



SAFETY DATA SHEET

Section 1: PRODUCT INFORMATION

WHMIS 2015

PRODUCT NAME: VERMICULITE - exfoliated (Super Fine, 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

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(CANUTEC):

SDS Date of preparation: January 6, 2025

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
Vermiculite, expanded	5 mg/m ³ (respirable dust) 15 mg/m ³ (total dust)	None established	30 mppcf	5 mg/m ³ (resp. dust) 10 mg/m ³ (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

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

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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

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

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Date: January 6, 2025