

MATERIAL SAFETY DATA SHEET---Vermiculite

I. PRODUCT IDENTIFICATION

TRADE NAME (as labeled) Ambient Minerals Vermiculite
 MANUFACTURERS NAME Ambient Minerals, Inc.
www.ambientminerals.com

Address (complete mailing address): 705 Bird Street
 Benton, Arkansas 72015
 Phone number: (501) 778-4001

Date Prepared or Revised: September 14, 2011

II. HAZARDOUS INGREDIENTS

Chemical Name	CAS Numbers	%	OSHA PEL		ACGIH TLV	
			(Total)	(Respirable)	Total	Respirable
Vermiculite	1318-00-9	100	15 mg/M ³	5 mg/M ³	10 mg/m ³	3mg/m ³
Quartz	14808-60-7	<1		0.1 mg/m ³ *		0.05 mg/m ³ **

Vermiculite is hydrated magnesium-aluminum-iron silicate mineral.
 Vermiculite is considered a nuisance dust (also called "Particulates Not Otherwise Classified (PNOC) by ACGIH).

III. PHYSICAL PROPERTIES

Vapor Density (air = 1) N/A Melting point or range. F° 1000+
 Specific Gravity N/A Boiling point or range. F° 1000c
 Solubility in Water N/A Evaporation rate (butyl acetate = 1) N/A
 Vapor Pressure, mmHg at 20°C N/A
 Appearance and odor: Flakes, resembles mica, 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° N/A 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

MSDS Cont:

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.