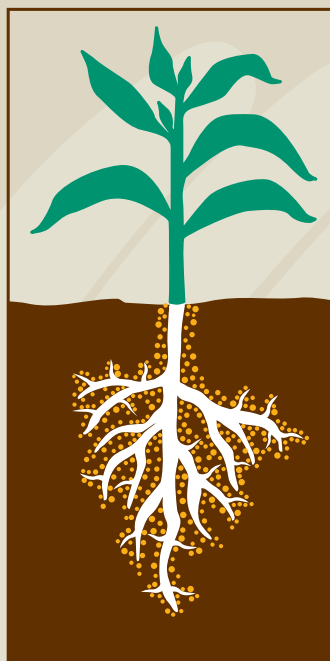


T22TM HC

Biological Fungicide

**ACTIVE INGREDIENT:***Trichoderma harzianum* Rifai strain T-22* 1.15%**OTHER INGREDIENTS:** 98.85%**TOTAL:** 100.00%*Contains at least 1.0×10^7 colony forming units per gram dry weight

EPA Reg. No. 68539-4

EPA Est. No. 068539-NY-001

KEEP OUT OF REACH OF CHILDREN
CAUTION

See attached label booklet for **FIRST AID**, Precautionary Statements, Storage and Disposal Instructions and Directions for Use**BioWorks[®]**

100 Rawson Rd., Suite 205, Victor, NY 14564

Net ☐ ☐
Contents: 3 lb (1.36 kg) 30 lb (13.6 kg)

Lot No.:

Expiration Date:

T-22™ HC

Biological Fungicide

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.

EPA Reg.No. 68539-4

EPA Est. No. 068539-NY-001

KEEP OUT OF REACH OF CHILDREN

CAUTION

First Aid	
If on skin or clothing	• 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	• 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	• 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.
If swallowed	• Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
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.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & 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

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.

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.

PRODUCT INFORMATION

T-22 HC Biological Fungicide 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*. T-22 HC Biological Fungicide 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 HC Biological Fungicide 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 HC Biological Fungicide for root disease control.

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

T-22 HC Biological Fungicide is for use in soil applications (drench and in soil furrow) and seed treatments.

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

For food commodities: Do not apply product when above-ground harvestable food commodities are present.

APPLY VIA GROUND APPLICATION ONLY.

CROPS ON WHICH T-22 HC BIOLOGICAL FUNGICIDE MAY BE USED		
Crops	Use	Application Rate of T-22 HC
Bulb Vegetables: Garlic, Leeks, Onions, Shallots	Dust (pre-plant)	4.0 – 8.0 oz / cwt seed
Cereal Grains: Buckwheat, Corn (grain, seed, sweet corn, silage, popcorn, high oil), Rye, Wheat, Sorghum, Millet	Planter Box (Onsite) Commercial seed treatment	1.5 - 3.0 oz / cwt seed 0.0176 – 0.529 lb / cwt seed
Cucurbit Vegetables: Cucumbers, Melons (i.e. Chinese waxgourd, Citron melon, Muskmelons, or Watermelon), Gourds, Pumpkins, Squash	Planter Box (Onsite) Commercial seed treatment In-furrow spray or transplant starter solution	2.0 – 8.0 oz / cwt seed 0.088 – 3.5 lb / cwt seed 16.0 – 32.0 oz / acre
Fruiting Vegetables: Eggplant, Sweet and Hot Peppers, Tomatillos, Tomatoes	Commercial seed treatment In-furrow spray or transplant starter solution	0.35 – 26.4 lb / cwt seed 16.0 – 32.0 oz / acre
Herbs, Spices and Mints.	Commercial seed treatment In-furrow spray or transplant starter solution	0.35 – 26.4 lb / cwt seed 16.0 – 32.0 oz / acre
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, Kohlrabi, Mustard Greens	Commercial seed treatment In-furrow spray or transplant starter solution	0.35 – 26.4 lb / cwt seed 16.0 – 32.0 oz / acre
Asparagus		
Legume Vegetables (Succulent or Dried): Beans (soybean, snap, dry), Lentils, Peas.	Planter Box (Onsite) Commercial seed treatment	1.5 – 3.0 oz / cwt seed 0.0004 – 0.529 lb / cwt seed
Nongrass Animal Feeds (Forage, Fodder, Straw, and Hay): Alfalfa, Clover, Vetch, Trefoil	Planter Box (Onsite) Commercial seed treatment	2.0 – 4.0 oz / cwt seed 0.35 – 26.4 lb / cwt seed
Oilseed Crops: Cotton, Canola, Safflower, Sunflower	Planter Box (Onsite) Commercial seed treatment	1.5 – 3.0 oz / cwt seed 0.0176 – 0.529 lb / cwt seed
Root and Tuber Vegetables: Beets, Sugar Beets, Carrots, Celeriac, Chicory, Horseradish, Parsnip, Radish, Rutabaga, Salsify, Turnips.	Planter Box (Onsite) Commercial seed treatment	4.0 – 8.0 oz / cwt seed 0.88 – 3.52 lb / cwt seed
Potatoes, Sweet Potatoes, Yams, Jerusalem Artichoke, Cassava, Ginger.		0.5 – 3.0 oz / cwt seed tubers or cut potato seed pieces

SEED TREATMENT FOR VEGETATIVELY PROPAGATED CROPS (INCLUDING POTATOES, OTHER ROOT AND TUBER VEGETABLES, AND BULB VEGETABLES: For planting or storage, treat at 0.5 – 3.0 ounces T-22 HC Biological Fungicide 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 – 2.5 pounds of T-22 HC Biological Fungicide in 5 gallons of water. .

For potatoes, apply T-22 HC Biological Fungicide 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.

IN-FURROW SPRAY OR TRANSPLANT STARTER SOLUTION: Apply T-22 HC Biological Fungicide as an in-furrow spray or transplant starter solution at a rate of 16.0 -32.0 ounces /acre in sufficient water to achieve uniform application. Maintain constant agitation. T-22 HC Biological Fungicide 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 HC Biological Fungicide 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, propicanazole, tebuconazole, and triflumizole.** Do not apply T-22 HC Biological Fungicide 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 in-furrow spray or 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 CHART FOR IN-FURROW SPRAY
OR TRANSPLANT STARTER SOLUTION 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 85 WP	1.88 lb/Acre	0.1 oz/gal
Chlorothalonil	82.5%, Water Dispersible Granules	Daconil Ultrex	3.7 oz/1000 sq. ft.	0.56 oz/gal
Iprodione	23.3%, Flowable	Chipco 26019 Flo	4.0 oz/1000 sq. ft.	0.6 oz/gal
Iprodione	50%, Soluble Granules	Rovral	0.75 lb/acre	0.04 oz/gal
Thiophanate methyl	50%, Wettable Powder	Cleary's 3336 in water soluble bags	8.0 oz/1000 sq. ft.	1.2 oz/gal
Metaxyl	21.3%, Liquid	Subdue Maxx	0.25 oz/800 sq. ft.	0.05 oz/gal
Chlorpyrifos	50%, Emulsifiable Liquid	Lorsban 4E	3.2 oz/gal	3.2 oz/gal

SEED TREATMENT FOR TRUE SEED CROPS

ONSITE APPLICATION TO SEED: For protection against root diseases, apply 1.5 - 8.0 ounces of T-22 HC Biological Fungicide/hundredweight of seed. For example, for large, smooth seeds such as soybean or dry bean, and smaller or rougher seeds such as peas and field corn, apply 1.5 - 3.0 ounces of T-22 HC Biological Fungicide/hundredweight of seed.. For sweet corn, apply 1.5 - 3.0 ounces of T-22 HC Biological Fungicide/hundredweight of seed. To assure uniform application, add half the required amount of T-22 HC Biological Fungicide to half the seed in the hopper, mix with a wooden paddle, and then add the remaining seed and T-22 HC Biological Fungicide. T-22 HC Biological Fungicide can also be applied in sufficient water to coat seeds. For maximum seed protection, especially in cold soils, apply T-22 HC Biological Fungicide to commercially treated seed such as seed treated with Captan, Apron and or Demosan for stand establishment.

COMMERCIAL SEED TREATMENT: Apply T-22 HC Biological Fungicide 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 therefore, 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.

AGRICULTURAL CROPS

Seed Size (# seeds/oz.)	Grams of T-22 HC per lb of seed	Ounces of T-22 HC 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

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

STORAGE AND DISPOSAL

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.

NOTICE TO BUYER AND SELLER: Seller warrants that this product conforms to the description on this label and is reasonable fit for the purposes stated on this 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. 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 Lot Number: _____

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

Manufactured in the USA by:



**100 Rawson Rd, Suite 205
Victor, New York 14564
(800) 877-9443**

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S-0054.1

FIRST AID

If on skin or clothing: • 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:** • 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:** • 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. **If swallowed:** • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to by a poison control center or doctor. • Do not give anything by mouth to an unconscious person. 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.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & 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

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.

STORAGE AND DISPOSAL

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.

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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.