



# T22™ HC Biological Fungicide

T-22™ HC is a preventative biological fungicide for control of plant diseases. The active ingredient is a microbe, *Trichoderma harzianum* Strain T-22, which when applied to seeds, transplants or other propagative material, or to soil or planting mixes, grows onto plant roots as they develop and provides protection against plant root pathogens such as *Pythium*, *Rhizoctonia*, *Fusarium*, *Cylindrocladium* and *Thielaviopsis*. T-22 HC can be used alone or in conjunction with certain chemical fungicides; consult the T-22 HC compatibility chart for more information.

Where early season seed rot and seedling diseases are expected, use chemically treated seed or other appropriate measures for stand establishment and T-22 HC for root disease control.

**NOTE:** T-22 HC contains live spores of a microbe that must be used prior to disease onset. T-22 HC becomes active in soil or on plants when temperatures are above 50°F and is not effective while temperatures remain cold. T-22 HC can be applied to sterilized or fumigated soil but **MUST BE APPLIED AFTER** sterilization or fumigation

## FEATURES and BENEFITS:

- Protects roots from damage caused by *Pythium*, *Rhizoctonia* and *Fusarium*
- Treated root systems are stronger, healthier and have greater soil exploration and moisture uptake
- Compatible with other seed treatments and pesticides
- Greater crop stand preservation
- Enhances Nutrient Uptake
- Increased Stress Tolerance
- Potential Yield Increases
- Cost Effective
- Soil pH tolerant: 4-8
- OMRI Listed



## T-22 HC CHEMICAL COMPATIBILITY Recommendation:

T-22 HC is compatible with the many common seed treatments and can be applied before or after the application of the compound. Even though the active ingredient in T-22 HC is a fungus, extensive research has shown that it can be tank-mixed with many fungicides. For incompatible fungicides, the manufacturer recommends that strain T-22 be applied 7-10 days after chemical fungicide application. Refer to your dealer, sales representative, or [www.bioworksinc.com](http://www.bioworksinc.com) for a current chemical compatibility list. A partial list of chemicals tested follows:

Brand Name	Common Name
Allegiance	Metalaxyl
Apron XL	Mefenoxam
Baytan	Triadimenol
Captan	Captan
Gaicho	Imidacloprid
Lorsban	Chlopyrifos
Maxim	Fludioxonil
Orthene	Acephate
PCNB	Quintozene
Quadris	Azoxystrobin
Thiram	Thiram
Vitavax	Carboxin

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To find out more about the BioWorks family of products, please contact us at 800-877-9443 or visit [www.bioworksinc.com](http://www.bioworksinc.com). ©2012 BioWorks, Inc.

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## T-22 HC Application Rates:

Crop	Typical Seed size and Estimated Planting Rate			Typical Application Rate per Acre			
	Seeding Rate	Seeding Rate per Acre	Seeds per lb.	Bags of Seed treated with 1 lb. T-22	Acres per 1 lb. T-22	T-22 HC oz per cwt	T-22 oz per acre
Wheat	75 lb/acre	300,000	4,000	46 bags	30 A	0.7	0.52
Alfalfa	75 lb/acre	3,570,000	210,000	8 bags	24 A	4	0.68
Corn Field	18 lb/acre	28,000	1,600	16 bags	48 A	2	0.35
Corn; silage	18 lb/acre	28,000	1,600	16 bags	48 A	2	0.35
Corn; sweet	11 lb/acre	27,500	2,500	500 lbs	45 A	3	0.33
Cotton	12 lb/acre	55,000	4,600	230K bag	44 A	3	0.36
Peanuts	100 lb/acre	75,000	750	21 bags	11A	1.5	1.5
Popcorn	10 lb/acre	27,500	2,750	11 bags	53A	3	0.3
Sorghum	3.6 lb/acre	50,000	14,000	16 bags	224A	2	0.07
Soybeans	60 lb/acre	180,000	3,000	21 bags	18A	1.5	0.9
Sugar Beets	1.4 lb/acre	57,000	42,000	86 x 100K units	147A	8	0.11
Sunflower	5 lb/acre	20,000	4,000	11 bags	107A	3	0.15

## Application Instructions for T22 HC:

**Planter Box:** Measure appropriate amount of T-22 HC and blend with seed in the planter box.

**Bulk Seed Systems:** T-22 HC can be added to seed flow when using bulk seed filling systems. Disperse appropriate amount into auger or conveyor systems, typically at the hopper, when filling planting equipment. Mechanical applicators such as the Enviropac dry applicator can be used.

**Infurrow or liquid slurry application:** T-22 HC can be slurried and suspended in water or compatible seed treatments and liquid fertilizers. Many products are compatible but check with your BioWorks representative to be sure. Agitation is recommended to avoid settling. Follow all precautions listed on the label.

**This product should not be tank mixed with chemicals that contain the following active ingredients: benomyl, imazilil, propiconazole, tebuconazole, and triflumizole.** Do not apply T-22 HC immediately before these pesticides are used.