



**BioWorks®**

**RootShield®  
Home and Garden**

Revision Date: March 6, 2013

## SAFETY DATA SHEET

### 1. IDENTIFICATION

GENERAL USE: Biological Fungicide  
COMMON NAME: RootShield® Home & Garden

MANUFACTURED By: BioWorks, Inc.  
100 Rawson Rd, Suite 205  
Victor, New York 14564

EMERGENCY TELEPHONE NUMBERS: 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 ACGIH 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:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**SKIN CONTACT:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**EYE CONTACT:** Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**INGESTION:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

## 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, 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 and eyes. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.

Store in original container in a cool, dry place away from acids. Prevent exposure to moisture. Keep container tightly closed and out of reach of children. Avoid contamination with other pesticides or fertilizers. Do not contaminate water, food or feed.

## 8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with skin or clothing. Use only outdoors. Keep container tightly closed. .

PERSONAL PROTECTION:

RESPIRATORY: Use with adequate ventilation to prevent dust inhalation.

PROTECTIVE GLOVES: Use protective gloves.

OTHER: Applicators and other handlers must wear: long-sleeved shirt, long pants, socks and shoes, Wash hands 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

ODOR: earthy odor

VAPOR PRESSURE: Not applicable

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

SOLUBILITY in water: Insoluble

MELTING POINT: Not determined

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 and silicon.

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

## 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.

## 13. DISPOSAL CONSIDERATIONS

Nonrefillable container. Do not reuse or refill this container. If empty - Place in trash or offer for recycling if available. If partly filled - Call your local solid waste agency or 1-800 CLEANUP for disposal instructions. Never place unused product down indoor or outdoor drain.

## 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. 68539-4)

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]

NFPA Hazard Rating Scale:

0 = Minimal 3 = Serious

1 = Slight 4 = Severe

2 = Moderate

Special: [ ]

HMIS Codes:

Health: [1]  
Fire: [1]  
Reactivity: [0]

HMIS Hazard Rating Scale:

0 = Minimal                      3 = Serious  
1 = Slight                        4 = Severe  
2 = Moderate

## 16. OTHER INFORMATION

CONTACT: BioWorks, Inc.  
100 Rawson Rd, Suite 205  
Victor, NY 14564  
TELEPHONE: (800) 877-9443

### DISCLAIMER AND LIMITATION OF LIABILITY

THIS INFORMATION WAS DEVELOPED FROM INFORMATION ON THE CONSTITUENT MATERIALS. NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN, AND COMPANY DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. THE USER SHOULD SATISFY HIMSELF THAT HE HAS ALL CURRENT DATA RELEVANT TO HIS PARTICULAR USE.