

# MATERIAL SAFETY DATA SHEET---VERMICULITE

## I. PRODUCT IDENTIFICATION

**TRADE NAME (as labeled)** Schundler Company Vermiculite (Expanded)  
**MANUFACTURERS NAME** THE SCHUNDLER COMPANY  
**www.schundler.com**  
**Address (complete mailing address):** 150 Whitman Avenue  
 Edison, N.J. 08817  
**Phone number:** (732) 287-2244  
 info@schundler.com  
**Date Prepared or Revised:** February 25, 2004

## 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 <sup>3</sup>	3 mg/M <sup>3</sup>	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

<b>Vapor Density (air = 1)</b>	N/A	<b>Melting point or range. C°</b>	1350+ (Collapse and coalescence of the individual flakes begin at this temperature.)
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<b>Specific Gravity</b>	2.5	<b>Boiling point or range. F°</b>	N/A
<b>Solubility in Water</b>	<1%	<b>Evaporation rate (butyl acetate = 1)</b>	N/A
<b>Vapor Pressure, mmHg at 20° C</b>	N/A		
<b>Appearance and odor:</b>	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**-----

<b>Flash Point, F° (give method)</b>	Vermiculite is a fully oxidized non-flammable mineral. It is noncombustible and non-flammable.			
<b>Auto ignition temperature, F°</b>	N/A			
<b>Flammable limits in air, Volume%:</b>	N/A	<b>lower (LEL)</b>	N/A	<b>upper(UEL)</b> N/A
<b>Fire extinguishing materials:</b>	N/A			
<input type="checkbox"/> water spray	<input type="checkbox"/> carbon dioxide	<input type="checkbox"/> other:		
<input type="checkbox"/> foam	<input type="checkbox"/> dry chemical			
<b>Special fire fighting procedures:</b>	N/A			
<b>Unusual fire and explosion hazards:</b>	N/A			

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

**SYMPTOMS OF OVEREXPOSURE** for each potential route of exposure

<b>Inhaled:</b>	Coughing
<b>Contact with skin or eyes:</b>	Possible eye irritation from dust particles; wear eye protection
<b>Absorbed through skin:</b>	N/A
<b>Swallowed:</b>	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

**SUSPECTED CANCER AGENT?**

**NO:** This product's ingredients are not found in the lists below.

**YES:** \_\_\_\_\_ Federal OSHA \_\_\_\_\_ NTP \_\_\_\_\_ IARC

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE**

Any Respiratory illnesses which a nuisance dust may aggravate

**-----VI. REACTIVITY DATA-----**

**Stability:** \_\_\_\_\_  **Stable** \_\_\_\_\_ **Unstable**

**Incompatibility (Materials to avoid):** None

**Hazardous decomposition products (including combustion products):** None

**Hazardous Polymerization:** \_\_\_\_\_ **May Occur** \_\_\_\_\_  **Will not occur**

**Conditions to Avoid:** None

**-----VII. SPILL, LEAK, AND DISPOSAL PROCEDURES-----****Spill response procedures (include employee protection measures):**

Vacuum clean or sweep material; Use respirators suitable for nuisance dust and eye protection.

**Preparing wastes for disposal (container types, neutralization, etc.):**

Dispose in bulk or containers according to local dump requirements. No special treatment required.

**Note: Dispose of all wastes in accordance with federal, state, and local regulations.**

-----**VIII. SPECIAL HANDLING INFORMATION**-----

**Ventilation and engineering controls:**

Maintain dust level below TLV.

**Respiratory protection (type)**

Masks suitable for nuisance dust.

**Eye Protection (type)**

Protective goggles.

**Gloves (specify material)**

Not required.

**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.

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