

Material Safety Data Sheet

Trade Name

DIEHARD™ Root Dip

1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

Horticultural Alliance, Inc.

P.O. Box 5744

Sarasota, FL 34277

Tel: 941-917-0670

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2. Composition / Info. on Ingredients

<i>Potentially Hazardous Components</i>	%	OSHA PEL	NIOSH	ACGIH
Humate (Coal Dust, Humic Acids)	35%	1.5 mg/m ³	-	0.1 mg/m ³
Crystalline Quartz	0.7%-2.5%	0.1 mg/m ³ (respirable)	50ug/m ³ (respirable)	
Natural spores of <i>Pisolithus tinctorius</i> , a collected forest fungus.	<1%	15 mg/m ³ nuisance dust	-	10 mg/m ³ 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 breath 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/m³.

- **Eye protection:** Keep away from eyes. Wear safety glasses with sideshields 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 granulars 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
Autoignition 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 hayfever 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, hayfever symptoms.

Medical Conditions Generally Aggravated by Exposure: Hayfever, mold allergies, dematitis.

Emergency and First Aid Procedures: If hayfever 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

Ecotoxicity: 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 landfilled 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