

SAFETY DATA SHEET

SECTION 1 - Chemical Product and Company Identification

Product Identifier: Vermiculite, All Grades – Uline Grades: Grade 4, Grade 3, Grade 2, Grade 1

Product Class: Hydrated Lamellar Magnesium Aluminum Iron Silicate

Product Use: Insulation, Construction, Industrial, and Horticultural Applications

Distributor:

Uline Shipping Supplies

12575 Uline Drive

Pleasant Prairie, WI 53158

Telephone Number: 1-800-295-5510

Fax Number: 262-612-4266

Preparation date of SDS: June 7, 2015

SECTION 2 – Hazards Identification

2.1 Classification of the substance or mixture

Eye Irritant – Category 2 B

Skin Irritation – Category 3

Respiratory Irritant

2.2 Product Identifier:

Vermiculite (Exfoliated) - CAS# 1318-00-9

Signal Word: **WARNING**

Symbol(s):



Hazard statement(s): May cause mild skin irritation. May cause eye irritation.
Respiratory Irritant.

Precautionary statement(s):

Prevention

Treat as a nuisance dust. Avoid creating dust. Use adequate ventilation.

NIOSH approved respirator or dust mask recommended. NIOSH approved dust goggles recommended.

Response

Flush eyes with clean water. Wash skin with mild soap and water. Remove to fresh air.

Supplemental Instructions, based on route of entry:

Route of entry:

Skin contact: Repeated or prolonged contact may cause drying. Natural moisture can be easily restored with skin lotion.

Skin absorption: N/A

Eye contact: May irritate or injure eyes, mechanically

Inhalation: Upper Respiratory Mechanical Irritant: May aggravate pre-existing respiratory conditions. Long-term inhalation of respirable crystalline silica can cause disabling lung disease (silicosis).

Ingestion: LD₅₀ not established

Sensitization: Non-sensitizing

Emergency Overview: Fine particle size products represent inhalation hazards that can readily be controlled with appropriate dust protection equipment. Avoid processes that generate unnecessary dust.

WHMIS Symbols: None

Potential Health Effects: See above regarding long term exposure: skin drying, silicosis and eye irritation

2.3 Other hazards not contributing to the classification: N/A

SECTION 3 – Composition/Information on Ingredients

Product Description/Components: Exfoliated vermiculite powder or granules, CAS# 1318-00-9

<u>Hazardous</u> <u>Ingredients</u>	<u>CAS#</u>	<u>%</u>	<u>ACGIH</u> <u>TLV, mg/cu.m.</u>	<u>NIOSH, mg/cu.m</u>	<u>OSHA PEL, mg/cu.m</u>
Quartz	14808-60-7	<0.1	0.025 (Respirable)	0.05 (Respirable)	0.1 (Respirable)
Total Quartz:	LD ₅₀ : >20,000 mg/kg, oral, rat		LC ₅₀ : Not Available		IDLH: 50 mg/cu.m

SECTION 4 – First Aid Measures

Skin Contact: Wash off with soap and water. Skin lotion will quickly replace oils lost due to drying effect of vermiculite.

Eye Contact: Flush eyes with plenty of water.

Inhalation: Remove to fresh air. Seek medical attention if victim is not breathing or uncomfortable.

Ingestion: Do not induce vomiting. Rinse mouth. Seek medical attention if victim is not breathing or uncomfortable.

SECTION 5 - Fire Fighting Measures

Flammable: No. Packaging might burn.

Means of Extinction: Use extinguishing media appropriate for surrounding material.

Explosion Data - Sensitivity to Impact: N/A

Explosion Data - Sensitivity to Static Discharge: Not combustible unless mixed with combustible material

Hazardous Combustion Products: N/A

NFPA: Health: 0, Flammability: 0, Reactivity: 0, Other: None

SECTION 6 - Accidental Release Measures

Leak and Spill Procedures: Normal clean-up procedures. Care should be taken to avoid causing dust to become airborne. Vacuum cleaning systems are recommended. Wetting spilled material with water may control dust and make clean up easier.

SECTION 7 - Handling and Storage

Handling Procedures and Equipment: Avoid creating unnecessary dust

Storage Requirements: Store with other dusty materials, away from products that could be affected by dust.

SECTION 8 - Exposure Control/Personal Protection

Exposure Limits

ACGIH TLV: 10 mg/m³ total dust

3 mg/m³ respirable dust

OSHA PEL: 15 mg/m³ total dust

5 mg/m³ respirable dust

Engineering Controls

General: Good housekeeping rules apply

Local Exhaust from work stations using this material

Recommended Personal Protective Equipment:

- Plastic or Rubber Gloves if skin irritation occurs
- Respirator – NIOSH/OSHA/MSHA approved dust respirator adequate for contaminant concentrations encountered.
- Eye protection recommended
- Disposable footwear for frequent handling of this material
- Coveralls for frequent handling of this material

SECTION 9 – Physical and Chemical Properties

Physical State: Solid powder or granules

Odor and Appearance: Tan powder or granules with no odor

Odor Threshold (ppm): N/A

Specific Gravity: 2.5 to 2.7

Vapor Density (air=1): N/A

Vapor Pressure (mmHg): N/A

Evaporation Rate: N/A

Boiling Point (°C): N/A

Freezing Point (°C): 1350 - 1570

Flashpoint (°C) and Method (open cup or closed cup): N/A

Upper Flammable Limit (% by volume): N/A

Lower Flammable Limit (% by volume): N/A

Autoignition Temperature (°C): N/A

pH: 8 – 9, as 4% slurry in distilled water

Coefficient of Water/Oil Distribution: N/A

Solubility in Water: Negligible

Visual Identification Only

SECTION 10 - Stability and Reactivity

Chemically Stable?: Yes

Incompatibility with other substances?

Yes: Hydrofluoric acid (HF)

Reactivity, and under what conditions?: Toxic silicon tetrafluoride gas will result with contact with hydrofluoric acid.

Hazardous Decomposition Products: See above. Hazardous polymerization will not occur.

SECTION 11 - Toxicological Information

LD₅₀/LC₅₀: Not established

Effects of Acute Exposure: Drying in case of skin contact or inhalation, a mechanical eye irritant.

Effects of Chronic Exposure:

Irritancy of Product: Mechanical irritation only

Respiratory Sensitization: None. Mechanical Upper Respiratory Irritant: May aggravate pre-existing respiratory conditions. Long-term inhalation of respirable crystalline silica can cause disabling lung disease (silicosis)

Carcinogenicity: These products contain less than 0.1% crystalline silica, and few particles of respirable size, hence present very low risk.

IARC: Not reviewed

ACGIH: PNOS (Particulates Not Otherwise Specified), Not carcinogenic

Reproductive Toxicity: Not available

Teratogenicity: Not established

Embryotoxicity: Not available

Mutagenicity: Ames: Negative results reported (*Salmonella typhimurium*, Metabolic

Activation: with/without)

SECTION 12 – Ecological Information

Aquatic Toxicity: Low hazard for usual industrial or commercial handling. Approved for use in soils

SECTION 13 – Disposal Considerations

Waste Disposal: Dispose of this product in accordance with all applicable local, state and Federal regulations.

SECTION 14 – Transport Information

Special Shipping Information

DOT: No special requirements

IMO: Non-hazardous

ICAO: Non-hazardous

SECTION 15 – Regulatory Information

WHMIS CLASSIFICATION: None. Mechanical irritation does not qualify a material as an irritant.

OSHA: Label as required by Hazard Communication Standard 29 CFR 1910.1200 (f) and applicable state and local laws and regulations

TSCA: Included as a naturally occurring material

SECTION 16 – Other Information

HMIS Ratings: Health: *(See SDS), Flammability: 0, Reactivity: 0, Personal Protection: E

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

Information provided in this document is believed to be accurate as of June 7, 2015 and may be subject to change without notice. The information 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. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.