

## WICKBURY INVESTMENTS COMPANY MATERIAL SAFETY DATA SHEET



### SECTION 1 - Chemical Product and Company Identification

**Product Identifier:** Raw and expanded Vermiculite, All Grades  
**Product Class:** Hydrated Laminar Magnesium Aluminum Iron Silicate  
**Product Use:** Insulation, Construction, Industrial and Horticultural

#### Supplier's Name

Wickbury Investments (Pvt) Ltd  
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Telephone Number: +263 772 423 988  
Preparation date of MSDS: 12 June, 2013  
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### SECTION 2 - Composition/Information on Ingredients

Vermiculite is the mineralogical name given to hydrated laminar magnesium-aluminum-iron silicates which resemble mica in appearance. When subjected to heat, crude vermiculite has the unusual property of exfoliating or expanded into worm-like particles (the name vermiculite is derived from the Latin 'vermiculare', meaning to breed worms.)

Vermiculite is considered a nuisance dust (also called "Particulates Not Otherwise Classified (PNOC)

Alpha-Cristobalite&Tridymite:	Less than 0.1%
Alpha Quartz:	0.01 to 0.05%

### SECTION 3 – Hazards Identification

**Skin contact:** Repeated or prolonged contact may cause irritation

**Skin absorption:** N/A

**Eye contact:** Wear eye protection as may cause irritation or injure eyes, mechanically

**Inhalation:** Coughing and may aggravate pre-existing respiratory conditions and prolonged long-term inhalation of respirable crystalline silica can cause disabling lung disease (silicosis).

**Ingestion:** N/A

**Emergency Overview:** Dust protection equipment must always be worn to protect from the fine particle size products which may represent inhalation hazards. Dust suppression measures must always be put in place.

**Potential Health Effects:** skin irritation, silicosis and eye irritation

### SECTION 4 – First Aid Measures

**Skin Contact:** Thoroughly wash off with ordinary soap and water.

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

**Inhalation:** Avail fresh air and seek expert medical attention if victim is in discomfort.

**Ingestion:** Seek medical attention if victim is in discomfort and do not induce vomiting

### SECTION 5 - Fire Fighting Measures

**Flammable:** Vermiculite is a fully oxidized non-flammable mineral. It is non-combustible

**Means of Extinction:** Use extinguishing media appropriate for surrounding any other material besides vermiculite.

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

**Hazardous Combustion Products:** N/A

## SECTION 6 - Accidental Release Measures

**Leak and Spill Procedures:**Wet spilled material to avoid dust and follow normal clean-up and dump procedures.

## SECTION 7 - Handling and Storage

Vermiculite is not defined as a Dangerous Good. Store in a dry place.

## SECTION 8 - Exposure Control/Personal Protection COMMENTS

**Engineering Controls General:**Best practise housekeeping recommended in addition to dust extraction mechanisms.

### Recommended Personal Protective Equipment:

- Plastic or Rubber Gloves if skin irritation occurs
- Respirator – Any approved dust respirator adequate for contaminants encountered.
- Eye protection recommended
- Gumboots or disposable footwear for frequent handling of this material
- Overalls for frequent handling of this material

## SECTION 9 – Physical and Chemical Properties

<b>Physical State:</b>	Solid Powder or granules
<b>Colour:</b>	Tan brown to golden
<b>Odour:</b>	Odourless
<b>Oduor Threshold (ppm):</b>	N/A
<b>Specific Gravity:</b>	2.5 to 2.7
<b>Melting Point:</b>	+1350 degrees Celsius
<b>pH:</b>	6.5 – 7.5
<b>Coefficient of Water/Oil Distribution:</b>	N/A
<b>Solubility in Water:</b>	Negligible but 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:** as 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.

## SECTION 12 - Ecological Information

**Aquatic Toxicity:** Low hazard for usual industrial or commercial handling and approved for use in soils.

## SECTION 13 - Disposal Considerations

**Waste Disposal:** Dispose of this product in accordance with all applicable local authority or state regulations.

## **SECTION 14 - Transport Information**

Vermiculite is non hazardous and can be transported in containers, grain bags or bulk bags.

## **SECTION 15- 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 June 12, 2013 and may be subject to change without notice. The information is provided in good faith to comply with applicable local authority 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 local authority and state laws and regulations.