

MATERIAL SAFETY DATA SHEET

SECTION 1 - Chemical Product and Company Identification

Product Identifier: Vermiculite, All Grades: Masonry Insulation, Attic Insulation, Concrete Grade, Pool Base, D3, D4, A2, A3, A4
Product Class: Hydrated Laminar Magnesium Aluminum Iron Silicate
Product Use: Insulation, Construction, Industrial, and Horticultural Applications

Uline Shipping Supplies

12575 Uline Drive
Pleasant Prairie, WI 53158
Telephone Number: 262-612-4200

Preparation date of MSDS: October 17, 2011

SECTION 2 – 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)

LD₅₀: Not Available

LC₅₀: Not Available

SECTION 3 – Hazards Identification

Route of entry:

Skin contact: Repeated or prolonged contact may cause irritation

Skin absorption: N/A

Eye contact: May irritate or injure eyes, mechanically

Inhalation: Upper Respiratory Irritant: May aggravate pre-existing respiratory conditions.

Long-term inhalation of respirable crystalline silica can cause disabling lung disease (silicosis).

Ingestion: LD₅₀ not established, presumed over 2000 mg/kg

Emergency Overview: The 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:



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

SECTION 4 – First Aid Measures

Skin Contact: Wash off with soap and water

Eye Contact: Flush eyes with generous amounts of water for at least 5 minutes. Inhalation:

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

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

SECTION 5 - Fire Fighting Measures

Flammable: No

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

Flashpoint (°C) and Method (oc or cc): N/A

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

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

Autoignition Temperature (°C): N/A

Explosion Data - Sensitivity to Impact: N/A

Explosion Data - Sensitivity to Static Discharge: High airborne concentrations of dusts are susceptible to explosions.

Hazardous Combustion Products: N/A

NFPA: Health: *(Refer to MSDS), Flammability: 0, Reactivity: 0, Other: None

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

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 COMMENTS

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 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): N/A

pH: 6.5 – 7.5, as 10% slurry in distilled water

Coefficient of Water/Oil Distribution: N/A

Solubility in Water: Negligible

Visual Identification Recommended

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

SECTION 11 - Toxicological Information

Effects of Acute Exposure: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), or in case of inhalation (irritant).

Effects of Chronic Exposure:

Irritancy of Product: Potential IRRITANT for Skin Sensitization,

Respiratory Sensitization: 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: D2B (Toxic)

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

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

Information provided in this document is believed to be accurate as of October 17, 2011 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.