

# MATERIAL SAFETY DATA SHEET

## BioEndoPhyte

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### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- a. **Product Identifier: BioEndoPhyte**  
Registration Number: Not Available  
Formulation number: 7  
Chemical Classes: N.A.
- b. **Synonyms:** Microbial Agent, Bacteria, Fungal spores, Endophyte
- c. **Name of Supplier, Address and Emergency Telephone Number:** See above.
- d. **Product Use:** Supplements natural microflora in plants when diluted with water
- e. **Date of MSDS Preparation:** November 9, 2017

### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

- a. **Identity of Ingredients:** Bacteria, Mycorrhizae fungi & inert ingredients
- b. **ingredients present which are on the OSHA Hazard List:** Not Applicable
- c. **Ingredients with unknown toxicological properties:** None
- d. **Ingredients the supplier believes may be harmful:** None
- e. **Generic chemical identity and Registry Number for trade secret ingredients registered under the Hazardous Materials Information Review Commission:** None
- f. **Ingredient concentration in units of wt./wt., vol./vol. or wt./vol. expressed as actual concentration:** Minimum Cell & Spore Concentration Per Gram is  $2 \times 10^8$
- g. **Exposure limits for ingredients:** None

### SECTION 3 - HAZARDS IDENTIFICATION

**Potential Health Effects:**

**Relevant routes of exposure:**

**EYE CONTACT:** May cause irritation by contact

**SKIN CONTACT:** May cause sensitization.

**INHALATION:** Avoid inhaling dust...may cause irritation

**INGESTION:** N.A.

**CHRONIC EFFECTS:** None known.

### SECTION 4 - FIRST AID MEASURES

**IF IN CONTACT:** Describe any symptoms, and follow the advice given.

**EYES:** Flush eyes with plenty of clean water.

**SKIN:** Wash area with soap plenty of water. Wash contaminated clothing before reuse.

**INHALATION:** Move the victim to fresh air.

**INGESTION:** If victim is fully conscious, immediately give a large amount of water to drink.

## SECTION 5 - FIRE FIGHTING MEASURES

- 1. Flash point and method:** Not available, not combustible.
- 2. Upper and lower flammable (explosive) limits in air (% by volume):** Not applicable
- 3. Auto ignition temperature:** Not applicable
- 4. Hazardous combustion products:** Not applicable
- 5. Conditions under which flammability could occur:** None
- 6. Extinguishing media:** Water
- 7. Sensitivity to explosion by mechanical impact:** No
- 8. Sensitivity to explosion by static discharge.** No

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Procedures for dealing with release or spill:** Clean up spills immediately, wearing protective clothing.

In case of a major spill: Isolate and barricade area and keep bystanders away. Contact local government for advice.

For small Spills: Isolate area and contain spill. Sweep up carefully and shovel into a disposable container. Disposal container must be labeled appropriately. Rinse area with water and soak up with absorbent.

## SECTION 7 - HANDLING AND STORAGE

### **Handling practices:**

Keep out of reach of children, unauthorized persons and animals. Avoid eye contact and prolonged skin contact. Avoid inhalation of mists. Wear protective clothing and after work, remove protective equipment, and wash hands before eating, smoking, drinking, or using the toilet. Clean up spilled material immediately, and clean clothes, equipment, and work area after use.

### **Appropriate storage practices/requirements:**

Store in original container in a refrigerated 4°C secure area. Keep separate from other products to prevent cross contamination. Clean up any spilt material immediately.

## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Applicable control measures, including engineering controls:**

Ensure work areas have ventilation, containment, and procedures sufficient to maintain airborne levels below the TLV listed. Develop written safety and inspection procedures. Warehouses, production areas, parking lots and waste holding facilities must have adequate containment to prevent environmental contamination. Provide separate shower and eating facilities.

**Personal protective equipment for each exposure route:**

**Respirator:** Use an approved NIOSH respirator if ventilation is not adequate, particularly in hot non-ventilated spaces.

**Eyes:** Wear safety glasses.

**Skin:** Avoid contact or wash after use.

**Work place Exposure Guidelines.**

Follow OSHA 29 CFR 1910.134 requirements whenever workplace conditions warrant use of a respirator.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

- a. **Appearance:** Beige colored powder
- b. **Odor:** Very slight pleasant odor
- c. **Physical state:** Powder
- d. **pH:** Not applicable
- e. **Vapor pressure and reference temperature:** Not available
- f. **Vapor density:** Not available
- g. **Boiling point:** Not available
- h. **Freezing/Melting point:** do not freeze. Store at 2° to 5°C
- i. **Density:** 0.4 gms/cc
- j. **Evaporation Rate:** Not available
- k. **Water/oil partition coefficient:** Not available
- l. **Odor threshold:** Not available
- m. **Viscosity:** Not applicable

**SECTION 10 - STABILITY AND REACTIVITY**

- a. **Chemical stability:** **Stable** – store in refrigerator at 4°C
- b. **Conditions to avoid:** Freezing or temperatures over 30°C
- c. **Incompatibility with other materials:** None.
- d. **Hazardous decomposition products:** None.
- e. **Hazardous polymerisation:** Will not occur

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Information on product:**

- a. **LD50 (species and route):** >2g/kg oral rat.
- b. **Irritation data:** This product may irritate human eyes following contact.
- c. **Sensitization:** This product is not expected to cause sensitization.
- d. **Carcinogenicity:** Not determined
- e. **Reproductive toxicity:** Not determined.
- f. **Teratogenicity:** Not determined.
- g. **Mutagenicity:** Not determined
- h. **Chronic exposure:** None.
- i. **Other materials that show synergistic toxic effects together with the product:**  
None known.

## SECTION 12 - ECOLOGICAL INFORMATION

Active ingredient: LC50/30d/rainbow trout =  $3.5 \times 10^8$  cfu/L (504 mg/L)  
EC50/21d/daphnia =  $5.5 \times 10^6$  cfu/L (7.8 mg/L)

## SECTION 13 - DISPOSAL CONSIDERATIONS

**Waste disposal information:** Do not reuse containers. Rinse thoroughly three times. Consult state/ provincial environment ministry for advice on waste disposal of empty containers. All recovered material must be packaged, labeled, transported and disposed or reclaimed in conformance with applicable laws and regulations and in conformance with Good Engineering Practices. Reclaim where possible.

## SECTION 14 - TRANSPORT INFORMATION

**Shipping information such as shipping classification:** Ship and store away from food, feed, cosmetics, and medical supplies.

## SECTION 15 - REGULATORY INFORMATION

**TSCA INVENTORY STATUS:** Not Applicable  
**SARA 311/312 HAZARD CATEGORIES:** Not Applicable  
**SARA 313 TOXIC CHEMICALS:** Not Applicable  
**SARA 302 EXTREMELY HAZARDOUS SUBSTANCES:** Not Applicable  
**CERCLA HAZARDOUS SUBSTANCES:** Not Applicable

## SECTION 16 OTHER INFORMATION

**HMIS RATINGS: HEALTH:** 0  
**FLAMMABILITY:** 0  
**REACTIVITY** 0.  
**NFPA RATINGS: HEALTH:** 0  
**FLAMMABILITY:** 0  
**REACTIVITY** 0.

The information contained herein is offered only as a guide to the handling of this specific product and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. It is the users responsibility to satisfy himself or herself as to the suitability and completeness of such information for his or her own particular use. No warranty of any kind is given or implied.