

FLINN SCIENTIFIC, INC.

Material Safety Data Sheet (MSDS)

MSDS #: 844.50

Revision Date: March 14, 2012

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Vermiculite

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Vermiculite

Synonym: Magnesium-aluminosilicate mineral; exfoliated vermiculite

CAS#: None established

SECTION 3 — HAZARDS IDENTIFICATION

Tan flakes. Odorless.

Dust may be irritating to eyes and lungs. May cause risk of lung disease if inhaled.

Vermiculite formulations may contain 1-10% quartz which, in finely divided form, is a known human carcinogen (IARC-1). Avoid creating or inhaling dust.

Vermiculite is not from the Libby Montana mine which closed in 1990 and therefore does not contain asbestos.

FLINN AT-A-GLANCE

Health-1

Flammability-0

Reactivity-0

Exposure-0

Storage-0

0 is low hazard, 3 is high hazard

SECTION 4 — FIRST AID MEASURES

Call a physician and seek medical attention for further treatment, observation, and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped, give artificial respiration immediately.

Eye or External: Immediately flush with fresh water for at least 15 minutes.

Internal: Rinse mouth. Give large quantities of water for dilution. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable liquid.

NFPA CODE

H-1

F-0

R-0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from area and ventilate area. Dampen spill with water and wipe up using damp clothes. Deposit spill and clothes in sealed bag or container. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic Miscellaneous or with spill control materials.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes and lungs. Wear chemical splash goggles.

Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).

Exposure guidelines: PEL 0.8 mg/m³ (as 100% amorphous silica) (OSHA)

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SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Tan, odorless flakes

Formula: $(Mg,Fe,Al)_3(Al,Si)_4O_{10}(OH)_2 \cdot 4H_2O$

Mohs hardness scale: 1.5 - 2.2

Refractive index: 1.525 - 1.581

Specific gravity: 2.2 - 2.6

Streak: greenish-white

SECTION 10 — STABILITY AND REACTIVITY

If you are absorbing a spill, this material will not neutralize the spill. It only absorbs the spill. All hazards remain.

Shelf life: Indefinite, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: N.A.

Chronic effects: May contain quartz, a known carcinogen.

Target organs: N.A.

ORL-RAT LD₅₀: N.A.IHL-RAT LC₅₀: N.A.SKN-RBT LD₅₀: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply, before proceeding.

Flinn Suggested Disposal Method #26b is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated

Hazard class: N/A

UN number: N/A

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

TSCA-listed.

SECTION 16 — OTHER INFORMATION

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**Consult your copy of the *Flinn Science Catalog/Reference Manual*
for additional information about laboratory chemicals.**