



BioWorks®

RootShield® Granules Biological Fungicide

Revision Date: May 20, 2013

SAFETY DATA SHEET

1. IDENTIFICATION

GENERAL USE: Biological Fungicide
COMMON NAME: RootShield® Granules Biological Fungicide

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

EMERGENCY TELEPHONE NUMBERS: BioWorks, Inc.: 800-877-9443
CHEMTREC: 800-424-9300

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Grey or green granules 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
<i>Trichoderma harzianum</i> 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, 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 hands thoroughly before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

Store in original container in a cool, dry place. Do not store near food or feed commodities. Prevent exposure to moisture. Do not store at above 75°F for prolonged periods. Keep container tightly closed when not in use.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with skin 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 (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with an approximate N-95, R-95, P-95 or HE filter for biological products.

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 granules

ODOR: earthy odor

VAPOR PRESSURE: Not applicable

SPECIFIC GRAVITY: 0.61 g/cm³

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.

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

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

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. 68539-3)

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: []

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. 27116)

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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