

SAFETY DATA SHEET — 16 Sections

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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Product Identifier	[WHMIS Classification]					
Vermiculite	Not Applicable					
Product Use						
Insulating aggregate, Soil condi	tioner, Lov	v density filler, Absorb	ent, Construction Aggre	egate, ect	i.	
Manufacturer's Name			Supplier's Name			
P.V.P. Industries Inc.						
Street Address			Street Address			
P.O. Box 129, 9819 Penniman Road						
City		Province	City			Province
North Bloomfield		OH				
Postal Code	Emergency Tel	ephone	Postal Code		Emergency Te	elephone
44450 440-685-4701						
Date MSDS Prepared MSDS Prepared By			Phone Num	nber		
4/08/2017		Michael Dunlavey		440-685	5-4701	
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SECTION 2 — HAZARDS IDENTIFICATION

Route of Entry	Skin Contact	Skin Absorption		Inhalation	☐ Ingestion
Emergency Overvie	W				
respiratory tr area. Pick up in appropriat operations m	act. Wear appropo released product e containers for di ay be contaminat	riate personal pro t with appropriate sposal. Although ed and should be	tective equipments and the product itse treated as haz	ent. Keep individ nd return to origin elf is non-hazard ardous unless s	ion of eyes, skin, mucous membranes and duals not involved in the cleanup out of the hal container if reusable. If not reusable, place dous, material collected during clean up pecific testing, including TCLP, shows the red to present an environmental hazard.
WHMIS Symbols Not Regulate	ed.				

Potential Health Effects

No specific long term health effects have been identified for asbestos and silica free vermiculite. As is true of all nuisance or inert particulates, inhalation of high concentrations of vermiculite dusts and/or particulates over prolonged periods of time may cause a benign pneumoconiosis.

Prolonged exposure to respirable crystalline silica (quartz) may cause a progressive, disabling lung disorder (silicosis). Symptoms may include, cough, shortness of breath, wheezing, decrease in pulmonary function, and recurring non-specific pulmonary illness. The onset of symptoms, except in cases of massive exposures, is usually gradual over a period of several years and is accompanied by changes in the x-ray picture of lungs. Crystalline silica has been listed a potential human carcinogen (2A) by the International Agency for Research on Cancer (IARC) and as a substance that can be reasonably anticipated to cause cancer in humans by the National Toxicology program.

Pre-existing lung and skin conditions may possibly be aggravated by exposure to the components of the product.

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

SECTION 4 — FIRST AID MEAS	UNES					
Skin Contact 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.						
	vreathing is difficult, oxygen may be a	dministered. If breathing has stopped, artificial				
respiration should be started immediately		ummistered. If breathing has stopped, artificial				
Ingestion						
Not expected to be an important route of attention.	entry into the body. If large amounts	of the product are ingested, seek medical				
SECTION 5 — FIRE FIGHTING						
Flammable Dyes No	If yes, under which conditions?					
Means of Extinction						
Use extinguishing media appropriate for s						
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, C	Other: None					
Treatur. 1, Frammability. 0, Reactivity. 0, e	Aller. None					
SECTION 6 — ACCIDENTAL RE	ELEASE MEASURES					
appropriate containers for disposal. Application clean up operations. Although the productions are supported by the production of the prod	ropriate personal protective equipment ct itself is non-hazardous, material co	ontainer if reusable. If not reusable, place in not cited in Section 8 should be worn during all ollected during clean up operations may be luding TCLP, shows the collected material to				
SECTION 7 — HANDLING AND	STORAGE					
Handling Procedures and Equipment						
	to clean up any dusts that may be genera	andling. Wet mopping or vacuuming with a unit ated during handling and processing. See also				
Change Day investe						
Storage Requirements Do not store with or near incompatible mater Good housekeeping and engineering practic		osed containers out of contact with the elements. eneration and accumulation of dusts.				

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits ACGIH TLV	OSHA PEL	Other (specify)			
Specific Engineering Controls (such as ventilation, enclosed					
Local exhaust ventilation should be pro of 10 mg/M ³ for total particulates and systems may be found in the latest edit ACGIH Committee on Industrial Ventila should be evaluated by a professional i professional engineer.	3 mg/M^3 for restion of "Industrial ation, P.O. Box 16	pirable particulat Ventilation: A ma 3153 Lansing, MI	es. Design de Inual of Reco 48910. The r	etails for local ommended Pra need for local o	exhaust ventilation ctices" published by the exhaust ventilation
Personal Protective Equipment Gloves	Respirator	⊠ _{Eye}	Footwear	⊠ _{Clothing}	Other
If checked, please specify type					
Gloves: Polymeric gloves are recomme recommended.	ended to prevent	possible irritation	. PVC or simi	ilar constructio	on materials are
Respirator: If dusts or particulates are gabove, use, as a minimum, a NIOSH apan exposure limit of not less than 0.05 respiratory protective equipment supplievaluation of the need for respiratory protective.	pproved1/2 face pmg/M^3. If exposer or a profession	piece respirator wures may exceed nal industrial hygi	vith cartridges I 10 times the enist for sele	s approved for limit cited in S ction of the pro	particulate matter with Section 2, consult your oper equipment. The
Eye: Chemical protective goggles are reglasses with side shields are recomme			ossibility of e	ye contact with	h the product. Safety
Clothing: A polymeric coated apron or other body covering is recommended where there is a possibility if regular work clothing becoming contaminated with the product. All soiled or dirty clothing and personal protective equipment should be thoroughly cleaned and reuse.					
SECTION 9 — PHYSICAL AND	CHEMICAL	PROPERTIE			
Physical State	Odor and Appearance			Odor Threshold (ppm)
Solid		akes, Granules, c		None	
Specific Gravity	Vapor Density (air = 1)		Vapor Pressure (mml	Hg)
(Bulk) 4-9 lbs./cu.ft.	N/A			N/A	
Evaporation Rate	Boiling Point (° C)	1		Freezing Point (° C)	
N/A	Not Determine			N/A	
pH	Coefficient of Water/C	Dil Distribution		[Solubility in Water]	
N/A	N/A			<1 %	
SECTION 10 — STABILITY AND REACTIVITY					
Chemical Stability	If no, under which cor				
Incompatibility with Other Substances Y e s No	If yes, which ones? Do not store wit	h strong acids, or r	educing agent	S.	
Reactivity and under what conditions?					
Product will undergo an exfoliation reaction with a resultant large increase in volume at approximately 300°. Hazardous Decomposition Products					
Hazardous Decomposition Products	ion with a resulta	int large increase	in volume at	approximately	/ 300°.

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

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