68539-4 8/20/2004 Page 1718 T-22 WP

Biological Fungicide

(Alternate Brand Names: PlantShield® HC Biological Foliar and	Root Fungi	cide; 1-2.
Planter Box Biological Fungicide; T-22 HC Biological Fungicide; Re	ootShield®	Home, an
Garden Biological Fungicide; Invigorate™)		***
ACTIVE INGREDIENT:		•
Trichoderma harzianum Rifai strain KRL-AG2*1.15%	••••	•••••
OTHER INGREDIENTS: <u>98.85</u> %	•	••••••
ΓΟΤΑL: 100.00%	••••	•
*Contains at least 1.0 x 10 ⁷ colony forming units per gram dry weight.		•••••

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID		
If in eyes	 Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice. 	
Have the	product container or label with you when calling a poison control center or doctor, or going for treatment.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Avoid contact with skin or eyes. Avoid breathing dust.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear: a) long sleeved shirt and long pants; b) shoes plus socks; c) when dumping or opening bags, or other operations where dusts may be created, wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with an appropriate N-95, R-95, P-95 or HE filter for biological products. Follow manufacturer's directions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

ENVIRONMENTAL HAZARDS

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

EPA Reg. No.: EPA Est. No.:	68539-4 068539-NY-001	ACCEPT
Manufactured by:	BioWorks, Inc., 122 North Genesee Street, Geneva, New York 14456	AUG 2 0 2004
Net Contents: Lot No.: Use Before:		Under the Pederal Insectic Pungleide, and Rodenticid as amended, for the pestic registered under 6853 EPA Reg. No. 6853

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DIRECTIONS FOR USE

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It is 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 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 170. 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. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

For enclosed environments:

There is a restricted entry of one (1) hour for this product when applied as a foliar application via spraying to growing plants in enclosed environments such as glasshouses and greenhouses. PPE requirement for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water, is coveralls over long sleeved shirt and long pants, and shoes plus socks.

There is a restricted entry of zero (0) hours for this product when applied as a soil application via soil drench, in-furrow spray, transplant starter solution, dip, soak, chemigation or other non-spraying or non-dusting foliar application methods when used in enclosed environments such as glasshouses and greenhouses.

For field applications:

Keep unprotected persons out of treated areas until sprays have dried or dusts have settled.

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are **not** within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Keep unprotected persons out of treated areas until sprays have dried or dusts have settled.

GENERAL INFORMATION

T-22 WP is a preventative biological fungicide for control of plant diseases. The active ingredient is a microbe, *Trichoderma harzianum* Strain T-22 (KRL-AG2), 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*. In the greenhouse, T-22 WP is a preventative that suppresses foliar pathogens such as *Botrytis* and mildews. T-22 WP can be used alone or in conjunction with certain chemical fungicides; consult T-22 WP compatibility chart, tank mix compatibility charts below or the company for more information. This product should not be tank mixed with chemicals that contain the following active ingredients: benomyl, imazilil, propicanazole, tebuconazole, and triflumizole. Do not apply T-22 WP immediately before these pesticides are used. Where early season seed rot and seedling diseases are expected, use chemically treated seed or other appropriate measures for stand establishment and T-22 WP for root disease control.

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

This biological fungicide is for use in soil applications (drench, in soil furrow, potting soil and broadcast), seed treatments and greenhouse foliar applications in or on all raw agricultural commodities, food and fiber crops, ornamentals, landscape plants, turf, and trees, including tree seedlings for transplanting into the forest.

NOTE: DO NOT APPLY to sugarcane, pechay, rice, mushrooms, kiwi, tobacco, barley, oats, lemon, apple, and chickpea. Not for use on aquatic crops.

APPLY VIA GROUND APPLICATION ONLY.

CROPS ON WHICH T-22 WP MAY BE USED:

Agronomic Row or Other Field Crops: Buckwheat, Beans (soybean, snap, dry), Corn (grain, seed, sweet corn, silage, popcorn, high oil), Cotton, Canola, Peas (dry, succulent), Peanuts, Safflower, Sunflower Alfalfa Hay and Forage Crops: Alfalfa, Clover, Vetch, Trefoil Berries and Small Fruits: Blackberries, Blueberries, Currants, Elderberries, Currants, Elderberries, Loganberries, Raspberries, Strawberries, Grapes Cuttings/bare root Greenhouse drench Nursery drench In-furrow spray or transplant starter solution Home & Garden drench Greenhouse foliar spray Greenhouse chemigation Cuttings/bare root 0.25–5.0 lbs. / 5 gal or dip into dry powder. 1.0 – 32.0 oz / 100 gal 1.0 – 32.0 oz / 100 gal 1.0 – 32.0 oz / 100 gal 1.0 – 32.0 oz / 2 cre 1.0 – 32.0 oz / 100 gal 1.0 – 32.0 oz / 2 cre Strawberries, Grapes Bulb Crops: Garlic, Leeks, Onions, Shallots Dust Home & Garden Home & Garden O.03 – 3.0 lbs. / cwt. seed	CROPS	USE USE	RATE
Field Crops: Buckwheat, Beans (soybean, snap, dry), Corn (grain, seed, sweet corn, silage, popcorn, high oil), Cotton, Canola, Peas (dry, succulent), Peanuts, Safflower, Sunflower Alfalfa Hay and Forage Crops: Alfalfa, Clover, Vetch, Trefoil Berries and Small Fruits: Blackberries, Blueberries, Currants, Elderberries, Gooseberries, Huckleberries, Loganberries, Grapes Cuttings/bare root Greenhouse drench Nursery drench In-furrow spray or transplant starter solution Home & Garden drench Greenhouse foliar spray Greenhouse chemigation Bulb Crops: Garlic, Leeks, Commercial seed treatment 0.00035 – 26.43 lbs. / cwt. seed			
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Corn (grain, seed, sweet corn, silage, popcorn, high oil), Cotton, Canola, Peas (dry, succulent), Peanuts, Safflower, Sunflower Alfalfa Hay and Forage Crops: Alfalfa, Clover, Vetch, Trefoil Berries and Small Fruits: Blackberries, Blueberries, Currants, Elderberries, Gooseberries, Huckleberries, Loganberries, Raspberries, Strawberries, Grapes Cuttings/bare root Cuttings/bare root Greenhouse drench Nursery drench In-furrow spray or transplant starter solution Home & Garden drench Greenhouse foliar spray Greenhouse chemigation Bulb Crops: Garlic, Leeks, Dust 1.0 – 10.0 oz / cwt. seed 0.00035 – 26.43 lbs. / cwt. seed 0.00035 – 26.43 lbs. / cwt. seed 1.0 – 32.0 oz / 100 gal	_	Commercial seed treatment	0.0003 20.15 150.7 0 W. Seed
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Trefoil Berries and Small Fruits: Blackberries, Blueberries, Currants, Elderberries, Gooseberries, Huckleberries, Loganberries, Raspberries, Strawberries, Grapes Cuttings/bare root Greenhouse drench Nursery drench In-furrow spray or transplant starter solution Home & Garden drench Greenhouse foliar spray Greenhouse chemigation Bulb Crops: Garlic, Leeks, Cuttings/bare root 0.25–5.0 lbs. / 5 gal or dip into dry powder. 1.0 – 32.0 oz / 100 gal 1.0 – 32.0 oz / acre 1.0 – 32.0 oz / acre 1.0 – 3.0 tbsp. / gal 0.1 – 1.0 oz / gal every 7–14 days 1.0 – 32.0 oz / 100 gal			
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Blackberries, Blueberries, Currants, Elderberries, Gooseberries, Huckleberries, Loganberries, Raspberries, Strawberries, Grapes In-furrow spray or transplant starter solution Home & Garden drench Greenhouse foliar spray Greenhouse chemigation Bulb Crops: Garlic, Leeks, Dust into dry powder. 1.0 - 32.0 oz / 100 gal 1.0 - 32.0 oz / 2 cre 1.0 - 32.0 oz / 3 cre	Treion		
Blackberries, Blueberries, Currants, Elderberries, Gooseberries, Huckleberries, Loganberries, Raspberries, Strawberries, Grapes In-furrow spray or transplant starter solution Home & Garden drench Greenhouse foliar spray Greenhouse chemigation Bulb Crops: Garlic, Leeks, Greenhouse drench Nursery drench In-furrow spray or transplant starter solution Home & Garden drench Greenhouse foliar spray Greenhouse chemigation 1.0 – 32.0 oz / 100 gal 1.0 – 32.0 oz / gal every 7–14 days 1.0 – 32.0 oz / 100 gal 1.0 – 32.0 oz / 100 gal			
Currants, Elderberries, Gooseberries, Huckleberries, Loganberries, Raspberries, Strawberries, Grapes Greenhouse drench Nursery drench In-furrow spray or transplant starter solution Home & Garden drench Greenhouse foliar spray Greenhouse chemigation 1.0 - 32.0 oz / 100 gal 1.0 - 32.0 oz / acre		Cuttings/bare root	
Gooseberries, Huckleberries, Loganberries, Raspberries, Strawberries, Grapes Nursery drench In-furrow spray or transplant starter solution Home & Garden drench Greenhouse foliar spray Greenhouse chemigation Bulb Crops: Garlic, Leeks, Dust 1.0 - 32.0 oz / 100 gal 1.0 - 32.0 oz / acre 1.0 - 32.0 oz /			1 7 2
Loganberries, Raspberries, Strawberries, Grapes In-furrow spray or transplant starter solution Home & Garden drench Greenhouse foliar spray Greenhouse chemigation Bulb Crops: Garlic, Leeks, Dust 1.0 – 32.0 oz / acre 1.0 – 3.0 tbsp. / gal 0.1 – 1.0 oz / gal every 7–14 days 1.0 – 32.0 oz / 100 gal	, ,	1	
Strawberries, Grapes starter solution Home & Garden drench Greenhouse foliar spray Greenhouse chemigation Bulb Crops: Garlic, Leeks, Dust starter solution 1.0 – 3.0 tbsp. / gal 0.1 – 1.0 oz / gal every 7–14 days 1.0 – 32.0 oz / 100 gal	7	1	· · · · · · · · · · · · · · · · · · ·
Home & Garden drench Greenhouse foliar spray Greenhouse chemigation 1.0 – 3.0 tbsp. / gal 0.1 – 1.0 oz / gal every 7–14 days 1.0 – 32.0 oz / 100 gal Bulb Crops: Garlic, Leeks, Dust 0.03 – 3.0 lbs. / cwt. seed			1.0 – 32.0 oz / acre
Greenhouse foliar spray Greenhouse chemigation 0.1 – 1.0 oz / gal every 7–14 days 1.0 – 32.0 oz / 100 gal Bulb Crops: Garlic, Leeks, Dust 0.03 – 3.0 lbs. / cwt. seed	Stawberries, Grapes	I	1.0 – 3.0 tbsp. / gal
Greenhouse chemigation days 1.0 - 32.0 oz / 100 gal Bulb Crops: Garlic, Leeks, Dust 0.03 - 3.0 lbs. / cwt. seed		· · · · · · · · · · · · · · · · · · ·	
Bulb Crops: Garlic, Leeks, Dust 1.0 - 32.0 oz / 100 gal 0.03 - 3.0 lbs. / cwt. seed			
Bulb Crops: Garlic, Leeks, Dust 0.03 – 3.0 lbs. / cwt. seed		Greenhouse chemigation	T 7
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	Bulb Crops: Garlic, Leeks,	Dust	0.03 – 3.0 lbs. / cwt. seed
		Home & Garden	1.0 - 3.0 tbsp. / gal
		,	_
Citrus Fruits: Cuttings or bare-roots 0.25 - 5.0 lbs. / 5 gal or dip	Citrus Fruits	Cuttings or bare-roots	0.25 5.0 lbs. / 5 gal or dip
Citrus Hybrids, Grapefruit, into dry powder.	1	Carrings of Carr 10000	

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Kumquat, Limes, Oranges,	Greenhouse drench	1.0 - 32.0 oz / 100 gal
Pummelos	Nursery drench	1.0 - 32.0 oz / 100 gal
	In-furrow spray or transplant	1.0 - 32.0 oz / acre
	starter solution	
1	Greenhouse foliar spray	0.1 - 1.0 oz / gal every 7–14
	Greenhouse remai spray	days
	Casalanas abomication	1 -
	Greenhouse chemigation	1.0 - 32.0 oz / 100 gal
	·	
Cucurbit Vegetables:	Planter Box (on-site)	1.0 – 10.0 oz. / cwt. seed
Cucumbers, Melons, Gourds	Commercial seed treatment	0.00035 – 26.43 lbs. / cwt. seed
Pumpkins, Squash	Greenhouse drench	1.0 - 32.0 oz. / 100 gal
	In-furrow spray or transplant	1.0 - 32.0 oz. / acre
	starter solution	
	Home & Garden drench	1.0 - 3.0 tbsp. / gal
1	Greenhouse foliar spray	0.1 - 1.0 oz / gal every 7–14
	Greenhouse Ioliar spray	1
		days
	Greenhouse chemigation	1.0 - 32.0 oz / 100 gal
	<u> </u>	
Flowers, Bedding Plants, and	Cuttings or bare-roots	0.25 – 5.0 lbs. / 5 gal or dip
Ornamentals	1	into dry powder.
	Commercial seed treatment	0.088 – 17.62 lbs. / cwt. seed
	Greenhouse drench	1.0 - 32.0 oz / 100 gal
1	Nursery drench	1.0 - 32.0 oz / 100 gal
		·
}	Home & Garden drench	1.0 – 3.0 tbsp. / gal
	Greenhouse foliar spray	0.1 - 1.0 oz / gal every 7-14
		days
	Greenhouse chemigation	1.0 - 32.0 oz / 100 gal
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Fruiting Vegetables:	Commercial seed treatment	0.00035 - 26.43 lbs. / cwt. seed
Eggplant, Sweet and Hot	Greenhouse drench	1.0 - 32.0 oz / 100 gal
Peppers, Tomatillos, Tomatoes	In-furrow spray or transplant	1.0 – 32.0 oz / acre
Teppers, Tomatmos, Tomatoes	starter solution	1.0 - 32.0 02 / acre
•		10 2045 (-1
	Home & Garden	1.0 – 3.0 tbsp. / gal
	Greenhouse foliar spray	0.1 - 1.0 oz / gal every 7-14
		days
	Greenhouse chemigation	1.0 – 32.0 oz / 100 gal
Herbs, Spices, and Mints	Commercial seed treatment	0.00035 - 26.43 lbs. / cwt. seed
	Greenhouse drench	1.0 – 32.0 oz / 100 gal
	In-furrow spray or transplant	1.0 – 32.0 oz / acre
	starter solution	2.0 02.0 02.
	Home & Garden	10-30 then / col
	,	1.0 – 3.0 tbsp. / gal
	Greenhouse foliar spray	0.15 – 1.0 oz / gal every 7–14
		days
	Greenhouse chemigation	1.0 - 32.0 oz / 100 gal

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Hydroponic Crops: Cucumbers, Tomatoes, Lettuce, Herbs and Spices	Greenhouse drench In-furrow spray or transplant starter solution Home & Garden Greenhouse foliar spray Greenhouse chemigation	1.0 – 32.0 oz / 100 gal 1.0 – 32.0 oz / acre 1.0 – 3.0 tbsp. / gal 0.15 – 1.0 oz / gal every 7–14 days 1.0 – 32.0 oz / 100 gal
Leafy Vegetables and Cole Crops: Arugula, Celery, Chervil, Endive, Fennel, Lettuce (head and leaf), Parsley, Radicchio, Rhubarb, Spinach, Swiss Chard, Broccoli, Brussels Sprouts, Cabbage, Cauliflower, Collards, Kale, Kohlrabi, Mustard Greens, Asparagus	Cuttings or bare-roots Commercial seed treatment Greenhouse drench In-furrow spray or transplant starter solution Home & Garden drench	0.25 - 5.0 lbs. / 5 gal or dip into dry powder. 0.00035 - 26.43 lbs. / cwt. seed 1.0 - 32.0 oz / 100 gal 1.0 - 32.0 oz / acre 1.0 - 3.0 tbsp. / gal
Legume Vegetable and Field Crops: Snap and Dry Beans, Lentils, Succulent and Dry Peas, Peanuts, Soybeans	Planter Box (Onsite) Commercial seed treatment Home & Garden	1.0 - 10.0 oz / cwt. seed 0.00035 - 26.43 lbs. / cwt. seed 1.0 - 3.0 tbsp. / gal
Pome Fruit: Pears, Quince	Greenhouse drench Nursery drench In-furrow spray or transplant starter solution Home & Garden Greenhouse foliar spray Greenhouse chemigation	1.0 - 32.0 oz / 100 gal 1.0 - 32.0 oz / 100 gal 1.0 - 32.0 oz / acre 1.0 - 3.0 tbsp. / gal 0.15 - 1.0 oz / gal every 7-14 days 1.0 - 32.0 oz / 100 gal
Root Crops: Beets, Sugarbeets, Red Beets, Carrots, Celeriac, Chicory, Horseradish, Parsnip, Radish, Rutabaga, Salsify, Turnips	Planter Box (Onsite) Commercial seed treatment	1.0 – 10.0 oz / cwt. seed 0.00035 – 26.43 lbs. / cwt. seed
Shadehouse and Outdoor Nursery Crops: Deciduous trees (Maple, Oak, etc.), Ornamentals, Grapes, Citrus, Pine	Cuttings or bare-roots Greenhouse drench Nursery drench In-furrow spray or transplant starter solution Home & Garden	0.25 - 5.0 lbs. / 5 gal or dip into dry powder. 1.0 - 32.0 oz / 100 gal 1.0 - 32.0 oz / 100 gal 1.0 - 32.0 oz / acre 1.0 - 3.0 tbsp. / gal

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Greenhouse foliar spray	0.1 – 1.0 oz / gal every 7–14
	days
Greenhouse chemigation	1.0 – 32.0 oz / 100 gal
Planter Box (Onsite)	1.0 - 10.0 oz / cwt. seed
Commercial seed treatment	0.00035 – 26.43 lbs. / cwt. seed
Cuttings or bare-roots	0.25 - 5.0 lbs. / 5 gal or dip into dry powder.
Greenhouse drench	1.0 - 32.0 oz / 100 gal
Nursery drench	1.0 - 32.0 oz / 100 gal
In-furrow spray or transplant	1.0 – 32.0 oz / acre
	1.0 – 3.0 tbsp. / gal
1	0.15 - 1.0 oz / gal every 7-14
	days
Greenhouse chemigation	1.0 – 32.0 oz / 100 gal
Cuttings or bare-roots	0.25 - 5.0 lbs. / 5 gal or dip into dry powder.
Greenhouse drench	1.0 - 32.0 oz / 100 gal
Nursery drench	1.0 - 32.0 oz / 100 gal
In-furrow spray or transplant starter solution	1.0 - 32.0 oz / acre
Home & Garden	1.0 - 3.0 tbsp. / gal
Greenhouse foliar spray	0.15 – 1.0 oz / gal every 7–14
	days
Greenhouse chemigation	1.0 - 32.0 oz / 100 gal
Planter Box (Onsite)	0.03 – 3.0 oz. / cwt. seed
Planter Box (Onsite) Commercial seed treatment	1.0 – 10.0 oz / cwt. seed 0.088 – 17.62 lbs. / cwt. seed
	Greenhouse chemigation Planter Box (Onsite) Commercial seed treatment Cuttings or bare-roots Greenhouse drench Nursery drench In-furrow spray or transplant starter solution Home & Garden Greenhouse foliar spray Greenhouse chemigation Cuttings or bare-roots Greenhouse drench Nursery drench In-furrow spray or transplant starter solution Home & Garden Greenhouse foliar spray Greenhouse foliar spray Greenhouse chemigation Planter Box (Onsite)

SEED TREATMENT FOR TRUE SEED CROPS

ONSITE APPLICATION TO SEED: T-22 WP biological fungicide is applied to seeds at the rate of 1.0 - 10.0 ounces per hundredweight (oz/cwt) for protection against root diseases. For example, for large, smooth seeds such as soybean or dry bean, apply 1.0 - 8.0 oz/cwt of seed. For smaller or rougher seed such as peas, or corn, apply 1.0 - 8.0 oz/cwt. For sweet corn, apply 1.0 - 10.0 oz/cwt. To assure uniform application, add half the required amount of T-22 WP to half the seed in the hopper, mix with a wooden paddle, and then add the remaining seed and T-22 WP. T-22 WP can be applied in sufficient water to coat seeds. For maximum seed protection, especially in cold soils, apply T-22 WP to commercially treated seed such as seed treated with Captan, Apron and or Demosan for stand establishment. Consult T-22 WP compatibility chart for detailed information.

COMMERCIAL SEED TREATMENT: T-22 WP may be applied as a slurry, a coating, in a pellet, or during seed priming. User must add an EPA-approved dye, imparting an unnatural color to the seed, to T-22 WP during the seed treatment process. Product is formulated at 1.0 X 10⁹ CFU/gm and should be applied to deliver the recommended CFU/seed. See table below.

AGRICULTURAL CROPS

Seed Size (#seeds/oz.)	CFU/seed	Gm/lb. of seed
Large (1-100)	100,000 - 200,000	.001632 g
e.g. peanuts, beans,		
green & dry, field corn	:	
Medium (100-1000)	50,000 - 150,000	.08 2.4 g
e.g. sweet corn,		
soybeans, sorghum		
Small (1000-10,000)	25,000 – 100,000	0.4 - 16 g
e.g. cabbage,		
cucumbers, sugar		
beets		
Fine (10,000-100,000)	10,000 - 75,000	1.6 – 120 g
e.g. tomatoes		

ORNAMENTAL CROPS

Seed Size (#seeds/oz.)	CFU/seed	Gm/lb. of seed
Small (1,000 – 10,000)	25,000 – 100,000	0.4 – 16 g
e.g. Echinacea, Cosmos	:	
Fine (10,000 – 100,000)	10,000 – 75,000	1.6 – 120 g
e.g. Texas bluegrass, ryegrass		
Very fine (100,000 500,000)	5,000 – 10,000	8.0 – 80 g
e.g. bentgrass	:	

VEGETATIVELY PROPAGATED CROPS, INCLUDING POTATOES, OTHER TUBERS AND BULBS: For planting or storage, treat at 0.03 - 3 ounces T-22 WP to 100 lbs (1 cwt) of bulbs or cut potato seed pieces. Apply to seed pieces or bulbs so surfaces are thoroughly covered with dust or aqueous suspension.

For potatoes, T-22 WP should be used with compatible chemical seed dusts. Consult T-22 WP compatibility chart for detailed information. All surfaces, knives, and other equipment used to cut and plant potatoes should be thoroughly sterilized before cutting and planting and at regular intervals. The cut and treated seed pieces may be held for a week or more at cool temperatures, 45-50°F, and high relative humidity to promote suberization, however, they may be planted immediately.

CUTTINGS OR BARE ROOTED TRANSPLANTS: Dip cuttings or transplants in T-22 WP dry powder or in a suspension of 0.25 - 5.0 pounds T-22 WP in 5 gallons of water. Plant treated cuttings or transplants in potting mix or soil in the usual manner.

GREENHOUSE DRENCH: Suspend 1.0 - 32.0 ounces T-22 WP in 100 gallons of water with agitation and apply as a drench to greenhouse planting mixes. For seeding flats or shallow (up to 4-inch depth) beds or pots, apply at a rate of 50 - 100 gallons per 800 square feet. For deeper beds or pots, apply at a rate of 100 gallons per 400 square feet, or at the rate of 1/2 - 1 cup (4 - 8 fl. ounces) per pot. T-22 WP can be applied through low pressure watering nozzles such as fan nozzles, through overhead boom type sprayers or sprinklers, or other drench watering systems. Constant agitation is required to maintain T-22 WP in suspension. T-22 WP can be tank mixed and is compatible with many commonly used fungicides, liquid fertilizers, herbicides, insecticides and biological control products registered for use on greenhouse/ornamental plants. If tank mixes are desired, observe all directions, precautions and limitations on labeling of all products used. Consult the tank mix compatibility chart below or the company for more information.

NURSERY DRENCH: Suspend 1.0 - 32.0 ounces T-22 WP in 100 gallons water with agitation and apply as a drench to container nursery crops. T-22 WP may be applied through handheld or backpack sprayers. Maintain constant agitation. For shallow pots (up to 4 inch depth), apply at a rate of 50 - 100 gallons per 800 square feet. For deeper pots, apply at a rate of 100 gallons per 400 square feet, or at the rate of 1/2 - 1 cup (4 - 8 fl. ounces) per pot.

IN-FURROW SPRAY OR TRANSPLANT STARTER SOLUTION: Apply as an in-furrow spray or transplant starter solution at a rate of 1.0 - 32.0 ounces/acre in sufficient water to achieve uniform application. Maintain constant agitation. T-22 WP can be tank mixed with certain fertilizers and pesticides; consult tank mix compatibility chart above for detailed information.

TANK MIXING: T-22 WP can be tank mixed and is compatible with many commonly used fungicides, liquid fertilizers, herbicides, insecticides and biological control products registered for use on greenhouse/ornamental plants. If tank mixes are desired, observe all directions, precautions and limitations on labeling of all products used. Consult the tank mix compatibility chart below or the company for more information. This product should not be tank mixed with chemicals that contain the following active ingredients: benomyl, imazilil, propicanazole, tebuconazole, and triflumizole. Do not apply T-22 WP immediately before these pesticides are used.

This product can be mixed with the specific products, their percentages and rates for use in nursery drench, in-furrow spray or transplant starter solution, as listed in the tables below in accordance with the most restrictive of label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

COMPATIBILITY FOR DRENCH, IN-FURROW SPRAY OR TRANSPLANT STARTER SOLUTION TANK MIX:

Chemical Name	% A.I. Formulation	Product Name	Product Rate	Dilution
Captan	85%, Wettable Powder	Captan 85WP	1.88lb./Acre	0.1 oz./gal.
Chlorothalonil	82.5% Water Dispersible Granules	Daconil Ultrex	3.7 ounces per 1000 ft ²	0.56 oz./gal.
Iprodione	23.3%, Flowable	Chipco 26019 Flo	4 ounces per 1000 ft ²	0.6 oz./gal.
Thiophanate methyl	50%, Wettable Powder	Cleary's 3336 in water soluble bags	8 ounces per 1000 ft ²	1.2 oz./gal.
Iprodione	50%, Soluble Granules	Rovral	0.75 lb./Acre	0.04 oz./gal.
Metalaxyl	21.3%, Liquid	Subdue Maxx	0.25 ounces per 800 ft ² .	0.05 oz./gal.
Chlorpyrifos	50%, Emulsifiable Liquid	Lorsban 4E	3.2 ounces per gallon	3.2 oz./gal.

HOME & GARDEN: For preventative control of root diseases of vegetable, flower, and ornamental plants. For drench application to seeds, mix 1 to 3 tablespoons of T-22 WP per gallon of water and apply with a watering can or other device to 25 feet of planting furrow before covering the seeds with soil.

For transplants, mix 1 to 3 tablespoons of T-22 WP per gallon of water and apply 1/2 - 1 cup (4 - 8 fl.) ounces) per plant at transplanting. For new plant beds, mix 1 - 3 tablespoons of T-22 WP and apply at a rate of one gallon per 25 square feet. For established beds or potted plants, mix 1 - 3 tablespoons T-22 WP per gallon and apply at a rate of one gallon per 25 square feet of plant bed or 1/2 - 1 cup (4 - 8 fl.) ounces) per 4 - 8 inch pot. T-22 WP is designed for application to seeds, plant roots and soil for control of plant root diseases and not for spray application to foliage or fruit.

GREENHOUSE FOLIAR SPRAY: For preventative control of *Botrytis*, powdery mildew, and other fungal pathogens on greenhouse crops, apply to foliage and blossoms every 7 - 14 days depending on disease pressure. T-22 WP can be applied 7 - 10 days after application of a chemical/biorational fungicide. Consult manufacturer or sales representative for specific product recommendations.

In general, apply at a rate of 0.15 – 1.0 oz per gallon of water. Use a quantity of spray sufficient to thoroughly cover foliage. Crop size, spray equipment and local practice will determine the volume of water needed. Spray to wet, but avoid runoff. T-22 WP can be applied using hand-held backpack or ground spray equipment. Do not use in low-volume sprayers. Prepare the tank mix with the recommended rate of a non-ionic spreader sticker such as Latron B 1956, one of the Triton materials, or another quality, alkyl arylpolyethoxylate-based surfactant. Agitation is required to maintain suspension. Application equipment should be cleaned before use of this product, and prepared sprays should be used within 4 hours of preparation. To prevent nozzle tip clogging the manufacturer recommends using 50 - 100 mesh inlet screens in all spray equipment.

TANK MIXING: T-22 WP can be tank mixed and is compatible with many commonly used fungicides, liquid fertilizers, herbicides, insecticides and biological control products registered for use on greenhouse/ornamental plants. If tank mixes are desired, observe all directions, precautions and limitations on labeling of all products used. Consult the tank mix compatibility chart below or the

company for more information. This product should not be tank mixed with chemicals that contain the following active ingredients: benomyl, imazilil, propicanazole, tebuconazole, and triflumizole. Do not apply T-22 WP immediately before these pesticides are used.

This product can be mixed with the specific products, their percentages and rates for use in foliar sprays, as listed in the tables below in accordance with the most restrictive of label limitations and precautions. No label dosage rates should be exceeded. This product cannot be mixed with any product containing a label prohibition against such mixing.

COMPATIBILITY FOR FOLIAR TANK MIX:

Chemical Name	% A.I., Formulation	Product Name	Product Rate	Dilution
Captan	85%, Wettable Powder	Captan 85WP	1.88lb./Acre	0.1 oz./gal.
Chlorothalonil	82.5% Water Dispersible Granules	Daconil Ultrex	3.7 ounces per 1000 ft ²	0.56 oz./gal.
Iprodione	23.3%, Flowable	Chipco 26019 Flo	2 ounces per 1000 ft ²	0.3 oz./gal.
Triadimefon	25%, Soluble Granules	Bayleton 25 Turf & Ornamental Fungicide	0.75 ounces per 1000 ft ²	0.11 oz./gal.
Azoxystrobin	50%, Soluble Granules	Heritage	0.4 ounces per 1000 ft ²	0.06oz/gal.
Vinclozolin	50%, Wettable Powder	Ronilin DF	0.75 lb./Acre	0.04 oz./gal.
Iprodione	50%, Soluble Granules	Rovral	0.75 lb./Acre	0.04 oz./gal.

To reduce potential residue and minimize clogging of spray equipment the manufacturer recommends the following decanting procedure. Place one gallon of water in a container. Add the desired nonionic spreader-sticker. Mix. Based on the final spray volume, add appropriate amount of T-22 WP. Let the solution sit for 10 minutes. Agitate for 10 minutes. Let the solution sit for less than one minute. Pour off the liquid that now contains Strain T-22 into the spray tank. Add a small amount of water to the settled material in the container to remove any remaining Strain T-22. Briefly mix and let solution sit for less than one minute. Pour off liquid into the spray tank. Bring spray volume to the desired level.

GREENHOUSE CHEMIGATION: Suspend 1.0 - 32.0 ounces T-22 WP in 100 gallons of water with agitation and apply through the following systems: 1) overhead boom-type sprayers, mist-type irrigation systems, or sprinklers such as impact or micro-sprinklers, 2) pressurized drench (flood) or drip (trickle) systems, 3) micro-irrigation such as spaghetti-tube or individual tube irrigation, 4) hand-held calibrated irrigation equipment such as the hand-held wand with injector, 5) ebb and flow systems.

The following precautions must be observed when using this product in any type of irrigation system:

Do not apply this product through any other type of irrigation equipment.

Lack of effectiveness or crop injury can result from non-uniform distribution of treated water.

Do not connect an irrigation system, (including greenhouse system), used for pesticide application to a public water system unless the pesticide safety systems for public water systems are in place.

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If you have questions about calibration, you should contact State Extension specialists, equipment manufacturers or other experts.

A person knowledgeable of the chemigation system and responsible for its operation, or under supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

PLANT SAFETY: T-22 WP has been tested on numerous plant varieties with no phytotoxic effects. However, since T-22 WP has not been tested on all plant varieties or in combination with all available tank mixes the manufacturer recommends testing T-22 WP on a small number of plants to check for adverse plant effects before applying to a larger number of plants.

STORAGE AND DISPOSAL (Agricultural Use)

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

STORAGE: Store in a cool, dry place. Do not store near food or feed commodities. Do not store at temperatures above 75°F for prolonged periods. Keep container tightly closed when not in use.

DISPOSAL: Do not contaminate food or feed by disposal. Wastes resulting from the use of this product may be disposed of on-site or at an approved waste disposal facility. Do not reuse container. Dispose of empty container in a sanitary landfill, or by incineration, or by open burning if allowed by state and local authorities. If burned, keep out of smoke.

STORAGE AND DISPOSAL (Residential; Home and Garden Use)

STORAGE: Store original container in a cool dry and locked place inaccessible to children and pets. Do not contaminate food or feed during storage. Do not store at temperatures above 75°F for prolonged periods. Keep container tightly closed when not in use.

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DISPOSAL: If empty – Do not reuse this container. Place in trash or offer for recycling if available. If **partly filled** – Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain..

NOTICE TO BUYER AND SELLER: Seller warrants that this product conforms to the description on the label and is reasonable 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 permitted by state law, Seller shall not be liable for consequential, special or indirect damages resulting 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. No express or implied license is granted to use or sell this product under any patent in any country except as specified.

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