



# PERLITE CANADA INC.

SDS

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## SAFETY DATA SHEET

### Section 1: PRODUCT INFORMATION

WHMIS 2015

PRODUCT NAME: VERMICULITE - expanded (ALL GRADES - Fine, Medium and Large)

TRADE NAMES: Blockfill Envirofil Holiday  
Micafil Peatlite

CHEMICAL NAME: Hydrated Laminar Magnesium Aluminium Iron Silicate, **asbestos free.**

CHEMICAL FAMILY: Silicate

MATERIAL USE: Functional additive, light weight aggregate, horticultural aggregate, insulating aggregate, packing material, absorbent

RESTRICTION ON USE: NONE known

MANUFACTURER: **PERLITE CANADA INC.**  
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### Section 2: HAZARDS IDENTIFICATION

OSHA GHS HAZARD CLASSIFICATION:  
NOT CLASSIFIED AS HAZARDOUS (Nuisance dust only)

HAZARDS NOT OTHERWISE CLASSIFIED:  
NONE

LABEL ELEMENTS: NO GHS LABELLING REQUIRED

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

| INGREDIENTS IDENTIFICATION | APPROXIMATE CONCENTRATION | CAS NUMBER   | EINECS       |
|----------------------------|---------------------------|--------------|--------------|
| Vermiculite, expanded      | 100%                      | 1318.00.9000 | Not assigned |

#### **Section 4: FIRST AID MEASURES**

**EYE:** Flush eye with water or eye rinse solution. Consult a physician if irritation persists.

**SKIN:** Wash hands. Use moisture renewing lotions if dryness occurs.

**INGESTION:** Not expected to be an important route of entry into the body. If large amounts of the product are ingested, seek medical attention. Do not induce vomiting.

**INHALATION:** Remove to fresh air. Blow nose to evacuate dust.

**MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:**

Dust may cause abrasive irritation to eyes. Prolonged skin contact may cause dryness.

Dust may cause nose, throat and upper respiratory tract irritation. Prolonged inhalation of high concentration of dust may cause lung effects.

**INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT, IF NECESSARY:**

Immediate medical attention is not normally required. If dust irritates the eyes, seek medical attention.

#### **Section 5: FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Not applicable, the material is not combustible. Packaging might burn.

**SPECIFIC HAZARD ARISING FROM THE CHEMICAL:** Not applicable, the material is not combustible.

**SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:**

Not applicable, the material is not combustible.

#### **Section 6: ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTIONS:** If dust is present, use respirator fitted with particulate filter, as specified Section 8. Protect eyes with goggles.

**ENVIRONMENTAL PRECAUTIONS:** This product is not a significant environmental concern.

**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:**

Vacuum clean spillage, wet sweep or wash away. Avoid creating dust.

Place in a container for use or disposal.

#### **Section 7: HANDLING AND STORAGE**

##### **PRECAUTIONS FOR SAFE HANDLING:**

Minimize dust generation. Avoid contact with eyes. Avoid breathing dust.

Repair or dispose of broken bags. Observe all labels precautions and warnings. Wash hands and face before eating, drinking or smoking.

##### **CONDITIONS FOR SAFE STORAGE:**

Store in a dry place to maintain packaging integrity and product quality.

Store away from products that could be affected by dust.

## Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

| Component                    | OSHA PEL   | ACGIH TLV           | MSHA PEL | ACGIH TLV   |
|------------------------------|--|---------------------|----------|---|
| <b>Vermiculite, expanded</b> | 5 mg/m <sup>3</sup> (respirable dust)<br>15 mg/m <sup>3</sup> (total dust) | None<br>established | 30 mppcf | 5 mg/m <sup>3</sup> (resp. dust)<br>10 mg/m <sup>3</sup> (total dust) |

**ENGINEERING CONTROLS:** Use general or local exhaust ventilation to control dust within recommended exposure limits. Refer to ACGIH publication 'Industrial Ventilation' or similar publications for design of ventilation systems.

### PERSONAL PROTECTIVE EQUIPMENT

|                                |   |
|--------------------------------|---|
| <b>EYE/FACE PROTECTION:</b>    | Goggles to protect from dust.   |
| <b>SKIN PROTECTION:</b>        | No special equipment is needed.   |
| <b>RESPIRATORY PROTECTION:</b> | Appropriate NIOSH/OSHA/MSHA approved dust respirator, NIOSH/OSHA tight-fitting safety glasses and gloves.                                 |
| <b>GENERAL HYGIENE:</b>        | Good housekeeping rules apply. Avoid breathing dust. Avoid contact with eyes.<br>Wash hands after handling and before eating or drinking. |

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

|                          |  |                           |                       |
|--------------------------|--|---------------------------|-----------------------|
| APPEARANCE, COLOR        | <b>Tan to brown powder or granules</b> |                           |                       |
| PHYSICAL STATE           | <b>Solid</b>                           | VAPOR DENSITY             | <b>Not applicable</b> |
| VAPOR PRESSURE           | <b>Not applicable</b>                  | ODOR THRESHOLD            | <b>Not applicable</b> |
| ODOR                     | <b>Odorless</b>                        | FLASH POINT               | <b>Not applicable</b> |
| BOILING POINT            | <b>Not applicable</b>                  | FLAMMABILITY LIMITS       | <b>Not applicable</b> |
| FLAMMABILITY (solid/gas) | <b>Not applicable</b>                  | Ph (10% SUSPENSION)       | <b>7 to 9</b>         |
| MELTING POINT            | <b>&gt; 800' C</b>                     | DECOMPOSITION TEMPERATURE | <b>&gt; 800' C</b>    |
| AUTOIGNITION TEMPERATURE | <b>Not applicable</b>                  | SOLUBILITY - WATER        | <b>Negligible</b>     |
| EVAPORATION RATE         | <b>Not applicable</b>                  | PARTITION COEFFICIENT-n-  |                       |
| SPECIFIC GRAVITY         | <b>2,5 to 2,7</b>                      | OCTANOL/WATER             | <b>Not applicable</b> |
| BULK DENSITY             | <b>Less than 10 lbs per cubic foot</b> |                           |                       |

## **Section 10: STABILITY AND REACTIVITY**

STABILITY: Stable under normal use and conditions.

REACTIVITY HAZARDS: Hydrofluoric Acid

HAZARDOUS DECOMPOSITION PRODUCTS:  
Will react with hydrofluoric acid to produce toxic silicon tetrafluoride gas.

HAZARDOUS POLYMERIZATION: NONE - will not occur.

## **Section 11: TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY INFORMATION: Drying in case of skin contact, a mechanical eye irritant.

LD50/LC50/LCLo (Oral, Dermal, Inhalation) Not established

SYMPTOMS: Inhalation may cause throat irritation resulting in coughing or sneezing and may aggravate pre-respiratory conditions.

DELAYED EFFECTS OF SHORT AND LONG-TERM EXPOSURE: None known

MUTAGENIC EFFECTS: None

CARCINOGENIC EFFECTS: None - these products contain less than 0,1% crystalline silica.

REPRODUCTIVE TOXICITY (reproductive, developmental, tetragenic): None

SPECIFIC TARGET ORGAN TOXICITY (single or repeated exposure): None

## **Section 12: ECOLOGICAL INFORMATION**

Vermiculite is a natural occurring mineral and has no known ecotoxic effects. Approved for use in soils.

## **Section 13: DISPOSAL CONSIDERATIONS**

Vermiculite, by itself, is a non-hazardous waste and should be disposed of in accordance with applicable local, provincial and federal regulations.

## **Section 14: TRANSPORTATION INFORMATION**

PROPER NAME: Expanded Vermiculite

DOT: Not regulated - no special requirements

TDG/IMO/ICAO: Non-hazardous

## Section 15: REGULATORY INFORMATION

**OSHA:** Vermiculite is NOT considered a hazardous or toxic substance  
**WHMIS:** Not applicable - Mechanical irritation does not qualify a material as an irritant  
**SERA:** Not listed  
**TSCA:** Included as a naturally occurring material

## Section 16: OTHER INFORMATION

**HMIS Ratings:** Health: O Flammability: O  
Reactivity: O Personal Protection: E

**The information provided in this document is correct to the best of our knowledge as of the publication date. This information pertains only to the material specified and may not be valid when this material is combined with other materials or subjected to other processes. No warranty or quality specification is implied by this information. It is the responsibility of the user to handle the designated material in a safe manner and comply with all applicable local, provincial and federal regulations.**

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