
MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT and COMPANY IDENTIFICATION

GENERAL USE: Biological Fungicide

COMMON NAME: RootShield® HC Biological Fungicide Wettable Powder

MANUFACTURED FOR:**EMERGENCY TELEPHONE NUMBER:**

BioWorks, Inc.

BioWorks, Inc: 800-877-9443

100 Rawson Rd, Suite 205

Victor, NY 14564

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 KRL-AG2	67892-31-3	1.15	N/E	N/E
Inert ingredients	confidential	98.85	N/E	N/E

N/E = Not Established

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Grey or green powder with earthy odor. Dust may cause sensitization if inhaled or in contact with the skin. Dust may cause eye, skin and respiratory tract irritation.

POTENTIAL HEALTH EFFECTS:**INHALATION:** Dust may irritate the respiratory tract and cause respiratory sensitization.**EYE CONTACT:** Dust may cause irritation.**SKIN CONTACT:** Dust may cause irritation and sensitization.**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

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 and eyes or clothing. Avoid breathing dust or spray mist.. Wash hands thoroughly with soap and water 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. Use only outdoors. Keep container tightly closed.

PERSONAL PROTECTIVE EQUIPMENT:

RESPIRATORY: Use with adequate ventilation to prevent dust inhalation. When mixing/loading or applying the product and during all clean-up/repair activities wear a dust/mist filtering respirator(MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any N-95, R-95, P-95 or HE filter for biological products.

EYES: Wear eye goggles.

PROTECTIVE GLOVES: Use waterproof 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

MELTING POINT: Not determined

9. PHYSICAL and CHEMICAL PROPERTIES (continued)

SPECIFIC GRAVITY: 0.61 g/cm³

BOILING POINT: Not determined

SOLUBILITY in water: Insoluble

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, 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 may be disposed of on site or at an approved waste disposal facility. Dispose of empty container in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning . If burned, stay out of smoke.

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. 68539-4

SARA Hazard Class: ☐ Acute ☐ Chronic ☐ Flammable ☐ Pressure ☐ Reactive
☒ NoneSARA 313 ☐ Yes ☒ No, ChemicalSARA 302 ☐ Yes ☐ No, ChemicalCERCLA: ☐ Yes ☐ No, Chemical

RQ: none

RCRA: ☐ Yes ☐ No

NFPA Hazard Rating:

NFPA Hazard Rating Scale:

Health: [1]

0 = Minimal

3 = Serious

Fire: [1]

1 = Slight

4 = Severe

Reactivity: [0]

2 = Moderate

Special: []

HMIS Codes:

HMIS Hazard Rating Scale:

Health: [1]

0 = Minimal

3 = Serious

Fire: [1]

1 = Slight

4 = Severe

Reactivity: [0]

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

CONTACT: BioWorks, Inc.

TELEPHONE: 800-877-9443

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Victor, NY 14564

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