

PVP. Ind. Inc.

MATERIAL SAFETY DATA SHEET---VERMICULITE

I. PRODUCT IDENTIFICATION

TRADE NAME (as labeled) **PVP.IND. Expanded Vermiculite**

MANUFACTURERS NAME **PVP. IND. INC.**

Address (complete mailing address): 9819 Penniman rd.
North Bloomfield, Ohio 44450

Phone number: 440-685-4701
440-685-4709 FX.

Date Prepared or Revised: 01/01/09

II. HAZARDOUS INGREDIENTS

Chemical Names	CAS Numbers	Exposure Limits in Air		
		ACGIH TLV (total)	ACGIH TLV (respirable)	OTHER)
Vermiculite	1318-00-9	10 mg/M ³	3 mg/M ³	30 mppcf

Vermiculite is the mineralogical name given to hydrated laminar manganese-aluminum-iron silicates which resemble mica in appearance. When subjected to heat, crude vermiculite has the unusual property of exfoliating or expanded into worm-like particles (the name vermiculite is derived from the Latin 'vermiculare', meaning to breed worms.)

Vermiculite is considered a nuisance dust (also called "Particulates Not Otherwise Classified (PNOC) by ACGIH).

Alpha-Cristobalite & Tridymite: Less than 0.1%

Alpha Quartz: 0.01 to 0.05%

III. PHYSICAL PROPERTIES

Vapor Density (air = 1)	N/A	Melting point or range. C°	1350+ (Collapse and coalescence of the individual flakes begin at this temperature.)
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Specific Gravity	2.5	Boiling point or range. F°	N/A
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Solubility in Water	<1%	Evaporation rate (butyl acetate = 1)	N/A
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Vapor Pressure, mmHg at 20°C	N/A
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Appearance and odor: tan/brown with no odor

HOW TO DETECT THIS SUBSTANCE (warning properties of substance as a gas, vapor, dust or mist)

Visual only (dust), No gas, vapors, or mist emitted.

-----**IV. FIRE AND EXPLOSION**-----

Flash Point, F° (give method)	Vermiculite is a fully oxidized non-flammable mineral. It is noncombustible and non-flammable.
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Auto ignition temperature, F°	N/A
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Flammable limits in air, Volume%:	N/A	lower(LEL)	N/A	upper(UEL)	N/A
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Fire extinguishing materials:	N/A
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_____water spray _____carbon dioxide _____other:

_____foam

_____dry chemical

Special fire fighting procedures:

N/A

Unusual fire and explosion hazards:

N/A

-----**V. HEALTH HAZARD INFORMATION**-----

SYMPTOMS OF OVEREXPOSURE for each potential route of exposure

Inhaled: Coughing

Contact with skin or eyes: Possible eye irritation from dust particles; wear eye protection

Absorbed through skin: N/A

Swallowed: N/A

HEALTH EFFECTS OR RISKS FROM EXPOSURE.

Acute: None

Chronic: Excessive inhalation over long period may cause harmful irritation; use mask suitable for nuisance dust.

Target Organ: None

FIRST AID: EMERGENCY PROCEDURES

Eye Contact: Attempt to wash out with clear water; if unable have particle removed by doctor

Skin Contact: None

Inhaled: Remove affected individual from dusty area to area with clean air

Swallowed: None

Other Clothing and equipment

Not required.

Work practices, hygienic practices

Use good housekeeping to avoid transient dust.

Other handling and storage requirements

Use good housekeeping to avoid transient dust.

Protective measures during maintenance of contaminated equipment

None special other than respirators and goggles.

As of the date of preparation of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state laws. However, no warranty or representation with respect to such information is intended or given; and it is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.