

# Material Safety Data Sheet

Trade Name

## DIEHARD™ Ecto Root Dip

### 1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Horticultural Alliance, Inc.  
1550 66<sup>th</sup> Ave. Dr. E.  
Sarasota, FL 34243  
Tel: 941-739-9121  
Fax: 941-752-1890  
Webpage: [www.hortsorb.com](http://www.hortsorb.com)

### 2. Composition / Info. on Ingredients

<i>Potentially Hazardous Components</i>	<i>%</i>	<i>OSHA PEL</i>	<i>NIOSH</i>	<i>ACGIH</i>
Humate (Coal Dust, Humic Acids)	35%	1.5 mg/m <sup>3</sup>	-	0.1 mg/m <sup>3</sup>
Crystalline Quartz	0.7%-2.5%	0.1 mg/m <sup>3</sup> (reparable)	50ug/m <sup>3</sup> (reparable)	
Natural spores of ectomycorrhizae, a collected forest fungus.	<1%	15 mg/m <sup>3</sup> nuisance dust	-	10 mg/m <sup>3</sup> nuisance dust

### 3. HAZARDS IDENTIFICATION

The product, when wet, renders surfaces extremely slippery. The product swells in water.

### 4. FIRST AID MEASURES

**Inhalation:** No hazards which require special first aid procedures.

**Skin Contact:** No hazards which require special first aid procedures.

**Eye Contact:** Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation occurs, consult a physician.

**Ingestion:** The product is not considered toxic based on studies on laboratory animals.

### 5. FIRE FIGHTING PROCEDURES

**Suitable extinguishing media:** Water, water spray, foam, carbon dioxide, dry power.

**Fire extinguishing agents to avoid:** None

**Special fire fighting precautions:** Wear respiratory protection to avoid breathing dust and smoke.

**Special protective equipment for firefighters:** Take precautions against explosion hazard associated with airborne concentrations of spore dust at high temperature.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions:** No special precautions required.

**Environmental precautions:** Take same precautions that one would take with dust.

**Methods for cleaning up:** Clean up promptly by scoop or vacuum. Avoid stirring up dust. Sweep up under a water mist to reduce dust potential. If contact with skin occurs wash skin with soap and water. Keep in suitable and closed containers for disposal.

## 7. HANDLING AND STORAGE

**Handling:** Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Wash hands before breaks and at the end of the workday.

**Storage:** Keep in a dry, cool place (0-35°C).

## 8. EXPOSURE CONTROLS

**Engineering measures to reduce exposure:** Use local exhaust if dusting occurs. Natural ventilation is adequate in absence of dusts.

**Personal protection equipment**

- **Respiratory protection:** Dust safety masks are recommended where concentration of total dust is more than 10 mg/m<sup>3</sup>.

- **Eye protection:** Keep away from eyes. Wear safety glasses with side shields if dusts are present.

- **Skin and body protection:** No special protective clothing required.

- **Hygiene measures:** Wash hands before breaks and at the end of the workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form:** Brown dust and granular with about 1/3 white.

**Color:** Dark Brown

**Odor:** Slight - earth smell

**pH:** Not applicable

**Melting point (°C):** Not applicable

**Flash point (°C):** Not applicable

**Auto ignition temp. (°C):** Not applicable

**Vapor pressure (mm Hg):** Not applicable

**Bulk Density:** 0.4-0.6

**Water solubility:** Both soluble and insoluble

## 10. STABILITY AND REACTIVITY

**Stability:** Product is stable.

**Conditions to avoid:** Avoid explosive dust concentrations.

**Materials to avoid:** None Known

**Hazardous decomposition products:** None Known

**Hazardous Polymerization:** Will not occur

## 11. HEALTH HAZARD DATA

**Route(s) of Entry:** Inhalation – Yes, Skin – Possible, Ingestion - Possible

**Health Hazards:**

**Acute:** Persons with acute allergies could become asthmatic (rare). Allergies could develop over time in some individuals.

**Chronic:** Persons with mold allergies could experience hay fever with sneezing and nasal congestion. Skin allergy could develop from repeated excess skin contact. involving itching and rash (rare).

**Carcinogenicity:** No data

**Signs and Symptoms of Exposure:** Sneezing, stuffed or runny nose, hay fever symptoms.

**Medical Conditions Generally Aggravated by Exposure:** Hay fever, mold allergies, dermatitis.

**Emergency and First Aid Procedures:** If hay fever symptoms develop remove individual from exposure. If wheezing or breathing difficulties develop remove individual to fresh air. If necessary give oxygen. Call a physician. In the rare case of skin rash wash affected area with soap and water. Call a physician for treatment of contact dermatitis. If material is ingested, drink water, induce vomiting, and call a physician.

## 12. ECOLOGICAL INFORMATION

**Toxicity:** Ecological injuries are not known or expected under normal use. Aquatic toxicity is unlikely due to low solubility.

**Persistence / degradability:** Biodegradable

## 13. DISPOSAL CONSIDERATIONS

**Waste from residues / unused products:** In accordance with federal, state and local disposal or discharge regulations.

**Contaminated packaging:** Can be land filled or incinerated, when in compliance with federal, state and local disposal or discharge regulations.

## 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning transport regulations.

## 15. REGULATORY INFORMATION

The product is not a hazardous article and need not be labeled according to EC-Directives as mentioned.

## 16. OTHER INFORMATION

**Person to Contact:** James Quinn, President, 800-268-6373, 1550 66<sup>th</sup> Ave Dr E, Sarasota, FL 34243, jamesq@horticulturalalliance.com