiratory	protection shou	ıld be made by	ν a professional indu	ustrial hygieni	st.	
Eve:	Chemical protect	tive googles ar	e recommended	where there is	s the possibility of e	ve contact wit	th the product	Safety
	ses with side shie					yo oornaac wa	ii iio produoti	Caroty
					nmended where the clothing and person			

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

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

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability			If no, under which conditions?	
	⊠Yes	☐ No		
Incompatibility with Oth		_	If yes, which ones?	
	⊠Y e s	□No	Do not store with strong acids, or reducing agents.	
Reactivity and under what conditions?				
Product will undergo an exfoliation reaction with a resultant large increase in volume at approximately 300°.				
Hazardous Decomposition Products				
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 Toxicity

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. The 48 hour EC_0 and EC_{50} (frog, Xenopus laevis, embryo lethality) were determined to be >50 mg/l.

SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposa

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

0_01101111				
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
This product	has been classified in accordance with the hazard criteria of the

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS 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.