RootShield® Granules

**Biological Fungicide**

**ACTIVE INGREDIENT**

Trichoderma harzianum Rifai strain T-22 1.15%

**OTHER INGREDIENTS**

55.85%

**TOTAL**

100.00%

*Contains at least 1.0 x 10^7 colony forming units per gram dry weight.

EPA Reg. No.: 68539-3
EPA Est. No.: 68539-NY-001

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

Do not apply this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected workers may be in the area during application. For any requirement specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 190. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval (REI).

**PRODUCT INFORMATION**

RootShield® Granules Biological Fungicide is a preventative biological fungicide for control of soilborne plant pathogens and plant root diseases. The active ingredient is a microbe, Trichoderma harzianum Rifai strain T-22, which when applied as an inoculant to soil or planting mixes, grows onto plant roots as they develop and provides protection against soilborne plant pathogens such as Pythium, Rhizoctonia, Fusarium, Cylindrocladium, and Thielaviopsis.

RootShield® Granules Biological Fungicide can be used in combination with or in rotation with other fungicides, insecticides, herbicides, and nutrients in accordance with the more restrictive label limitations and precautions. Do not exceed label dosage rates. This product cannot be used with any other product containing a label prohibition against such mixing. This product is not compatible with chemicals that contain the following active ingredients: imazalil, propiconazole, tebuconazole, and triflumizole. Do not apply RootShield® Granules Biological Fungicide as a broadcast application. Cover applied product with soil or otherwise incorporate it into the planting soil or soil mix.

**PRESERVATION STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

Caution: Causes moderate eye irritation. Avoid contact with eyes or clothing. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers must wear protective eyewear, long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks. Mixer/loaders and applicators must wear a dust/particulate filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization. Follow manufacturer’s directions for cleaning/maintaining PPE. If any such instructions for washable clothing, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS**

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**ENVIRONMENTAL HAZARDS**

For Temporal Use. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsates.

**DIRECTIONS FOR USE**

In a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected workers may be in the area during application. For any requirement specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

**APPLICATION INSTRUCTIONS**

**APPLY VIA GROUND APPLICATION ONLY**

**CROPS ON WHICH ROOTSHIELD® GRANULES BIOLOGICAL FUNGICIDE MAY BE USED**

<table>
<thead>
<tr>
<th>CROPS</th>
<th>USE</th>
<th>APPLICATION RATE OF ROOTSHIELD® GRANULES BIOLOGICAL FUNGICIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Berries and Small Fruits</td>
<td>In-furrow</td>
<td>5.0 – 12.0 lb / acre</td>
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<tr>
<td>Blackberries</td>
<td></td>
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<tr>
<td>Blueberries</td>
<td></td>
<td></td>
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<tr>
<td>Currents, Elderberries</td>
<td></td>
<td></td>
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<tr>
<td>Gooseberries</td>
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<tr>
<td>Mushrooms</td>
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<tr>
<td>Raspberry</td>
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<tr>
<td>Strawberries</td>
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</tr>
<tr>
<td>Raspberries</td>
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</tr>
<tr>
<td>Citrus Fruits</td>
<td>In-furrow</td>
<td>5.0 – 12.0 lb / acre</td>
</tr>
<tr>
<td>Citrus Hybrid, Grapefruit</td>
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<tr>
<td>Kumquat, Limes, Oranges, Pummelos</td>
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</tbody>
</table>

**IN-FURROW SOIL TREATMENT**

Apply RootShield® Granules Biological Fungicide from a granular applicator at the rate of 5-12 pounds per acre. Apply granules using a metering device, such as a Gallon applicator or equivalent, mounted to deliver granules into the furrow just behind the furrow opener. Apply in furrow at seeding or to established crops as a side dress and incorporate into soil.

**GREENHOUSE PLANTING MIX AMENDMENT**

Mix RootShield® Granules Biological Fungicide with planting mix to deliver 1.5 pounds per cubic yard (loose mix). Thoroughly incorporate RootShield® Granules Biological Fungicide into planting mixes during mixing preparation or pot filling.

**NURSERY PLANTING MIX AMENDMENT**

For nursery planting mixes, apply RootShield® Granules Biological Fungicide at the rate of 1.5 pounds per cubic yard (loose mix). For nursery beds, incorporate at a rate of 1.5 pounds per 1000 square feet of bed by raking or filling. Application of irrigation water will help move RootShield® Granules Biological Fungicide into the soil. If soil is fertigated or steam sterilized, apply RootShield® Granules Biological Fungicide after treatment.

**TREES**

Apply RootShield® Granules Biological Fungicide to the planting hole at a rate of 0.2 - 0.8 ounces and incorporate into the planting soil or soil mix.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE**

Store in a cool, dry place. Do not store near food or feed commodities. Do not store at temperatures above 70°F for prolonged periods. Keep container tightly closed when not in use.

**PESTICIDE DISPOSAL**

Wastes resulting from the 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 and incorporate into the soil.

**NOTICE TO BUYER AND SELLER**

Seller warrants that this product conforms to the description on the label and is reasonably fit for the purposes stated on the label when used and stored in accordance with directions under normal conditions of use. This warranty does not extend to use of this product contrary to label directions or under conditions not reasonably foreseeable by the Seller, and Buyer and User assume the risk of any such use. Seller disclaims all other warranties express or implied, including any warranty of fitness or merchantability. To the extent consistent with applicable law, Seller shall not be liable for consequential, special or indirect damages arising from use or handling of this product and Seller’s sole liability and Buyer’s and User’s exclusive remedy shall be limited to refund of the purchase price.

This product is sold only for uses stated on its label.

In Case of Emergency: Call CHEMTREC: (800) 424-9300

Manufactured in the United States of America by:

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