



Safety Data Sheet

Section 1: Identification

Product Name: Espoma Organic Vermiculite

Product form: Vermiculite

Use of product: Soil Amendment

Distributed by:

The Espoma Company
6 Espoma Road
Millville, NJ 08332

Emergency phone number: 800-634-0603

Section 2: Hazard Information

Carcinogenicity: Long term exposure (10-15 years) to concentrated quartz dust; present in common soil mix ingredients such as Perlite, gypsum and sand, may cause significant risk of lung damage (silicosis). However, product water content renders significant exposure unlikely under typical use conditions.

Signs and Symptoms of Exposure: Inhalation over long periods of high amounts of any nuisance dust may overload lung clearance mechanism, irritate mucous membrane and make lungs more vulnerable to respiratory disease.

Section 3: Composition / Information on Ingredients:

CAS #	Name	Concentration
1318-00-9	Vermiculite	100 %

Comment: Vermiculite in this product is supplied by Palabora Mining Co., which uses a rigorous testing and audit process for detection of asbestos. This process conforms to regulations governing health, safety and the environment and is ISO certified. Palabora policy on fiber management is based on the internationally accepted protocol for the sampling and identification of asbestos fibers in bulk materials (Ref: HSG248ex_MDHS77 issued by the Health and Safety Executive of the United Kingdom, HSMO) as outlined in document 'Palabora Vermiculite The way we work...' by Palabora Mining Co. This document is available upon request.



Section 4: First Aid Measures

Exposure	Recommendation
Inhalation	Provide fresh air
Skin Contact	Keep open wounds covered and clean as suggested by any good hygiene program.
Eye Contact	Rinse eyes with water.

Exposure limits of Dust

OSHA PEL		ACGIH TLV	
Respirable Dust	5 mg/m ³	Respirable Particules	3 mg/m ³
Total Dust	15 mg/m ³	Inhalable Particules	10 mg/m ³

*No unusual procedures required.

Section 5: Fire-fighting Measures:

Extinguishing media: Use fire extinguishing materials appropriate for surrounding fire.

Unusual Fire & Explosion Hazards: None

Advice for Firefighters: If possible prevent runoff water from entering storm drains or bodies of water.

Flash Point (Method Used): Not applicable

Flammable Limits: Not applicable

Unusual Fire and Explosion Hazard: None

Special Fire-Fighting Procedures: None

Section 6: Accidental Release Measures:

Steps to Be Taken in Case Material is Released or Spilled: Use methods to clean spill which avoid creating airborne dust. Avoid breathing dust by using adequate ventilation and/or NIOSH or MSHA approved respirator for nuisance dust of this type.

If uncontaminated: Sweep up or collect, and reuse as product. If contaminated with other materials, collect in suitable containers.

Waste Disposal Method: Contaminated material can generally be disposed of in an approved disposal facility, in accordance with applicable federal, state, and local regulations.

Environmental Precautions: Prevent from entering storm drains or bodies of water.

Section 7: Handling & Storage:

Handling: Handle in accordance with good industrial hygiene. Wash hands after handling. Avoid creating excessive dust during handling. Avoid breathing dust by using adequate ventilation and/or NIOSH or MSHA approved respirator for nuisance dust of this type.

Storage: Store in a cool dry place out of reach of children and pets.

Incompatible Materials: None known



Section 8: Exposure Controls / Personal Protection:

Respiratory Protection (Specify Type):	If dust is created use NIOSH or MSHA approved respirator for nuisance dust of this type.
Ventilation:	Local exhaust advisable if excessive dust is created.
Protective Gloves:	Not normally necessary but suggested in cases of open wounds that are not appropriately protected.
Eye Protection:	Protective eyewear should be worn where dust levels are high enough to cause irritation.
Protective Clothing or Equipment:	Normal work clothing.
Work/Hygienic Practices:	NIOSH or MSHA approved respirator, eye protection and ventilation under conditions where excessive dust is created. Open wounds should be kept clean and suitably protected.

Section 9: Physical & Chemical Properties:

Appearance		Boiling Point	
Physical State:	Solid (granular)	pH	ND
Boiling Point	Not applicable	Specific Gravity (H₂O = 1)	ND
Vapor Pressure (mm Hg)	Not applicable	Melting Point	Not applicable
Vapor Density (AIR = 1)	Not applicable	Evaporation Rate (Butyl Acetate = 1)	Not applicable
Solubility in Water	Not applicable	Appearance and Odor	Gold to Gray in color, fine granules

Section 10: Stability & Reactivity:

Stability: Stable

Possibility of hazardous reactions: None

Conditions to avoid: None Known

Incompatible materials: None Known

Hazardous Decomposition Products: None



Hazardous Polymerization: Will not occur

Section 11: Toxicological Information:

Acute and Chronic Toxicity:

Eye effects: Contact with eyes may cause irritation. Flush with plenty of water. **DO NOT RUB EYES.**

Skin effects: May cause skin irritation in susceptible persons

Chronic toxicity

Carcinogenic effects:

NTP	IARC	OSHA
None	None	None

Ingestion: Health injuries are not known or expected under normal use

Inhalation: Health injuries are not known or expected under normal use

Section 12: Ecological Information:

No Information Available

Section 13: Disposal Considerations:

No Information Available

Section 13: Transportation Information:

No Information Available

Section 15: Regulatory Information:

No Information Available

Section 16: Other Information:

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