

68539-4

8/7/2012

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

AUG 07 2012

Ms Jamie Aggas
Regulatory Coordinator for BioWorks Inc
100 Rawson Road Suite 205
Victor NY 14564

Re BioWorks Inc T 22 WP Biological Fungicide
EPA Registration No 68539 4
Minor Label (Fast Track) Amendment
Submissions dated 06/22/2012 and 08/06/2012
Decision No 467061

Dear Ms Aggas

The U S Environmental Protection Agency (EPA) reviewed your request to amend the subject product registration which included the following changes to the product label

- 1) Correction of minor formatting inconsistencies and typographical errors
2) Addition of the following labeling text to account for small containers
a) See attached label booklet for First Aid Precautionary Statements Storage and Disposal Instructions and Directions for Use
b) See foldout panel for First Aid
c) See foldout panel for Directions for Use
3) Addition of BioWorks phone number to the contact information
4) Addition of another container size (1 e 2 63 oz) to the options already provided in the Net Weight statement
5) Replacement of Use Before with Expiration Date (re product stability)
6) Modification of one statement in the Warranty and Disclaimer section to comport with information presented in Chapter 12 Section IX of the Label Review Manual
7) Addition of a consumer access number for CHEMTREC
8) Addition of information presenting where the product is made and BioWorks company logo

Some of these changes were proposed with a notification request (Decision No 468010) that was submitted to EPA on June 18 2012 Such changes are now considered to be part of this label amendment

CONCURRENCES

Table with columns for SYMBOL, SURNAME, DATE and several empty columns. Handwritten entries include 7511P, KAUSCH, 08/07/2012, 8/7/12, and 8/7/12.

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Jamie Aggas
EPA Registration No 68539 4

All the changes referred to above submitted in connection with registration under section 3(c)(5) of the Federal Insecticide Fungicide and Rodenticide Act are acceptable provided that you submit two (2) copies of your final printed labeling before you release the product for shipment Refer to the A 79 enclosure for further description of final printed labeling

Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions If you have any questions regarding this letter please contact Ms Jeannine Kausch by telephone (703 347 8920) or email (*kausch.jeannine@epa.gov*)

A stamped copy of the label is enclosed for your records

Sincerely



Kimberly Nesci Acting Chief
Microbial Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511P)

Enclosures (1) T 22 WP Biological Fungicide Accepted Label
(2) A 79 Enclosure

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T-22 WP Biological Fungicide

(Alternate Brand Names PlantShield® HC Biological Foliar and Root Fungicide PlantShield® HC Biological Fungicide T 22™ Planter Box Biological Fungicide T 22™ HC Biological Fungicide RootShield® Home and Garden Biological Fungicide Invigorate™)

ACTIVE INGREDIENT

Trichoderma harzianum Rifai strain T 22* 1 15%

OTHER INGREDIENTS 98 85%

TOTAL 100 00%

*Contains at least 1 0 x 10⁷ colony forming units per gram dry weight

ACCEPTED

AUG 07 2012

Under the Federal Insecticide Fungic
and Rodenticide Act as amended for
the pesticide registered under
EPA Reg No 68539-4

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

[See attached label booklet for First Aid Precautionary Statements Storage and Disposal Instructions and Directions for Use]

[See foldout panel for First Aid]

[See foldout panel for Directions for Use]

FIRST AID	
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing • Rinse skin immediately with plenty of water for 15-20 minutes • Call a poison control center or doctor for treatment advice
If in eyes	<ul style="list-style-type: none"> • 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
If inhaled	<p>Move person to fresh air If person is not breathing call 911 or an ambulance then give artificial respiration preferably mouth to mouth if possible Call a poison control center or doctor for further treatment advice</p>
If swallowed	<p>Call a poison control center or doctor immediately for treatment advice Have person sip a glass of water if able to swallow</p> <ul style="list-style-type: none"> • Do not induce vomiting unless told to by a poison control center or doctor • Do not give anything by mouth to an unconscious person
<p>HOT LINE NUMBER Have the product container or label with you when calling a poison control center or doctor or going for treatment You may also contact 1 800 222 1222 for emergency medical treatment information</p>	

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PRECAUTIONARY STATEMENT

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION Harmful if absorbed through skin inhaled or swallowed Causes moderate eye irritation Avoid contact with skin eyes or clothing Avoid breathing dust Wash thoroughly with soap and water after handling and before eating drinking chewing gum using tobacco or using the toilet Remove and wash contaminated clothing before reuse

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear protective eyewear long sleeved shirt long pants waterproof gloves shoes and socks Mixers/loaders and applicators must wear a dust/mist 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 instructions 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 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

(Agricultural Use) For terrestrial uses 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 washwaters or rinsate

(Residential Home and Garden Use) To protect the environment do not allow pesticide to enter or run off into storm drains drainage ditches gutters or surface waters Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area

EPA Reg No 68539 4
EPA Est No 068539 NY 001

Manufactured by BioWorks Inc 100 Rawson Road Ste 205 Victor NY 14564 (800) 877 9443

Net Weight (2 63 oz 4 oz (Residential Use)) (1 lb 3 lb 30 lb (Agricultural))
Lot No _____
Expiration Date _____

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DIRECTIONS FOR USE

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 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 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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours

Exception If the product is soil injected or soil incorporated the Worker Protection Standard under certain circumstances allows workers to enter the treated area if there will be no contact with anything that has been treated

PPE required 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 protective eyewear coveralls waterproof gloves shoes and socks

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

PRODUCT INFORMATION

T 22 WP Biological Fungicide (T 22 WP) is a preventative biological fungicide for control of plant diseases The active ingredient is a microbe *Trichoderma harzianum* Rifai 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* In the greenhouse T 22 WP is a preventative that suppresses foliar** pathogens such as *Botrytis* and mildews on flowers bedding plants and ornamentals T 22 WP can be used alone or in conjunction with certain chemical fungicides consult the appropriate tank mix compatibility charts below or your BioWorks Representative for more information

This product must not be tank mixed with chemicals that contain the following active ingredients imazilil propiconazole tebuconazole and triflumizole Do not apply T 22 WP immediately before these pesticides are used **See specific instructions for tank mixing** 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

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**This product is not intended for foliar application in California

T 22 WP is for use in soil applications (drench in soil furrow and potting soil) seed treatments and greenhouse foliar applications on ornamentals landscape plants turf and ornamental trees including tree seedlings for transplanting into the forest

ATTENTION DO NOT APPLY to sugarcane, peach, rice, mushrooms, kiwi, tobacco, barley oats, lemon, apple, and chickpea Not for use on aquatic crops Greenhouse foliar applications are for non food crops only This product is not intended for foliar application in California

For food commodities In the table immediately following this paragraph, greenhouse chemigation and field chemigation of food commodities are annotated with an asterisk (*) to indicate that these methods are limited to flood, drip, furrow micro irrigation, and ebb and flow systems with NO OVERHEAD SPRAY Do not apply product when above ground harvestable food commodities are present Refer to Chemigation section for additional specific directions

APPLY VIA GROUND APPLICATION ONLY

CROPS ON WHICH T 22 WP MAY BE USED

CROPS	USE	APPLICATION RATE OF T 22 WP
Berries and Small Fruits Blackberries Blueberries Currants Elderberries Gooseberries Huckleberries Loganberries Raspberries Strawberries Grapes	Cutting or bare rooted transplant dip	0.25 – 5.0 lb / 5 gal water or dip directly into dry powder
	Greenhouse soil drench	1.0 – 32.0 oz / 100 gal water
	Nursery soil drench	1.0 – 32.0 oz / 100 gal water
	In furrow spray or transplant starter solution	1.0 – 32.0 oz / acre
	Home & garden soil drench	1.0 – 3.0 tbsp / gal water
	*Greenhouse chemigation	1.0 – 32.0 oz / 100 gal water
	*Field chemigation	1.0 – 32.0 oz / 100 gal water
Bulb Vegetables Garlic Leeks Onions Shallots Ornamental Bulbs	Dust (pre plant)	0.03 – 3.0 lb / cwt seed
	Home & garden soil drench	1.0 – 3.0 tbsp / gal water
Cereal Grains Buckwheat Corn (grain seed sweet corn silage popcorn high oil) Rye Wheat Sorghum Millet	Planter box (onsite)	1.0 – 10.0 oz / cwt seed
	Commercial seed treatment	0.0176 – 0.529 lb / cwt seed
	*Field chemigation	1.0 – 32.0 oz / 100 gal water
Citrus Fruits Citrus Hybrids Grapefruit Kumquat Limes Oranges Pummelos	Cutting or bare rooted transplant dip	0.25 – 5.0 lb / 5 gal water or dip directly into dry powder
	Greenhouse soil drench	1.0 – 32.0 oz / 100 gal water
	Nursery soil drench	1.0 – 32.0 oz / 100 gal water
	In furrow spray or transplant starter solution	1.0 – 32.0 oz / acre
	*Greenhouse chemigation	1.0 – 32.0 oz / 100 gal water
	*Field chemigation	1.0 – 32.0 oz / 100 gal water

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CROPS	USE	APPLICATION RATE OF T 22 WP
Cucurbit Vegetables Cucumbers Melons (i.e. Chinese waxgourd Citron melon) Muskmelons or Watermelon) Gourds Pumpkins Squash	Planter box (onsite) Commercial seed treatment Greenhouse soil drench In furrow spray or transplant starter solution Home & garden soil drench *Greenhouse chemigation *Field chemigation	1 0 – 10 0 oz / cwt seed 0 088 – 3 5 lb / cwt seed 1 0 – 32 0 oz / 100 gal water 1 0 – 32 0 oz / acre 1 0 – 3 0 tbsp / gal water 1 0 – 32 0 oz / 100 gal water 1 0 – 32 0 oz / 100 gal water
Flowers, Bedding Plants and Ornamentals	Cutting or bare rooted transplant dip Commercial seed treatment Greenhouse soil drench Nursery soil drench Home & garden soil drench Greenhouse foliar spray** Greenhouse chemigation Field chemigation	0 25 – 5 0 lb / 5 gal water or dip directly into dry powder 0 088 – 26 4 lb / cwt seed 1 0 – 32 0 oz / 100 gal water 1 0 – 32 0 oz / 100 gal water 1 0 – 3 0 tbsp / gal water 0 1 – 1 0 oz / gal water 1 0 – 32 0 oz / 100 gal water 1 0 – 32 0 oz / 100 gal water
Fruiting Vegetables Eggplant Sweet and Hot Peppers Tomatillos Tomatoes	Commercial seed treatment Greenhouse soil drench In furrow spray or transplant starter solution Home & garden soil drench *Greenhouse chemigation *Field chemigation	0 35 – 26 4 lb / cwt seed 1 0 – 32 0 oz / 100 gal water 1 0 – 32 0 oz / acre 1 0 – 3 0 tbsp / gal water 1 0 – 32 0 oz / 100 gal water 1 0 – 32 0 oz / 100 gal water
Herbs Spices and Mints	Commercial seed treatment Greenhouse soil drench In furrow spray or transplant starter solution Home & garden soil drench *Greenhouse chemigation *Field chemigation	0 35 – 26 4 lb / cwt seed 1 0 – 32 0 oz / 100 gal water 1 0 – 32 0 oz / acre 1 0 – 3 0 tbsp / gal water 1 0 – 32 0 oz / 100 gal water 1 0 – 32 0 oz / 100 gal water
Hydroponic Crops Cucumbers Tomatoes Lettuce Herbs and Spices	Greenhouse soil drench Home & garden soil drench *Greenhouse chemigation	1 0 – 32 0 oz / 100 gal water 1 0 – 3 0 tbsp / gal water 1 0 – 32 0 oz / 100 gal water
Leafy and Brassica (Cole) Leafy Vegetables Arugula Celery Chervil Endive Fennel Lettuce (head and leaf) Parsley Radicchio Rhubarb Spinach Swiss Chard Broccoli Brussels Sprouts Cabbage Cauliflower Collards Kale Kohliabi Mustard Greens Asparagus	Cutting or bare rooted transplant dip Commercial seed treatment Greenhouse soil drench In furrow spray or transplant starter solution Home & garden soil drench *Greenhouse chemigation *Field chemigation	0 25 – 5 0 lb / 5 gal water or dip directly into dry powder 0 35 – 26 4 lb / cwt seed 1 0 – 32 0 oz / 100 gal water 1 0 – 32 0 oz / acre 1 0 – 3 0 tbsp / gal water 1 0 – 32 0 oz / 100 gal water 1 0 – 32 0 oz / 100 gal water
Legume Vegetables (Succulent or Dried) Beans (soybean snap dry) Lentils Peas	Planter box (onsite) Commercial seed treatment Home & garden soil drench *Field chemigation	1 0 – 10 0 oz / cwt seed 0 0004 – 0 529 lb / cwt seed 1 0 – 3 0 tbsp / gal water 1 0 – 32 0 oz / 100 gal water

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CROPS	USE	APPLICATION RATE OF T 22 WP
Nongrass Animal Feeds (Forage Fodder, Straw, and Hay) Alfalfa Clover Vetch Trefoil	Planter box (onsite) Commercial seed treatment	1 0 – 10 0 oz / cwt seed 0 35 – 26 4 lb / cwt seed
Oilseed Crops Cotton Canola Safflower Sunflower	Planter box (onsite) Commercial seed treatment *Field chemigation	1 0 – 10 0 oz / cwt seed 0 0176 – 0 529 lb / cwt seed 1 0 – 32 0 oz / 100 gal water
Peanuts	Planter Box (onsite) Commercial seed treatment Home & garden soil drench	1 0 – 10 0 oz / cwt seed 0 0004 – 0 529 lb / cwt seed 1 0 – 3 0 tbsp / gal water
Pome Fruits Pears Quince	Greenhouse soil drench Nursery soil drench In furrow spray or transplant starter solution Home & garden soil drench *Greenhouse chemigation *Field chemigation	1 0 – 32 0 oz / 100 gal water 1 0 – 32 0 oz / 100 gal water 1 0 – 32 0 oz / acre 1 0 – 3 0 tbsp / gal water 1 0 – 32 0 oz / 100 gal water 1 0 – 32 0 oz / 100 gal water
Root and Tuber Vegetables Beets Sugar Beets Carrots Celeriac Chicory Horseradish Parsnip Radish Rutabaga Salsify Turnips Potatoes Sweet Potatoes Yams Jerusalem Artichoke Cassava Ginger	Planter box (onsite) Commercial seed treatment Planter box (onsite) In furrow spray or transplant starter solution *Field chemigation	1 0 – 10 0 oz / cwt seed 0 088 – 3 52 lb / cwt seed 0 03 – 3 0 lb / cwt seed tubers or cut potato seed pieces 1 0 – 32 0 oz / 100 gal water 1 0 – 32 0 oz / 100 gal water
Shadehouse and Outdoor Nursery Crops Deciduous Trees (i e Maple Oak) Ornamentals Grapes Citrus Pine	Cutting or bare rooted transplant dip Greenhouse soil drench Nursery soil drench In furrow spray or transplant starter solution Home & garden soil drench *Greenhouse chemigation *Field chemigation	0 25 – 5 0 lb / 5 gal water or dip directly into dry powder 1 0 – 32 0 oz / 100 gal water 1 0 – 32 0 oz / 100 gal water 1 0 – 32 0 oz / acre 1 0 – 3 0 tbsp / gal water 1 0 – 32 0 oz / 100 gal water 1 0 – 32 0 oz / 100 gal water
Stone Fruits Apricots Cherries Nectarines Peaches Plums Prunes	Cutting or bare rooted transplant dip Greenhouse soil drench Nursery soil drench In furrow spray or transplant starter solution Home & garden soil drench *Greenhouse chemigation *Field chemigation	0 25 – 5 0 lb / 5 gal water or dip directly into dry powder 1 0 – 32 0 oz / 100 gal water 1 0 – 32 0 oz / 100 gal water 1 0 – 32 0 oz / acre 1 0 – 3 0 tbsp / gal water 1 0 – 32 0 oz / 100 gal water 1 0 – 32 0 oz / 100 gal water

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CROPS	USE	APPLICATION RATE OF T 22 WP
Tree Nuts Almonds Beech Nuts Brazil Nuts Butternuts Cashews Chestnuts Filberts Hickory Nuts Macadamia Nuts Pecans Pistachios Walnuts	Cutting or bare rooted transplant dip Greenhouse soil drench Nursery soil drench In furrow spray or transplant starter solution Home & garden soil drench *Greenhouse chemigation *Field chemigation	0.25 – 5.0 lb / 5 gal water or dip directly into dry powder 1.0 – 32.0 oz / 100 gal water 1.0 – 32.0 oz / 100 gal water 1.0 – 32.0 oz / acre 1.0 – 3.0 tbsp / gal water 1.0 – 32.0 oz / 100 gal water 1.0 – 32.0 oz / 100 gal water
Turfgrass Turf Sports Fields Parks Established and New Preparation of Golf Course Tees Greens Fairways and Roughs Seed Production Sod Production	Planter box (onsite) Commercial seed treatment	1.0 – 10.0 oz / cwt seed 0.35 – 26.43 lb / cwt seed

** This product is not intended for foliar application in California

SEED TREATMENT FOR TRUE SEED CROPS

ONSITE APPLICATION TO SEED For protection against root diseases apply 1.0 – 10.0 ounces of T 22 WP/hundredweight of seed. For example for large smooth seeds such as soybean and dry bean and smaller or rougher seeds such as peas and field corn apply 1.0 – 8.0 ounces of T 22 WP /hundredweight of seed. For sweet corn apply 1.0 – 10.0 ounces T 22 WP/hundredweight of seed. 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 also 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.

Do not use treated seed for food or feed purposes or process for oil. Treat only those seeds needed for immediate use minimizing the interval between treatment and planting. Do not store excess treated seeds beyond planting time.

COMMERCIAL SEED TREATMENT Apply T 22 WP as a slurry a coating in a pellet or during seed priming. See table below.

Note This product does not contain dye and is not covered by an appropriate tolerance exemption or other clearance under the Federal Food Drug and Cosmetic Act. To comply with 40 CFR 153.155 there fore all seeds treated commercially with this product must be colored with an EPA approved dye or colorant of suitable color to prevent accidental use as food for man or feed for animals.

The Federal Seed Act requires that bags containing seed treated with this product shall be labeled with the following information. This seed has been treated with *Trichoderma harzianum* Rifai strain T 22. Do not use for food feed or oil purposes.

Seed Size (#seeds/oz)	Grams of T 22 WP per lb of seed	Ounces of T 22 WP per lb of seed
Large (1 100) such as peanuts green & dry beans field corn	0 0016 0 32 g	0 00006 – 0 0113 oz
Medium (100 1 000) such as sweet corn soybeans sorghum	0 08 2 4 g	0 0028 0 0847 oz
Small (1 000 10 000) such as cabbage cucumbers sugar beets	0 4 – 16 g	0 0141 – 0 564 oz
Fine (10 000 100 000) such as tomatoes	1 6 – 120 g	0 0564 – 4 23 oz

ORNAMENTAL CROPS

Seed Size (#seeds/oz)	Grams of T 22 WP per lb of seed	Ounces of T 22 WP per lb of seed
Small (1 000 – 10 000) such as Echinacea Cosmos	0 4 – 16 g	0 0141 – 0 564 oz
Fine (10 000 – 100 000) such as Texas bluegrass ryegrass	1 6 – 120 g	0 0564 – 4 23 oz
Very Fine (100 000 – 500 000) such as bentgrass	8 0 – 80 g	0 282 – 2 82 oz

SEED TREATMENT FOR VEGETATIVELY PROPAGATED CROPS (INCLUDING POTATOES, OTHER ROOT AND TUBER VEGETABLES, AND BULB VEGETABLES)

For planting or storage treat at 0 03 – 3 0 pounds T 22 WP to 100 lbs (1 cwt) of bulbs or cut potato seed pieces Alternatively dip bulbs tubers or cut potato seed pieces in a suspension consisting of 0 25 5 0 pounds of T 22 WP in 5 gallons of water

For potatoes apply T 22 WP with compatible chemical seed dusts Consult your BioWorks Representative for more 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 or they may be planted immediately

DIP FOR CUTTINGS AND BARE ROOTED TRANSPLANTS

Dip cuttings and bare rooted transplants in T 22 WP dry powder or in a suspension of 0 25 5 0 pounds of T 22 WP in 5 gallons of water Plant treated cuttings and bare rooted transplants in potting mix or soil in the usual manner

SOIL DRENCH

GREENHOUSE SOIL DRENCH Suspend 1 0 – 32 0 ounces of T 22 WP in 100 gallons of water with agitation and apply prepared suspension as a soil drench to greenhouse planting mixes For seeding flats or shallow (up to 4 inch depth) beds or pots apply prepared suspension at a rate of 50 100 gallons per 800 square feet For deeper beds or pots apply prepared suspension at a rate of 100 gallons per 400 square feet 1/2 cup (4 fluid ounces) for pots with a 3 inch diameter or 1 cup (8 fluid ounces) for pots with a 6 inch diameter

Apply T 22 WP directly to the soil through low pressure watering nozzles such as fan nozzles 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 the most restrictive of labeling limitations and precautions of all products used in mixtures Consult the tank mix compatibility chart below or your BioWorks representative for more information

NURSERY SOIL DRENCH Suspend 1 0 – 32 0 ounces of T 22 WP in 100 gallons of water with agitation and apply prepared suspension as a soil drench to container nursery crops For shallow (up to 4 inch depth) beds or pots apply prepared suspension at a rate of 50 100 gallons per 800 square feet For deeper beds or pots apply prepared suspension at a rate of 100 gallons per 400 square feet 1/2 cup (4 fluid ounces) for pots with a 3 inch diameter or 1 cup (8 fluid ounces) for pots with a 6 inch diameter Apply T 22 WP directly to the soil through low pressure watering nozzles such as fan nozzles other drench watering systems handheld sprayers or backpack sprayers

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 nursery plants If tank mixes are desired observe the most restrictive of labeling limitations and precautions of all products used in mixtures Consult the tank mix compatibility chart below or your BioWorks representative for more information

IN FURROW SPRAY OR TRANSPLANT STARTER SOLUTION Apply T 22 WP 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 and is compatible with many commonly used fungicides liquid fertilizers herbicides insecticides and biological control products registered for use on nursery plants If tank mixes are desired observe the most restrictive of labeling limitations and precautions of all products used in mixtures Consult the tank mix compatibility chart below or your BioWorks representative for more 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 If tank mixes are desired observe the most restrictive of labeling limitations and precautions of all products used in mixtures Consult the tank mix compatibility chart below or your BioWorks representative for more information

This product must not be tank mixed with chemicals that contain the following active ingredients imazilil, propiconazole, tebuconazole, and triflumizole Do not apply T 22 WP immediately before these pesticides are used

In accordance with the most restrictive of label limitations and precautions (for all products used in a tank mixture) this product can be mixed with specific products (see table immediately below) their active ingredient percentages and their application rates for use in greenhouse soil drench nursery drench in furrow spray and transplant starter solution Do not exceed label dosage rates

This product cannot be mixed with any product containing a label prohibition against such mixing

COMPATIBILITY FOR GREENHOUSE SOIL DRENCH, NURSERY DRENCH, IN FURROW SPRAY OR TRANSPLANT STARTER SOLUTION TANK MIXES

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Note While the information presented in this table is believed to be up to date the user must always read the label of the other products used in a tank mix to confirm application rates and dilutions

Chemical Name	% A I Formulation Type	Product Name	Application Rate (Amount of Product / Unit Area)	Dilution (Amount of Product / Amount of Water)
Captan	85% Wettable Powder	Captan 85WP	1.88 lb/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 SOIL DRENCH For preventative control of root diseases of vegetable flower and ornamental plants For drench application to seeds mix 1.0 to 3.0 tablespoons of T 22 WP per gallon of water and apply mixture with a watering can or other device to 25 feet of planting furrow before covering the seeds with soil

For transplants mix 1.0 to 3.0 tablespoons of T 22 WP per gallon of water and apply 1/2 - 1 cup (4 - 8 fluid ounces) of mixture per plant at transplanting For new plant beds mix 1.0 - 3.0 tablespoons of T 22 WP per gallon of water and apply mixture at a rate of one gallon per 25 square feet of plant bed For established beds or potted plants mix 1.0 - 3.0 tablespoons of T 22 WP per gallon of water and apply mixture at a rate of 1 gallon per 25 square feet of plant bed or 1/2 - 1 cup (4 - 8 fluid ounces) per 4 - 8 inch diameter pot T 22 WP is designed for application to seeds plant roots and soil for control of plant root diseases and is not to be used for spray application to foliage or fruit

FOLIAR SPRAY

GREENHOUSE FOLIAR SPRAY** Greenhouse foliar applications are for non food crops only For preventative control of *Botrytis* powdery mildew and other fungal pathogens on greenhouse grown flowers bedding plants and ornamentals apply T 22 WP 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

NOTE **This product is not intended for foliar application in California

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Apply T 22 WP at a rate of 10 – 10 ounce per gallon of water Use a quantity of spray sufficient to thoroughly cover foliage 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
 To improve plant surface coverage consider tank mixing T 22 WP with a nonionic spreader sticker Agitation is required to maintain suspension Clean application equipment before use of this product and use sprays 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 plants If tank mixes are desired observe the most restrictive of labeling limitations and precautions of all products used in mixtures Consult the tank mix compatibility chart below or your BioWorks representative for more information **This product must not be tank mixed with chemicals that contain the following active ingredients imazilil, propiconazole, tebuconazole, and triflumizole** Do not apply T 22 WP immediately before these pesticides are used

In accordance with the most restrictive of label limitations and precautions (for all products used in a tank mixture) this product can be mixed with specific products (see table immediately below) their active ingredient percentages and their application rates for use in greenhouse foliar spray Do not exceed label dosage rates
 This product cannot be mixed with any product containing a label prohibition against such mixing

COMPATIBILITY FOR GREENHOUSE FOLIAR SPRAY TANK MIXES**

Note While the information presented in this table is believed to be up to date the user must always read the label of the other products used in a tank mix to confirm application rates and dilutions

Chemical Name	% A I Formulation Type	Product Name	Application Rate (Amount of Product / Unit Area)	Dilution (Amount of Product / Amount of Water)
Captan	85% Wettable Powder	Captan 85WP	1.88 lb/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	0.06 oz/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

**This product is not intended for foliar application in California

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

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spreader sticker Mix Bag 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 T 22 WP into the spray tank Add a small amount of water to the settled material in the container to remove any remaining T 22 WP 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 AND FIELD CHEMIGATION

Suspend 10 – 320 ounces T 22 WP in 100 gallons of water with agitation and apply only through the following systems 1) pressurized drench (flood) or drip (trickle) 2) furrow 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 and 5) ebb and flow Do not apply this product through any other type of irrigation system

Crop injury or lack of effectiveness can result from non uniform distribution of treated water

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

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

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

Requirements for Chemigation Systems Connected to Public Water Systems

- 1) Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year
- 2) Chemigation systems connected to public water systems must contain a functional reduced pressure zone back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction As an option to the RPZ the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe
- 3) The pesticide injection pipeline must contain a functional automatic quick closing check valve to prevent the flow of fluid back toward the injection pump
- 4) 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
- 5) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump when the water pressure decreases to the point where pesticide distribution is adversely affected
- 6) 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
- 7) Do not apply when wind speed favors drift beyond the area intended for treatment

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- 8) Apply T 22 WP (ing the last half of the water application) (iod Mix T 22 WP in enough water to be able to draw through the system for the last half of the water application Maintain constant agitation
 - 9) Apply enough water to move T 22 WP into the root zone Amounts will vary depending on soil type and existing moisture level Do not apply water volumes that would cause runoff or excessive leaching

Drip (Trickle) Chemigation and Micro irrigation Requirements

- 1) 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 back flow
- 2) The pesticide injection pipeline must contain a functional automatic quick closing check valve to prevent the flow of fluid back toward the injection pump
- 3) 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
- 4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops
- 5) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected
- 6) 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
- 7) Apply T 22 WP during the last half of the water application period Mix T 22 WP in enough water to be able to draw through the system for the last half of the water application Maintain constant agitation
- 8) Apply enough water to move T 22 WP into the root zone Amounts will vary depending on soil type and existing moisture level Do not apply water volumes that would cause runoff or excessive leaching

Flood and Furrow Chemigation Requirements

- 1) Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from back flow if water flow stops
- 2) Systems utilizing a pressurized water and pesticide injection system must meet the following requirements
 - a 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 back flow
 - b The pesticide injection pipeline must contain a functional automatic quick closing check valve to prevent the flow of fluid back toward the injection pump
 - c 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

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

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

f 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

3) Apply T 22 WP during the last half of the water application period Mix T 22 WP in enough water to be able to draw through the system for the last half of the water application Maintain constant agitation

4) Apply enough water to move T 22 WP into the root zone Amounts will vary depending on soil type and existing moisture level Do not apply water volumes that would cause runoff or excessive leaching

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 and disposal

PESTICIDE STORAGE Store in a cool dry place Do not store at temperatures above 75°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 by shaking and tapping sides and bottom to loosen clinging particles Empty residue into application equipment Then offer for recycling if available or dispose of empty bag in sanitary landfill or by incineration Do not burn unless allowed by state and local ordinances If burned stay out of smoke If outer box is contaminated dispose of in same manner as required for the bag

STORAGE AND DISPOSAL (Residential, Home and Garden Use)

Do not contaminate water food or feed by storage and disposal

PESTICIDE STORAGE Store original container in a cool dry and locked place inaccessible to children and pets Do not store at temperatures above 75 F for prolonged periods Keep container tightly closed when not in use

PESTICIDE DISPOSAL AND CONTAINER HANDLING Nonrefillable container Do not reuse or refill this container **If empty** –Place in trash or offer for recycling if available **If partly filled** – Call your local solid waste agency or 1 800 CLEANUP for disposal instructions Never place unused product down indoor or outdoor drain

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NOTICE TO BUYER AND SELLER Seller warrants that this product conforms to the description on this label and is reasonably fit for the purposes stated on this label when used and stored in accordance with the directions for 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. To the extent consistent with applicable law 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 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.

[Country United States of America]

[In Case of Emergency Call CHEMTREC (800) 424 9300]

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