

Material Safety Data Sheet

U.S. Department of Labor



May be used to comply with
 OSHA's Hazard Communication Standard,
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements.

Occupational Safety and Health
 Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072

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| IDENTITY (As Used on Label and List) Mica | Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that. |
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Section I

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| Manufacturer's Name Carolina Vermiculite Company | Emergency Telephone Number (864) 476-7061 / (703) 276-8900 |
| Address (Number, Street, City, State, and ZIP Code) P.O. Box 98 Woodruff, SC 29338 | Telephone Number for Information (864) 476-7061 Date Prepared June 16, 2003 Signature of Preparer (optional) |

Section II - Hazard Ingredients/Identity Information

| Hazardous Components (Specific Chemical Identity; Common Name(s)) | OSHA PEL | ACGIH TLV | Other Limits Recommended | % (optional) |
|---|----------|----------------------------------|--------------------------------------|--------------|
| Mica (Hydro-Biotite Mica) | | 15mg/M ³ * (Total) | 5mg/M ³ * (Respirable) | |
| Magnesium-Aluminosilicate Mineral | | 50 mppcf* (Total) | 15 mppcf* (Respirable) | |
| CAS No. 1318-00-9 (Mg, Ca, K).(Al,Fe,Mg).(Si,Al) ₄ O ₁₀ .H ₂ O | | | | |
| Note: Mica is considered a nuisance dust by ACGIH and OSHA and is also known as PNOC (particulates not otherwise classified under ACGIH). | | | | |
| Note: Testing using EPA method EPA/600/R-93/116 and United Kingdom test method MDHS-77 shows no asbestos detected. | | | | |
| Note: mppcf is millions of particles per cubic foot based on impinger samples counted by light-field techniques. | | | | |
| *OSHA's Regulation 29 CFR 1910.1000 Table Z-3 (6/30/93). | | | | |

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Section III - Physical/Chemical Characteristics

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| Boiling Point | NA | Specific Gravity (H ₂ O = 1) (45 to 65 lbm/ft ³ bulk) | 2.2 to 2.8 |
| Vapor Pressure (mm Hg.) | NA | Melting Point | Over 2,200°F |
| Vapor Density (AIR = 1) | NA | Evaporation Rate (Butyl Acetate = 1) | NA |
| Solubility in Water Negligible | | | |
| Appearance and Odor Free flowing golden brown flat mica flakes. | | | |

Section IV - Fire and Explosion Hazard Data

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|--|------------------------|-----|-----|
| Flash Point (Method Used) None | Flammable Limits NA | LEL | UEL |
| Extinguishing Media NA | | | |
| Special Fire Fighting Procedures NA | | | |
| Unusual Fire and Explosion Hazards None | | | |

(Reproduce locally)

OSHA 174, Sept. 1985

Section V - Reactivity Data

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|---|----------------|---|----------------------------|
| Stability | Unstable | | Conditions to Avoid |
| | Stable | X | See incompatibility below. |
| Incompatibility (Materials to Avoid) Hydrogen Fluoride/Chlorine Trifluorine/Fluorine and other Halogenated Oxidizers. | | | |
| Hazardous Decomposition or Byproducts None | | | |
| Hazardous Polymerization | May Occur | | Conditions to Avoid |
| | Will Not Occur | X | |

Section VI - Health Hazard Data

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|--|-------------------------|--------------------------------|-------------------------------|
| Route(s) of Entry: | Inhalation? Possible | Skin? Unlikely | Ingestion? Unlikely |
| Health Hazards (Acute and Chronic) Acute-None Chronic 1. Excessive inhalation over long periods may cause harmful irritation and to solve, comply with OSHA's 29 CFR 1910.1000 and/or use suitable mask or respiratory protection, 2. Excessive eye exposure may cause harmful irritation and to solve, comply with OSHA's 29 CFR 1910.1000 and/or use suitable goggles or eye protection. | | | |
| Carcinogenicity: | NTP? Not Listed | IARC Monographs? Not Listed | OSHA Regulated? Not Listed |
| Signs and Symptoms of Exposure Eye irritation/coughing, sneezing or respiratory irritation. | | | |
| Medical Conditions Respiratory or eye illnesses or problems which are Generally Aggravated by Exposure aggravated by nuisance dust. | | | |
| Emergency and First Aid Procedures Eye contact-wash out with clean water and/or have particle removed by doctors; Inhalation-fresh air and/or medical attention if distressed or persistent problems. | | | |

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

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| Wash, vacuum or sweep material as necessary complying with OSHA's 29 CFR 1910.1000. See footnote. |
| Waste Disposal Method Dispose of material in accordance with local criteria for soils or soil material. |
| Precautions to Be taken in Handling and Storing Comply with OSHA's 29 CFR 1910.1000 and/or provide suitable respiratory and eye protection. |
| Other Precautions Use good housekeeping practices to avoid dusty conditions. |

Section VIII - Control Measures

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| Respiratory Protection (<i>Specify Type</i>) Recommend an approved dust mask (NIOSH TC-216-XXX) to prevent or assure no exposure above limits in Section II. | | |
| Ventilation Yes | Local Exhaust Yes | Special NA |
| | Mechanical (<i>General</i>) NA | Other NA |
| Protective Gloves Optional | Eye Protection Optional (Goggles recommended) | |
| Other Protective Clothing or Equipment Not required. (Normal work clothes OK.) | | |
| Work/Hygiene Practices Good housekeeping and work hygiene practices. | | |

Footnote:

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* U.S.G.P.O.: 1986-491-529/45775

Warning Statements: CAUTION! Product contains MICA's CSA #1318-00-9. Inhalation of dust may cause coughing or sneezing. Eye contact may cause minor physical irritation.

Precautionary Measures: Avoid creating dust. Provide adequate ventilation and respiratory protection. Equip mixers or hoppers with dust covers where applicable. Avoid contact with eyes.