

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 ³	3 mg/M ³	30 mppcf

Vermiculite is the mineralogical name given to hydrated laminar mangesium-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.)
Specific Gravity	2.5	Boiling point or range. F°	N/A
Solubility in Water	<1%	Evaporation rate (butyl acetate = 1)	N/A
Vapor Pressure, mmHg at 20°C	N/A		
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.			
Auto ignition temperature, F°	N/A			
Flammable limits in air, Volume%:	N/A	lower(LEL)	N/A	upper(UEL) N/A
Fire extinguishing materials:	N/A			
_____ 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

SUSPECTED CANCER AGENT?

X **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: X Stable Unstable

Incompatibility (Materials to avoid): None

Hazardous decomposition products (including combustion products): None

Hazardous Polymerization: May Occur X 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.