



Safety Data Sheet
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Material Safety Data Sheet

1.PART ONE

Product Name: VERMICULITE
Data sheet number: MI1047
Trading name: VERMICULLITE(ALL GRADES)
Chemical Name: VERMICULITE
Formula: $(Mg,Fe,Al)_3[(Si,Al)_4O_{10}(OH)_2] \cdot 4H_2O$
Chemical composition: Silicate
National Fire Protection Association Rating Index: Health: 1 Flammable: 0 Reaction: 0
CAS No: 1318-00-9

2.PART TWO: HAZARD IDENTIFICATION

Entry method: Inhalation: Yes Skin: Yes Ingestion: Yes

Inhalation: Excessive concentration of dust can cause coughing, sneezing, and nasal allergies

Vermiculite is not listed as a carcinogen by IARC, NPT and OSHA, but contains inorganic compound and igneous rock.

Ingestion: Accidental inhalation can cause nausea

Skin: Contact with incisions can cause skin inflammation

Eyes: Excessive light sensitivity can cause inflammation of eye tissue.



3.PART THREE: FIRST AID MEASURES

Ingestion: Rinse the mouth, vermiculite is naturally non-toxic, and if nausea persists, medical measures should be taken

Skin: Wash with soap and water.

Inhalation: Transfer to a place with fresh air. If breathing is difficult, add more oxygen or take medical measures.

Eyes: Rinse eyes with clean water for at least 15 minutes. If still uncomfortable, take medical measures.

4.PART FOUR:FIRE FIGHTING MEASURES

Spark points: Non flammable/non explosive
Extinguishing method: Use any suitable material to extinguish the surrounding fire
Special firefighting methods: None
Unusual fire/explosion hazards: None

5. PART FIVE

Accidental spill measures: If necessary, wear a NIOSH/MSHA/OSHA approved respirator. Vermiculite is not dangerous. Rinse with clean water or place it in a vacuum through a filter to recover or reuse the material. If it becomes dirty, collect it in a suitable container for disposal.
(NIOSH National Institute of Occupational Safety and Health)

6. PART SIX: HANDLING AND STORAGE

Other handling measures: use good equipment to control, use good housekeeping methods to store, and minimize dust levels in the work area. Wear a NOISH/MSHA/OSHA approved respirator or mask if necessary.

7. PART SEVEN : EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering control: Use recommended ventilation by NOISH/MSHA/OSHA.
Skin protection: If necessary, wear cotton gloves and cotton suits or sets to minimize contact with the skin.
Eye protection: If necessary, wear goggles or safety glasses with side shields when handling the product
Respiratory protection: Wear a NOISH/MSHA/OSHA approved respirator to avoid inhaling dust. NOISH approved dust resistant breathing masks can effectively resist dust droplets.

8. PART EIGHT: PHYSICAL AND CHEMICAL PROPERTIES

Boiling point: not applicable Color: brown, yellow brown, golden yellow, bronze
Relative density: 2.4-2.7 Odor: odorless
Air pressure: Not applicable Surface: Free flowing thin sheet
Volatility rate: not applicable PH: not applicable
Gas density: not applicable, viscosity: no data provided
Evaporation rate: not applicable Activity: not applicable
Solubility in water: slightly soluble LC50: no data provided
Melting point: not applicable LD50: no data provided

9. PART NINE: STABILITY AND REACTIVITY

Stability: Stable
Major hazard: will not occur
Harmful products of thermal decomposition: None

10.PART TEN:TOXICOLOGICAL INFORMATION

Toxicological test: None

Evaluation of hazardous substances: vermiculite itself contains inorganic compound substances and igneous rock. This product does not contain any toxic chemicals specified in SARA Part 313 III and 40CFR Part 372 of 1986.

Carcinogenicity: Not classified as carcinogenic by IARC/NTP or OSHA

11.PART ELEVEN:ECOLOGICAL INFORMATION

The product is non-toxic in its natural state

12.PART TWELVE : PROCESSING STATUS

Used treatment method: Vermiculite is not a hazardous material under RCRA (40CFR261) regulations. It can be handled according to local regulations.

13.PART THIRTEEN: TRANSPORT INFORMATION

Dangerous Good Code:	N/A
DOT:	N/A
TDG:	N/A
IMO/IMDG:	N/A
ICAO/IATA:	N/A



14.PART FOURTEEN:LAW INFORMATION

The overflow or release of products should not conflict with SARA's emergency handling regulations. State or local laws may differ from federal laws. Select appropriate regulations for future regulatory convenience.

15.PART FIFTEEN : OTHER INFORMATION

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