



BioWorks®

How You Grow Matters™

RootShield® Plus WP
Biological Fungicide

Date: February 20, 2012

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MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT and COMPANY IDENTIFICATION

GENERAL USE: Biological Fungicide

COMMON NAME: RootShield® Plus 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. COMPOSITION, INFORMATION ON INGREDIENTS

Product contains the following ingredients:

COMPONENT	CAS No.	%	OSHA PEL	ACGIH
<i>Trichoderma harzianum</i> Rifai strain T-22	67892-31-3	1.15	N/E	N/E
<i>Trichoderma virens</i> strain G-41	None	0.61	N/E	N/E
Other ingredients	Confidential	98.24	N/E	N/E

N/E = Not Established

3. 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.

4. EMERGENCY AND FIRST AID MEASURES

EYE CONTACT: In cases of contact, hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. 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 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.

PESTICIDE STORAGE: Do not contaminate water, food or feed by storage and disposal. Store in original container under refrigerated conditions. Short periods at room temperatures below 75°F will not affect performance. Keep container tightly closed when not in use.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

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

PERSONAL PROTECTION:

RESPIRATORY: Mixer/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95.

OTHER: Applicators and other handlers must wear: protective eyewear, long-sleeved shirt and long pants, and shoes plus socks.

9. PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE: grey or green powder

VAPOR PRESSURE: Not applicable

BULK DENSITY: 0.359 g/cm³

SOLUBILITY in water: 98.24% Water soluble

ODOR: earthy odor

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, 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.

Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

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: Wastes resulting from use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. 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 burned, stay out of smoke. If outer box is contaminated, dispose of it in the same manner as required for the bag.

14. TRANSPORT INFORMATION (not meant to be all inclusive)

D.O.T.- Land, air and sea

PROPER SHIPPING NAME: Not regulated

15. REGULATORY INFORMATION (not meant to be all inclusive)

UNITED STATES

FIFRA (Federal Insecticide, Fungicide and Rodenticide Act): Regulated,
EPA Reg. No. 68539-9

SARA Hazard Class: Acute Chronic Flammable Pressure Reactive
 None

SARA 313 Yes No, Chemical

SARA 302 Yes No, Chemical
RQ: none

CERCLA: Yes No, Chemical

RCRA: Yes No

NFPA Hazard Rating:

NFPA Hazard Rating Scale:

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

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

HMIS Codes:

HMIS Hazard Rating Scale:

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

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

CANADA

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

MSDS SUMMARY: MSDS Revised February 20, 2012

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

TELEPHONE: 800-877-9443

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