

# RootShield® Granules Biological Fungicide

*For the Suppression of Root Diseases caused by Pythium, Rhizoctonia  
and Fusarium in Greenhouse Crops*

COMMERCIAL

## **READ THE LABEL BEFORE USING**

**GUARANTEE:** *Trichoderma harzianum* Rifai strain KRL-AG2 contains a minimum of  $1.0 \times 10^7$  colony forming units per gram of dry weight

POTENTIAL SENSITIZER

REGISTRATION No. 27116 PEST CONTROL PRODUCTS ACT

NET CONTENTS: 5 or 18 kg.

BioWorks Inc. 51 Central Avenue Geneva, N.Y. 14456

Date of Manufacture: Use within 12 months of date of manufacture.

**GENERAL INFORMATION:** RootShield Granules is a biological fungicide for the suppression of root diseases in greenhouse crops. The active ingredient is a beneficial microbe, *Trichoderma harzianum* strain T-22 (KRL-AG2). When applied to greenhouse planting mix or soil, RootShield actively grows onto plant roots as they develop and protects roots against *Pythium*, *Rhizoctonia* and *Fusarium*. RootShield can be used alone or in conjunction with certain chemical fungicides; contact manufacturer or distributor for compatibility Technical Bulletin.

For control of seed rot and damping off of internally infected cuttings, use chemical fungicides or other appropriate measures in addition to RootShield Granules.

**Note:** RootShield Granules contains live spores of a beneficial microbe. RootShield becomes active when soil temperatures are above 10°C. Control is not effective while soils remain cold and is more effective in neutral or acidic soils than in alkaline soils.

## **DIRECTIONS FOR USE: GREENHOUSE: ALL ORNAMENTAL CROPS, TOMATOES AND CUCUMBERS:**

For the suppression of root diseases caused by *Pythium*, *Rhizoctonia* and *Fusarium* mix RootShield Granules with greenhouse planting mix or soil at a rate of 600 g per cubic metre (loose) planting mix or soil. For best results thoroughly incorporate RootShield during mix preparation or pot filling, or incorporate into planting beds by raking or tilling.

It is not possible to test all ornamental varieties and some may show delayed growth. RootShield should first be tested on a small lot of plants, if the response of the variety is not known, before using it for commercial scale production.

**PRECAUTIONS: KEEP OUT OF THE REACH OF CHILDREN.** May cause sensitization. Avoid contact with skin and eyes or clothing. Avoid breathing dust. Workers and handlers (includes mixer/loader, applicators, and early entry workers) must wear a long sleeved shirt, long pants, shoes plus socks, waterproof gloves and eye goggles as well as 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 when mixing/loading or applying

the product and during all clean-up/repair activities. Workers wearing appropriate PPE can enter treated areas during the restricted entry interval (REI) of 4 hours. Wash thoroughly with soap and water after handling. Remove contaminated clothing and follow manufacturers directions for cleaning/maintaining personnel protective equipment (PPE) before use. If no such instructions are available use clothing detergent and hot water for cleaning all washable PPE. Keep and wash PPE separately from other laundry. Wash hands after use. Do not store product near food or feed.

#### ENVIRONMENTAL PRECAUTIONS:

Do not contaminate any body of water or groundwater when disposing of equipment wash water. Do not apply directly to water or to areas where surface water is present. The treated plant material must not be used as substrate for mushrooms farms.

#### FIRST AID:

**IF ON SKIN/CLOTHING:** Take off contaminated clothing. Rinse skin IMMEDIATELY with plenty of water.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water. Remove contact lenses, if present, then continue rinsing eye.

**GENERAL:** Seek medical attention IMMEDIATELY if irritation occurs and persists or is severe. Take container, label or product name and Pest Control Product Registration Number with you, when seeking medical attention.

**TOXICOLOGICAL INFORMATION:** Treat symptomatically. There is no need to induce vomiting. Monitor patient until ingested material clears their system.

**STORAGE:** Store in a secure dry place at temperatures between 2°C and 5°C. Do not contaminate water, food, or feed during storage. Keep product in original container during storage and keep container lid tightly closed when not in use. This product should be used by the date stamped on the label, when stored at room temperature.

#### DISPOSAL:

1. Thoroughly empty the contents of the container into the application device or medium.
2. Make the container unsuitable for further use.
3. Dispose of the container in accordance with provincial requirements.
4. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**NOTICE TO USER:** This control product is to be used only in accordance with the directions on this label. It is an offence under the Pest Control Products Act to use a control product under unsafe conditions.

**NOTICE TO BUYER:** Seller's guarantee shall be limited to the terms set out on the label and subject thereto, the buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.