



## RootShield® Granules

RootShield Granules is an organic biological fungicide that can be incorporated into your growing media to prevent a broad spectrum of root diseases and promote healthy root systems.

**Active Ingredient:** *Trichoderma harzianum* strain T-22

### Benefits & Features

- OMRI Listed
- Grows in soil and on roots, shields roots from pathogens
- Seeks out, attacks and eats fungal pathogens
- Induces host resistance
- Active over wide temperature range (48-97 °F/9-36 °C)
- Grows in a broad pH range (pH 4-8)
- Compatible with many chemical and biological inputs
- Well suited to a wide range of soil types
- Enhances nutrient uptake
- Helps plants resist/overcome abiotic stresses and transplant shock
- Excellent tool for fungicide resistance management
- Does not interfere with beneficial insects
- 0-day PHI with no MRL

### SUSTAINABLE. SIMPLE. SUPPORT.

For over 25 years, BioWorks has been helping our customers to develop effective and efficient programs using safer, sustainable products - backed by a personalized approach to support.

At BioWorks, we strive to simplify the use of biologicals with our ongoing commitment to information, education, and service.



### DISEASE CONTROL

RootShield Granules provides preventative control of major root diseases including *Pythium*, *Fusarium*, *Rhizoctonia*, *Cylindrocladium*, and *Thielaviopsis species*.

RootShield Granules controls disease for up to 12 weeks.



### HEALTHY ROOTS

RootShield Granules grows in soils and on roots shielding them against root damaging fungi, promoting healthier roots and increasing root mass potential.



### INTEGRATED PEST MANAGEMENT

RootShield Granules is an effective tool in IPM programs to help manage fungicide resistance.



## AN ORGANIC BIOFUNGICIDE FOR THE CONTROL OF ROOT DISEASES



### PRODUCT INFORMATION

- *Trichoderma harzianum* strain T-22
- Available Sizes: 10 lb, 40 lb, 500 lb & 1,000 lb
- Registered for use in the USA except ND

#### REI & PHI

- 4-hour REI, 0-day PHI

#### SHELF LIFE

Below 32 °F (0 °C):	12 months
Refrigerated 40 °F (4 °C):	9 months
70 - 75 °F (21 - 24 °C):	6 months
Above 75 °F (24 °C):	2 months or less



For use on greenhouse and nursery ornamentals, vegetables, herbs and fruits.

EPA registered: Reg. No. 68539-3

Est. No. 68539-NY-001

MPS Code: 3785/White



### APPLICATION NOTES

- Thoroughly incorporate RootShield Granules during mix preparation or pot filling, or incorporate into planting beds by raking or tilling.
- RootShield Granules is compatible with many soils and soilless media including peat-, bark- and coir-based mixes, as well as substrates used in hydroponic growing.

#### BLEND RATES

- Large volume blend rates are 1.25-1.5 lb/yd<sup>3</sup> of mix, or a minimum of three 40 lb bags per truckload of mix (100 yds<sup>3</sup>).
- If you prefer large-volume custom blending with your media, contact your mix company.
- The shelf life of RootShield Granules when blended at 1.5 lb/yd<sup>3</sup> is 3 months at below 32 °F, 5 months at 40 °F, 5 months at 70-75 °F, and 2 months or less above 75 °F.



### APPLICATION RATES

- In-furrow soil treatment: 2.5-6 lb/half acre  
*Use a metering device to deliver RootShield Granules into the planting furrow.*
- Greenhouse/Nursery Planting Mix: 1-3 lb/yd<sup>3</sup> soil mix  
Small volume rate: 3 Tbsp (25 g)/ft<sup>3</sup> of potting soil
- Container Topdress: See label for rate per container size
- Nursery Bed Application: 0.5-7.5 lb/1,000 sq.ft. bed  
*Incorporate with rake or tiller.*
- Trees and Shrubs: 0.2-8 oz/transplant hole

#### TECHNICAL SUPPORT

If you are a commercial grower with a question or if you want to discuss a particular issue, contact us.

Our team is ready to discuss your crop-specific issues or any questions you have about our products. We will provide you with rapid, comprehensive and personalized support.

**(800) 877-9443 or [expert@bioworksinc.com](mailto:expert@bioworksinc.com)**

#### THE STRAIN GAME

Not all biological strains are created equal. Strains from the same species can vary greatly in overall effectiveness. RootShield *Trichoderma* strain T-22 was selected from thousands for its exceptional ability to control a broad spectrum of soil-borne diseases under a wide range of conditions.