



**BioWorks®**

**RootShield® WP  
Biological Fungicide**

Revision Date: May 20, 2013

## SAFETY DATA SHEET

### 1. IDENTIFICATION

GENERAL USE: Biological Fungicide  
COMMON NAME: RootShield® WP Biological Fungicide  
MANUFACTURED BY: EMERGENCY TELEPHONE NUMBER:  
BioWorks, Inc.  
100 Rawson Rd, Suite 205  
Victor, NY 14564 BioWorks, Inc: 800-877-9443  
CHEMTREC: 800-424-9300

### 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Grey or green powder with earthy odor. Dust may cause eye, skin and respiratory tract irritation.  
POTENTIAL HEALTH EFFECTS:  
INHALATION: Dust may irritate the respiratory tract.  
EYE CONTACT: Dust may cause irritation.  
SKIN CONTACT: Dust may cause irritation.  
INGESTION: Active ingredient has shown no mammalian toxicity.  
CHRONIC: No known effects.  
CARCINOGENICITY: The ingredients in this product are not listed by NTP, OSHA, or IARC as a carcinogen.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product contains the following ingredients:

COMPONENT	CAS No.	%	OSHA PEL	ACGIH
Trichoderma harzianum Rifai strain T-22	67892-31-3	1.15	N/E*	N/E*
Inert ingredients (confidential)		98.85	N/E*	N/E*

\*N/E = Not Established

### 4. FIRST-AID MEASURES

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT: Remove contaminated clothing. Wash thoroughly with soap and water immediately. Get medical attention if irritation develops.

**EYE CONTACT:** In cases of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**INGESTION:** If swallowed, do NOT induce vomiting. Call a physician.

## 5. FIRE-FIGHTING MEASURES

**FLASH POINT:** Not applicable.

**AUTOIGNITION TEMPERATURE:** Not determined

**EXTINGUISHING MEDIA:** Not combustible.

**SPECIAL FIRE-FIGHTING PROCEDURES:** Evacuate personnel to a safe area. Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus and full protective equipment.

**UNUSUAL FIRE and EXPLOSION HAZARDS:** None known.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition will produce oxides of carbon, sulfur, sodium and silicon.

## 6. ACCIDENTAL RELEASE MEASURES

**GENERAL:** Take all additional action necessary to prevent and remedy the adverse effects of the spill. This product should be prevented from entering bodies of water.

**SPECIFIC:** In case of spill, collect material immediately. Wipe residual material from surfaces with cloth. Do not wash residues into drains or other waterways.

## 7. HANDLING AND STORAGE

Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Store in original container under refrigerated conditions. Short periods at room temperatures below 75oF will not affect performance. Do not store near food or feed commodities. Prevent exposure to moisture. Keep container tightly closed when not in use.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with skin, eyes or clothing. Keep container tightly closed.

**PERSONAL PROTECTION:**

**RESPIRATORY:** When opening or dumping bags, or other operations where dusts may be created, wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95.

**PROTECTIVE GLOVES:** Wear waterproof gloves.

**OTHER:** Applicators and other handlers must wear: long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

## 9. PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE: grey or green powder

VAPOR PRESSURE: Not applicable

ODOR: earthy odor

MELTING POINT: Not determined

SPECIFIC GRAVITY: 0.61 g/cm<sup>3</sup>

SOLUBILITY in water: Insoluble

BOILING POINT: Not determined

VISCOSITY: Not determined

## 10. STABILITY and REACTIVITY

STABILITY: Stable under normal recommended storage and handling conditions. (see section 7)

HAZARDOUS POLYMERIZATION:

Will not occur.

INCOMPATIBILITY: Strong acidic materials.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: Thermal decomposition will produce oxides of carbon, sulfur, sodium and silicon.

## 11. TOXICOLOGICAL INFORMATION

Active ingredient is practically non-toxic, non-allergenic and non-pathogenic to mammals. Pre-existing medical conditions should not be aggravated by exposure.

## 12. ECOLOGICAL INFORMATION

FISH TOXICITY: No data available.

DAPHNIA MAGNA TOXICITY: No data available.

ALGAE: No data available

OTHER: Do not apply directly to water, to areas where surface water is present.

## 13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Do not contaminate food or feed by disposal. Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into the application equipment by shaking and tapping sides and bottom to loosen clinging particles. Then offer for recycling if available, or dispose of empty bag in sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances. If outer box is contaminated, dispose of in same manner as bag.

## 14. TRANSPORT INFORMATION

Land: ADR / RID Class: Not controlled under ADR (Europe)

Water: IMDG Class: Not controlled under IMDG

Air: IATA - DGR Class: Not controlled under IATA

Other: US DOT: Not Regulated

Canadian TDG: Not Regulated under Canadian Transport of Dangerous Goods Regulations

## 15. REGULATORY INFORMATION

UNITED STATES (EPA Reg. No. 68539-7)

This pesticide product is registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other information, including direction for use.

### CAUTION

Dust may irritate the respiratory tract.

Dust may cause eye irritation.

Dust may cause skin irritation.

SARA Hazard Class:  Acute  Chronic  Flammable  Pressure  Reactive  None

SARA 313  Yes  No, Chemical

SARA 302  Yes  No, Chemical

CERCLA:  Yes  No, Chemical

RQ: none

RCRA:  Yes  No

NFPA Hazard Rating:

Health: [1]

Fire: [1]

Reactivity: [0]

Special: [1]

NFPA Hazard Rating Scale:

0 = Minimal 3 = Serious

1 = Slight 4 = Severe

2 = Moderate

HMIS Codes:

Health: [1]

Fire: [1]

Reactivity: [0]

HMIS Hazard Rating Scale:

0 = Minimal 3 = Serious

1 = Slight 4 = Severe

2 = Moderate

CANADA (PCP No. 29890)

WHMIS: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

## 16. OTHER INFORMATION

CONTACT: BioWorks, Inc.  
100 Rawson Rd, Suite 205  
Victor, NY 14564

TELEPHONE: 800-877-9443

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