



## OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

September 16, 2024

Pam McGee  
Regulatory Affairs Specialist II  
Novozymes North America, Inc.  
An affiliate of Novozymes Biologicals, Inc.  
5400 Corporate Circle  
Salem, VA 24153

Subject: PRIA (Pesticide Registration Improvement Act) Labeling and Formulation Amendment –  
Add an Alternate Manufacturing Process, Add an Alternate Production Site, and Make  
Updates to the Label Requested by EPA  
Product Name: TAEGRO  
EPA Registration Number: 70127-5  
EPA Receipt Date: 03/22/2024  
Action Case Number: 00559339

Dear Pam McGee:

The amended labeling and Confidential Statement of Formula (CSF) referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, are acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

Please note that the record for this product currently contains the following acceptable CSF:

- Basic CSF dated 09/12/2024

Any CSFs other than that listed above are superseded/no longer valid.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 § CFR 152.3.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the U.S. Environmental Protection Agency. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40

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EPA Reg. No. 70127-5


Action Case No. 00559339

CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Andrew Queen by phone at 202-566-1539 or via email at [queen.andrew@epa.gov](mailto:queen.andrew@epa.gov).

Sincerely,

  
Digitally signed by  
Alexandra Boukedes  
Date: 2024.09.16  
17:15:28 -04'00'

Alexandra Boukedes, Product Manager 92  
Microbial Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511M)  
Office of Pesticide Programs

Enclosure:

Note to reviewer:

{ } – Denotes comments to the reviewer, and [ ] – Denotes optional statements and/or images.

{This label reflects the unit package labeling and will be presented as a booklet on the front of the product container. Pages 1 and 2 are the primary display panel of the booklet.}

TAEGRO®

[Fungicide][For Suppression of Certain Diseases]

[TAEGRO is an Agricultural Biofungicide/Bactericide for Suppression of Certain Diseases]

[For Plant Strengthening, Growth Enhancement and Suppression of Certain Diseases]

	% w/w
ACTIVE INGREDIENT: <i>Bacillus subtilis</i> var. <i>amyloliquefaciens</i> Strain FZB24* .....	10.4%
OTHER INGREDIENTS.....	89.6%
Total.....	100.0%

\*Contains a minimum of 1.0 x 10<sup>10</sup> Colony Forming Units [(CFU)]/gram of product

KEEP OUT OF REACH OF CHILDREN

WARNING/AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

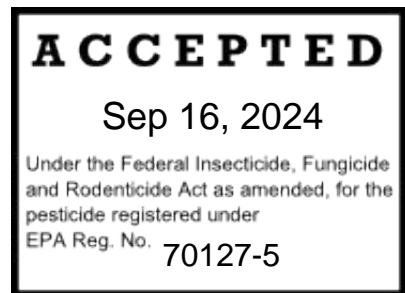
See inside this booklet for [additional] [Precautionary Statements,] [First Aid,] complete Directions for Use, and Warranty.

Net contents: [8.8 ounces (250 gm); or 13.2 oz (375 gm); or 1 pound (lb.) 10.5 oz (750 gm)]

Novozymes Biologicals, Inc.  
5400 Corporate Circle • Salem, VA 24153  
1-888-744-5662

EPA Reg. No. 70127-5  
EPA Est. No. [EPA ESTABLISHMENT NO.]  
Made in the USA

[NOVOZYMES RETHINK TOMORROW] [LOGO]



Batch Code and Expiration Date: [Batch code and expiration date to be inserted]

# PRECAUTIONARY STATEMENTS

## HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING - Causes skin irritation. Do not get on skin or on clothing. Causes moderate eye irritation. Avoid contact with eyes. Harmful if absorbed through skin, inhaled or swallowed. Avoid breathing dust or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, and chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

## FIRST AID

IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
IF IN EYES:	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
IF INHALED:	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li></ul>
IF SWALLOWED:	<ul style="list-style-type: none"><li>• Call a Poison Control Center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>

## 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.

{Note: The following information represents the beginning of the inside pages of the booklet attached to the front of the product container}

## PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers including those handling treated seeds must wear:

- Coveralls worn over short-sleeved shirt and short pants
- Socks
- Chemical-resistant footwear
- Chemical-resistant gloves
- Protective eyewear such as goggles, face shield or shielded safety glasses

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 the 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.

## ENGINEERING CONTROLS

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

### **USER SAFETY RECOMMENDATIONS**

**Users should:**

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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.

## 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 cleaning equipment or disposing of equipment washwater or rinsate.

## PHYSICAL OR CHEMICAL HAZARDS

For spill, leak, fire, exposure, or accident, call CHEMTREC at 1-800-424-9300.

## 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 handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the state or tribal agency responsible for pesticide regulation.

Not for sale, use or distribution in Hawaii.

### 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 24 hours.

**EXCEPTION:** If the product is 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.

For early entry into 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, wear:

- Coveralls worn over short-sleeved shirt and short pants
- Socks
- Chemical-resistant footwear
- Chemical-resistant gloves
- Protective eyewear such as goggles, face shield or shielded safety glasses

## **NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses 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.

## **GENERAL**

TAEGRO is a bacterial based biofungicide/bactericide used for suppressing selected soil-borne and foliar diseases on agricultural [[and ornamental] [and other]] crops as listed on the following pages.

TAEGRO is most effective in low to medium disease pressure situations. To maximize suppression action apply prior to disease or at disease establishment.

## **MIXING INSTRUCTIONS**

[TAEGRO must be pre-mixed thoroughly with water to assure a properly distributed suspension]. Slowly add the required amount of TAEGRO into the spray tank during filling. With concentrate sprays, pre-mix the required amount of TAEGRO in a clean container and add to the spray tank as it is being filled. Keep agitator running when filling spray tank and during spray operations. The addition of a non-ionic surfactant is recommended to improve coverage when used as a foliar spray. If mix water pH is less than 5 or greater than 8, pH adjustment and buffering may improve suspension. Apply content of entire suspension within a few hours of mixing to ensure viability of TAEGRO.

## **COMPATIBILITY**

TAEGRO is compatible with many commonly used plant protection products and fertilizers, but has not been evaluated with all potential combinations of products that might be in tank mixes. To ensure compatibility, conduct a jar test by mixing proportionally scaled down quantities of the desired tank mix components in the proportional amount of water. Add wettable powders first (if used, add the non-ionic surfactant at this point), followed by water dispersible granules, then by liquid flowables and lastly, emulsifiable concentrates. Mix thoroughly and let stand for at least five minutes. If the mix stays in solution or re-suspends, it is physically compatible. If possible, spray the jar mix on a small section of crop to confirm crop safety of the mix.

Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures. Do not exceed label dosage rates. This product cannot be mixed with any product containing a label prohibition against such mixing. Test the combination on a small portion of the crop to be treated to ensure that a phyto-toxic response will not occur as a result of application.

## APPLICATION INSTRUCTIONS

Apply TAEGRO as early as possible in the life cycle of the plant to enhance disease protection. Apply TAEGRO to plants according to use patterns by disease, crop and disease pressure as needed for up to 12 applications per season. For best results, initiate TAEGRO applications prior to disease establishment while the disease pressure is low to medium. When diseases reach medium to high pressure, TAEGRO is most effective in tank mixes or rotations with other fungicides as an excellent resistance management tool.

**Foliar Applications:** Apply TAEGRO in an application volume that provides adequate coverage and placement for optimum crop protection and disease prevention. To provide optimum coverage use application rates of 2.6 to 5.2 oz per acre in 20-50 gallons per acre for low biomass crops. **Disease control applications for larger crop and soil drench applications that are made with the application rate per volume cannot exceed the total labeled application rate per area for that use pattern.** Higher spray volume (50 gallons per acre) will generally result in better coverage and better disease control. Lack of control when using below minimum spray volumes is solely at the risk of the applicator/user.

**Transplants, Including Plugs:** Apply TAEGRO to transplants by dipping or drenching, making sure the root system is thoroughly soaked. For dipping, follow the instructions for “Cutting and Root Dips” before planting transplants into soil medium. For drenching, first plant the transplants into soil medium and then follow instructions for “Drenching.” In greenhouse production apply TAEGRO to newly sown transplants.

**Drenching:** Apply TAEGRO to seedlings or newly rooted cuttings. Drench soil around plants with the TAEGRO suspension making sure TAEGRO is thoroughly drenched into the root zone.

Mix and Apply TAEGRO as follows:

- Per 100 gallons of water – [By weight] use 2.6 - 5.2 oz (75-150 grams) of TAEGRO; By volume, use 3.5-7.0 fluid ounces of TAEGRO
- Per 1 gallon of water – [By weight] use 0.05 oz (1.5 grams) of TAEGRO.

**Cutting and Root Dips:** Stir suspension for several minutes to ensure complete mixture and to eliminate clumps. Place rootstock in the suspension for five to ten minutes allowing time for TAEGRO to penetrate the root zone. For ornamentals, apply at least one follow-up drench treatment two to three weeks following initial treatment.

Mix and Apply TAEGRO as follows:

- Per 1 gallon of water – [By weight,] use 0.28 oz (8 grams) of TAEGRO; [By volume,] use 2 teaspoons of TAEGRO.



**Row Crops:** Apply TAEGR0 in an application volume that provides adequate coverage and placement for optimum crop protection and disease prevention. To provide optimum coverage, use application rates of 2.6 to 5.2 oz per acre in 20-50 gallons per acre for low biomass crops. Make applications for foliar disease control on high biomass crops and crop stages and soil drench applications at 2.6 to 5.2 oz per 100 gallons at total applications volumes that provide optimum coverage and disease protection.

**Seed Treatments:** Using the table below, apply the specified amount of TAEGR0 into the specified amount of water. Apply to the seed per your usual seed treatment method, as a water-based slurry through standard slurry- or mist-type seed treatment equipment. 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.

Seed	Taegro/seed		Water/seed	
	oz TAEGR0/lb seed	g TAEGR0 /kg seed	oz water/lb seed	fluid ml water/kg seed
Beet	0.54	15.30	0.47	30.6
Canola	0.96	27.25	0.84	54.5
Corn	0.40	11.34	0.58	37.8
Cotton	0.67	18.90	0.58	37.8
Cucumber	0.96	27.25	0.84	54.5
Garden Bean	0.05	1.40	0.09	5.6
Lettuce – Pelletized	0.93	26.45	0.81	52.9
Lettuce – Unpelletized	0.58	16.45	0.50	32.9
Onion	1.44	40.90	1.25	81.8
Pepper	0.96	27.25	0.84	54.5
Soy	0.06	1.55	0.12	7.75
Tomato	1.44	40.90	1.25	81.8
Wheat	0.07	1.92	0.10	6.4

**Soil Incorporation:** Mix TAEGR0 into soil or soilless growing media at a rate of 8.8 oz. (250 grams) per cubic yard. Thoroughly mix media, using mechanical mixing equipment, to ensure a uniform distribution of product. Incorporated into soil, TAEGR0 can be raked into growing beds prior to planting.

**Hydroponics:** Prepare a stock solution by adding 1 gram (¼ teaspoon) of TAEGR0, for every 50 feet of irrigation tubing, in one gallon of water. Stir product for several minutes to ensure complete suspension. Add solution to circulating water system and allow it to go through three to five watering cycles before clearing the system. For best results, make two or three applications spaced one week apart.

**Interiorscapes:** Before application, thoroughly moisten root zone with water. Mix  $\frac{3}{4}$  teaspoon of TAE GRO per gallon of water (or 1 gram of TAE GRO per 1 liter of water). Stir solution for several minutes to ensure complete suspension. Drench solution onto root zone to ensure coverage to all roots. TAE GRO performs best when applied to seedlings or young plants. For best results, make two or three applications spaced one week apart.

**Orchids and Ferns:** For potted orchids and ferns, follow directions for drenching. For orchids and ferns with exposed roots, prepare 4 grams of TAE GRO in 1 liter of water (or 3 teaspoons of TAE GRO per gallon of water.) Pour solution into spray container (or squirt bottle) and spray roots to point of drip. TAE GRO performs best when applied to seedlings or young plants. For best results, make two or three applications spaced one week apart.

**Tubers, Bulbs and Corms:** Mix 4 grams of TAE GRO in 1 liter of water (or 3 teaspoons of TAE GRO per gallon of water). Stir solution for several minutes to ensure complete suspension. Dip tubers (or bulbs, etc.) for 10 to 30 minutes before planting. For best results, make two or three applications spaced one week apart.

**Turf:** As an overhead spray, mix 75 grams of TAE GRO in 100 gallons of water. Before applying, stir product for several minutes to ensure complete suspension. Apply suspension with a conventional sprayer using 50-100 gallons of water per acre. Water-in TAE GRO immediately after application with a minimum of 1/10 inch of water. For best results, make two or three applications spaced one week apart.

## CHEMIGATION

### General Requirements

Apply this product through overhead sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move; flood (basin); furrow; border or drip (buried or surface placed) irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

A good source for answers if you have questions about calibration is your local State Cooperative Extension Service specialists, equipment manufacturers or university calibration guides.

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 the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

## General Instructions for Use of TAEGRO in Chemigation

**Mixing and Application Instructions:** Fill tank with water to approximately one-half of the desired volume and add TAEGRO, mixing while pouring in TAEGRO. Fill the tank to the desired volume. Continuous agitation of TAEGRO in the tank is required to achieve optimum coverage and crop protection.

Mix 2.6 – 5.2 oz (75-150 grams) of TAEGRO per 20-100 gallons of water in a chemigation tank. Agitation is required in the tank to maintain adequate suspension of Taegro during application. Mechanical agitation is preferred for larger tanks that require longer periods of time for application to larger areas or for more concentrated tanks using lower volumes of water. For foliar diseases, apply no more than 0.1 – 0.25 inches of water per acre as excess chemigation may decrease efficacy. If target disease is in the soil, use 0.25–0.5 inches of water per acre in order to move product into the soil profile, but additional irrigation volumes may be required for optimum coverage depending on soil texture and soil moisture levels at the time of application.

**Compatibility:** TAEGRO is compatible with many commonly used plant protection products and fertilizers, but has not been evaluated with all potential combinations of products. If TAEGRO is applied in combination with other pesticides, determine compatibility prior to application through the irrigation system. To ensure compatibility, conduct a jar test by mixing proportionally scaled down quantities of the desired irrigation components in proportional amount of water. Add wettable powders first (if used, add the non-ionic surfactant at this point), followed by water dispersible granules, then by liquid flowables and lastly, emulsifiable concentrates. Mix thoroughly and let stand for at least ten (10) minutes. If the mix stays in solution or re-suspends, it is physically compatible. If possible, spray the jar mix on a small section of crop to confirm crop safety of the mix. Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures. Do not exceed label dosage rates. This product cannot be mixed with any product containing a label prohibition against such mixing. Test the combination on a small portion of the crop to be treated to ensure that a phyto-toxic response will not occur as a result of application.

## 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 regular 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 (RPZ), back flow preventer 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.

- 4) The pesticide injection pipeline must 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.

### **Requirements for Sprinkler Chemigation**

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

### **Requirements for Flood (Basin), Furrow and Border Chemigation**

- 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.

### **Requirements for Drip (Trickle) Chemigation**

- 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 inter-locking 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.

## APPLICATION RATES

Crop	Diseases	Rate (Oz/Acre)	Application Instructions
<p><b>Leafy Vegetables:</b> (Crop Group 4)</p> <p>Head/Leaf Lettuce Celery Spinach Radicchio Endive Arugula Parsley Rhubarb Swiss Chard and other leafy vegetables listed below</p>	<p>For soil-borne disease [control] [suppression] of:</p> <p>Rhizoctonia Fusarium Sclerotinia</p>	<p>2.6 - 5.2 oz</p>	<ul style="list-style-type: none"> <li>• For <u>Rhizoctonia</u> and <u>Fusarium</u> [control] [suppression], apply at planting (seeded or transplanted) or immediately following through overhead sprinkler, drip injection (surface or buried), in furrow soil spray or with liquid fertilizer at planting.</li> <li>• For sequential applications using overheads, sprinkler, basal sprays or drip injection apply every 7-14 days as needed through the season. When using basal spray incorporate by following with irrigation to soak root zone.</li> <li>• For <u>Sclerotinia</u>, make the first application at planting applied in-furrow or through drip irrigation (buried or surface) to ensure application to the root zone. Initiate sequential applications at lettuce thinning and continuing every 7-14 days depending on disease pressure.</li> <li>• For optimum [control] [suppression] of <i>S. minor</i>, apply TAEGRO to the root zone.</li> <li>• For optimum <i>S. sclerotiorum</i> [control] [suppression], combine drip, soil surface applications and foliar applications at infestation sites (dead or dying tissue).</li> <li>• For fields with historical disease problems use the higher application rate, and shorter application intervals for better efficacy.</li> </ul>
	<p>For foliar [control] [suppression] of:</p> <p>Downy Mildew Powdery mildew White rust Bacterial blight</p>	<p>2.6 – 5.2 oz</p>	<ul style="list-style-type: none"> <li>• Start applications prior to disease or at disease establishment. Apply every 7-14 days alone, or in rotation, or tank mix with other registered fungicides.</li> <li>• Apply enough spray solution for thorough coverage.</li> <li>• The addition of a non-ionic surfactant may improve disease [control] [suppression].</li> </ul>

**[Crops in Leafy Vegetables (Crop Group 4):** Amaranth (Chinese spinach); arugula (roquette); cardoon; celery; celery, Chinese; celtuce; chervil; chrysanthemum, edible-leaved; chrysanthemum, garland; corn salad; cress, garden; cress, upland; dandelion; dock (sorrel); endive (escarole); fennel, Florence; lettuce, head and leaf; orach; parsley; purslane, garden; purslane, winter; radicchio (red chicory); rhubarb; spinach; spinach, New Zealand; spinach, vine; Swiss chard; cultivars, varieties and/or hybrids of these.]

<p><b>Fruiting Vegetables:</b> (Crop Group 8)</p> <p>Tomato Peppers and other fruiting vegetables listed below</p>	<p>Seedling diseases caused by:</p> <p>Rhizoctonia Fusarium Phytophthora Pythium</p> <p>For suppression of:</p> <p>Phytophthora blight (<i>P. capsici</i>)</p>	<p>2.6 - 5.2 oz</p>	<ul style="list-style-type: none"> <li>• For soil disease [control] [suppression] applications, apply as drench on transplants prior to planting.</li> <li>• Apply w/liquid fertilizer or as an in furrow soil spray or drip irrigation injection (surface or buried) at or immediately following planting.</li> <li>• Follow with drip injection or basal sprays every 7-14 days as needed through the season. When using basal spray incorporate by following with irrigation to soak root zone.</li> <li>• For fields with historical <u>Rhizoctonia</u>, <u>Fusarium</u>, <u>Phytophthora</u> and <u>Pythium</u> problems, apply at the shorter frequency intervals for better efficacy.</li> </ul>
	<p>For foliar [control] [suppression] of:</p> <p>Powdery Mildew Early Blight Late Blight Bacterial Speck – (<i>Pseudomonas</i> spp) Bacterial Spot – (<i>Xanthomonas</i> spp.)</p>	<p>2.6 – 5.2 oz</p>	<ul style="list-style-type: none"> <li>• Start foliar disease [control] [suppression] applications prior to disease or at disease establishment. Apply every 7-14 days alone, or in rotation, or tank mix with other registered fungicides. Established or heavier disease pressure may require switching to rotations with or to chemical fungicides for greater efficacy.</li> <li>• Apply enough spray solution for thorough coverage.</li> <li>• The addition of a non-ionic surfactant may improve disease [control] [suppression].</li> </ul>

**[Crops in Fruiting Vegetables (Crop Group 8):** African eggplant; bush tomato; bell pepper; cocona; currant tomato; eggplant; garden huckleberry; goji berry; groundcherry; martynia; naranjilla; okra; pea eggplant; pepino; pepper, bell; pepper, nonbell; roselle; scarlet eggplant; sunberry; tomatillo; tomato; tree tomato; cultivars, varieties, and/or hybrids of these.]

<p><b>Cucurbits:</b> (Crop Group 9)</p> <p>Cantaloupe Honey Dew Cucumber Squash Watermelon and other cucurbits listed below</p>	<p>Seedling diseases caused by:</p> <p>Rhizoctonia Fusarium Phytophthora Pythium</p> <p>For suppression of:</p> <p>Phytophthora blight (<i>P. capsici</i>)</p>	<p>2.6 - 5.2 oz</p>	<ul style="list-style-type: none"> <li>• For soil disease [control] [suppression], apply as drench on transplants prior to planting.</li> <li>• Apply at planting or immediately following planting as an in furrow soil spray, drip irrigation (buried or surface) or with liquid fertilizer.</li> <li>• Follow with drip irrigation or basal sprays every 7-14 days as needed through the season. When using basal spray incorporate by following with irrigation to soak root zone.</li> <li>• For fields with historical <u>Rhizoctonia</u>, <u>Fusarium</u>, <u>Phytophthora</u> and <u>Pythium</u> problems, apply at the shorter frequency intervals for better efficacy.</li> <li>• Established or heavier disease pressure may require switching to rotations with or to chemical fungicides for greater efficacy.</li> </ul>
	<p>For foliar [control] [suppression] of:</p> <p>Powdery Mildew Gummy stem blight</p>	<p>2.6 - 5.2 oz</p>	<ul style="list-style-type: none"> <li>• For foliar disease [control] [suppression], start applications prior to disease or at disease establishment. Apply every 7-14 days alone, or in rotation, or tank mix with other registered fungicides. Established or heavier disease pressure may require switching to rotations with or to chemical fungicides for greater efficacy.</li> </ul>
<p><b>[Crops in Cucurbits (Crop Group 9):</b> Chayote (fruit); Chinese waxgourd (Chinese preserving melon); citron melon; cucumber; gherkin; gourd, edible (includes hyotan, cucuzza, hechima, Chinese okra); <i>Momordica</i> spp (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); muskmelon (includes cantaloupe); pumpkin; squash, summer; squash, winter (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash); watermelon; cultivars, varieties and/or hybrids of these.]</p>			
<p><b>Ornamentals:</b></p>	<p>Rhizoctonia Fusarium Phytophthora Pythium</p>	<p>2.6 – 5.2 oz</p>	<ul style="list-style-type: none"> <li>• Apply enough solution to thoroughly soak the root zone in growing media.</li> <li>• Start applications prior to disease or at disease establishment. Apply every 7-14 days alone, or in rotation, or tank mix with other registered fungicides.</li> </ul>



<b>Brassica Vegetables:</b> (Crop Group 5)  Broccoli Brussels sprouts Cabbage Cauliflower Collards Kale Mustard greens (all crops in head/steam subgroup 5A and leafy greens subgroup 5B) listed below	For [control] [suppression] of seedling diseases caused by:  Rhizoctonia Pythium	2.6 – 5.2 oz	<ul style="list-style-type: none"> <li>For soil disease [control] [suppression], apply as drench on transplants prior to planting.</li> <li>Apply at planting or immediately following planting as an in furrow soil spray, drip irrigation (buried or surface) or with liquid fertilizer.</li> <li>Follow with drip irrigation or basal sprays every 7-14 days as needed through the season. When using basal spray incorporate by following with irrigation to soak root zone.</li> <li>For fields with historical <u>Rhizoctonia</u> and <u>Pythium</u> problems, apply at the shorter frequency intervals for better efficacy.</li> <li>Established or heavier disease pressure may require switching to rotations with or to chemical fungicides for greater efficacy.</li> </ul>
	For foliar [control] [suppression] of:  Downy mildew Alternaria Powdery mildew Xanthomonas leafspot	2.6 – 5.2 oz	<ul style="list-style-type: none"> <li>For foliar disease [control] [suppression], start applications prior to disease or at disease establishment. Apply every 7-14 days alone, or in rotation, or tank mix with other registered fungicides.</li> <li>Established or heavier disease pressure may require switching to rotations with or to chemical fungicides for greater efficacy.</li> </ul>
<b>[Crops in Brassica Vegetables (Crop Group 5):</b> Broccoli; broccoli, Chinese (gai lon); broccoli raab (rapini); Brussels sprouts; cabbage; cabbage, Chinese (bok choy); cabbage, Chinese (napa); cabbage, Chinese mustard(gai choy); cauliflower; cavalo broccolo; collards; kale; kohlrabi; mizuna; mustard greens; mustard spinach; rape greens ; cultivars, varieties and/or hybrids of these.]			

<p><b>Bulb Vegetables:</b> (Crop Group 3)</p> <p>Onion, bulb Onion, green Garlic Shallot Leeks and other bulb vegetables listed below</p>	<p>For [control] [suppression] of seedling diseases caused by:</p> <p>Rhizoctonia Pythium</p>	2.6 – 5.2 oz	<ul style="list-style-type: none"> <li>• For soil disease [control] [suppression], apply as drench on transplants prior to planting.</li> <li>• Apply at planting or immediately following planting as an in furrow soil spray, drip irrigation (surface or buried) or with liquid fertilizer.</li> <li>• Follow with drip irrigation or basal sprays every 7-14 days as needed through the season. When using basal spray incorporate by following with irrigation to soak root zone.</li> <li>• For fields with historical <u>Rhizoctonia</u> and <u>Pythium</u> problems, apply at the shorter frequency intervals for better efficacy.</li> <li>• Established or heavier disease pressure may require switching to rotations with or to chemical fungicides for greater efficacy.</li> </ul>
	<p>For foliar [control] [suppression] of:</p> <p>Downy Mildew Botrytis Alternaria Powdery mildew</p>	2.6 – 5.2 oz	<ul style="list-style-type: none"> <li>• For foliar disease [control] [suppression], start applications prior to disease or at disease establishment. Apply every 7-14 days alone, or in rotation, or tank mix with other registered fungicides</li> <li>• Established or heavier disease pressure may require switching to rotations with or to chemical fungicides for greater efficacy.</li> </ul>
<p><b>[Bulb Vegetables (Crop Group 3-07):</b> Chive, fresh leaves; chive, Chinese, fresh leaves; daylily, bulb; elegans hosta; fritillaria, bulb; fritillaria, leaves; garlic, bulb; garlic, great-headed, bulb; garlic, serpent, bulb; kurrat; lady's leek; leek; leek, wild; lily, bulb; onion, Beltsville bunching; onion, bulb; onion, Chinese, bulb; onion, fresh; onion, green; onion, macrostem; onion, pearl; onion, potato, bulb; onion, tree, tops; onion, Welsh, tops; shallot, bulb; shallot, fresh leaves; cultivars, varieties, and/or hybrids of these.]</p>			

<p><b>Legume Vegetables:</b> (Crop Groups 6 and 7)</p> <p>(dried and succulent and includes foliage of legume group)</p> <p>Beans Peas and other legume vegetables listed below</p> <p>Soybeans</p>	<p>For [control] [suppression] of seedling diseases caused by:</p> <p>Rhizoctonia Pythium</p> <p>For suppression of:</p> <p>Sclerotinia blight (S. sclerotiorum)</p> <p>For seedling diseases:</p> <p>Pythium Rhizoctonia Phytophthora</p> <p>For suppression of:</p> <p>White mold (Sclerotinia)</p>	<p>2.6 – 5.2 oz</p>	<ul style="list-style-type: none"> <li>• For seedling diseases, apply at planting or immediately following planting as an in furrow soil spray, drip irrigation (surface or buried) or with liquid fertilizer.</li> <li>• Follow with drip irrigation or basal sprays every 7-14 days as needed through the season. When using basal spray incorporate by following with irrigation to soak root zone.</li> <li>• For fields with historical <u>Rhizoctonia</u> and <u>Pythium</u> problems, apply at the shorter frequency intervals for better efficacy.</li> <li>• Established or heavier disease pressure may require switching to rotations with or to chemical fungicides for greater efficacy.</li> <li>• For suppression of <u>Sclerotinia</u> blight, apply as a foliar spray at 10% flowering. Follow with sequential applications to provide protection of dead or dying tissue prior to <u>Sclerotinia</u> establishment.</li> <li>• For seedling diseases, apply at planting or immediately following planting as an in furrow soil spray or with liquid fertilizer.</li> <li>• Follow with drip irrigation or basal sprays every 7-14 days as needed through the season. When using basal spray incorporate by following with irrigation to soak root zone.</li> <li>• For suppression of <u>Sclerotinia</u>, apply at 10% flowering. Follow with sequential applications to provide protection of dead or dying tissue prior to <u>Sclerotinia</u> establishment.</li> <li>• For optimum <u>Sclerotinia</u> [control] [suppression], combine drip, soil surface applications and foliar applications at infestation sites (dead or dying tissue).</li> <li>• For fields with historical disease problems, apply at the high application rate, and shorter application intervals for better efficacy.</li> <li>• Established or heavier disease pressure may require switching to</li> </ul>
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rotations with or to chemical fungicides for greater efficacy.

**[Legume Vegetables (Crop Groups 6 and 7):** Bean ( *Lupinus* ) (includes grain lupin, sweet lupin, white lupin, and white sweet lupin); bean ( *Phaseolus* ) (includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean); bean ( *Vigna* ) (includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean); broad bean (fava); chickpea (garbanzo); guar; jackbean; lablab bean; lentil; pea ( *Pisum* ) (includes dwarf pea, edible-podded pea, English pea, field pea, garden pea, green pea, snowpea, sugar snap pea); pigeon pea; soybean; soybean (immature seed); sword bean; cultivars, varieties, and/or hybrids of these.]

<p><b>Root and Tuber Vegetables:</b> (Crop Groups 1 and 2)</p> <p>(and includes foliar of Root and Tuber Vegetables)</p> <p>Carrots Potatoes Sweet Potatoes Yams Radish Sugarbeets and other root and tuber vegetables listed below</p>	<p>For [control] [suppression] of seedling and tuber diseases:</p> <p>Pythium Phytophthora Rhizoctonia Verticillium Sclerotinia</p>	2.6 – 5.2 oz	<ul style="list-style-type: none"> <li>• For soil disease [control] [suppression], apply at planting as an in-furrow soil spray, drip irrigation (surface or buried) or with liquid fertilizer at planting.</li> <li>• Follow with applications every 7-14 days with drip chemigation or post-directed sprays.</li> <li>• For best placement to the soil area, apply via chemigation every 7-14 days until row closure.</li> <li>• If applications made via post-directed sprays, following with irrigation to soak root zone.</li> <li>• For fields with historical problems, apply at the shorter frequency intervals for better efficacy.</li> <li>• Established or heavier disease pressure may require switching to rotations with or to chemical fungicides for greater efficacy.</li> </ul>
	<p>For foliar [control] [suppression] of:</p> <p>Early blight Late Blight Downy mildew Powdery mildew Leaf spots Botrytis</p>	2.6 – 5.2 oz	<ul style="list-style-type: none"> <li>• For foliar disease [control] [suppression], start applications prior to disease or at disease establishment. Apply every 7-14 days alone, or in rotation, or tank mix with other registered fungicides.</li> <li>• Established or heavier disease pressure may require switching to rotations with or to chemical fungicides for greater efficacy.</li> </ul>
<p><b>[Root and Tuber Vegetables (Crop Groups 1 and 2):</b> Arracacha; arrowroot; artichoke, Chinese; artichoke, Jerusalem; beet, garden; beet, sugar; burdock, edible; canna, edible; carrot; cassava, bitter and sweet; celeriac; chayote (root); chervil, turnip-rooted; chicory; chufa; dasheen (taro); ginger; ginseng; horseradish; leren; parsley, turnip-rooted; parsnip; potato; radish; radish, oriental; rutabaga; salsify; salsify, black; salsify, Spanish; skirret; sweet potato; tanier; turmeric; turnip; yam bean; yam, true.]</p>			

<p><b>Berry and small fruit:</b> (Crop Group 13)</p> <p>Grapes Berries, cane Berries, bush Strawberries and other berries and small fruit listed below</p>	<p>For [control] [suppression] of seedling and crown diseases:</p> <p>Pythium Phytophthora Rhizoctonia Verticillium</p>	<p>2.6 – 5.2 oz</p>	<ul style="list-style-type: none"> <li>• For soil disease [control] [suppression], apply as a drench on transplants prior to planting.</li> <li>• For seedling diseases, apply at planting as an in-furrow spray or with liquid fertilizer or immediately following planting through drip irrigation (buried or surface) or as a basal spray.</li> <li>• Follow with drip irrigation or basal sprays every 7-14 days as needed through the season. When using basal spray incorporate by following with irrigation to soak root zone.</li> <li>• For fields with historical <u>Rhizoctonia</u>, and <u>Pythium</u> problems, apply at the shorter frequency intervals for better efficacy.</li> <li>• Established or heavier disease pressure may require switching to rotations with or to chemical fungicides for greater efficacy.</li> </ul>
	<p>For foliar [control] [suppression] of:</p> <p>Powdery mildew Botrytis Downy mildew Anthracnose Mummyberry (Monilinia) Bacterial Canker (Pseudomonas spp.)</p>	<p>2.6 – 5.2 oz</p>	<ul style="list-style-type: none"> <li>• For foliar disease [control] [suppression], start applications prior to disease or at disease establishment. Apply every 7-14 days alone, or in rotation, or tank mix with other registered fungicides.</li> <li>• Established or heavier disease pressure may require switching to rotations with or to chemical fungicides for greater efficacy.</li> </ul>
<p><b>[Berry and small fruits (Crop Group 13):</b> Amur river grape; aronia berry; bayberry; bearberry; bilberry; blackberry (including Andean blackberry, arctic blackberry, bingleberry, black satin berry, boysenberry, brombeere, California blackberry, Chesterberry, Cherokee blackberry, Cheyenne blackberry, common blackberry, coryberry, darrowberry, dewberry, Dirksen thornless berry, evergreen blackberry, Himalayaberry, hullberry, lavacaberry, loganberry, lowberry, Lucretiaberry, mammoth blackberry, marionberry, mora, mures deronce, nectarberry, Northern dewberry, olallieberry, Orgeon evergreen berry, phenomenalberry, rangeberry, ravenberry, rossberry, Shawnee blackberry, Southern dewberry, tayberry, youngberry, zarzamora, and cultivars, varieties and/or hybrids of these); blueberry, highbush; blueberry, lowbush; buffalo currant; buffaloberry; che; Chilean guava; chokecherry; cloudberry; cranberry; cranberry, highbush; currant, black; currant, red; elderberry; European barberry; gooseberry; grape; honeysuckle, edible; huckleberry; jostaberry; Juneberry (Saskatoon berry); kiwifruit, fuzzy; kiwifruit, hardy; lingonberry; maypop; mountain pepper berries; mulberry; muntries; native currant; partridgeberry; phalsa; pincherry; raspberry, black and</p>			

red; riberry; salal; schisandra berry; sea buckthorn; serviceberry; strawberry; wild raspberry;  
cultivars, varieties, and/or hybrids of these ]



<p><b>Cereals, small grain:</b> (Crop Groups 15 and 16)</p> <p>Wheat Barley</p>	<p>Suppression of:  Fusarium head blight</p>	<p>2.6 – 5.2 oz</p>	<ul style="list-style-type: none"> <li>• Best timing for [control] [suppression] is prior to disease establishment upon head emergence. Tank mix with chemical fungicides or as a sequential application following chemical fungicides at 5-10 days.</li> </ul>
<p><b>Corn</b></p> <p>Corn, field Corn, pop Corn, sweet</p> <p>And other corn types listed below</p>	<p>For seedling diseases:</p> <p>Pythium Rhizoctonia</p>	<p>2.6 – 5.2 oz</p>	<ul style="list-style-type: none"> <li>• For seedling diseases, apply at planting or immediately following planting as an in furrow soil spray or with liquid fertilizer.</li> <li>• Follow with drip irrigation or basal sprays every 7-14 days as needed through the season. When using basal spray incorporate by following with irrigation to soak root zone.</li> <li>• For fields with historical <u>Rhizoctonia</u> and <u>Pythium</u> problems, apply at the shorter frequency intervals for better efficacy.</li> <li>• Established or heavier disease pressure may require switching to rotations with or to chemical fungicides for greater efficacy.</li> </ul>
	<p>For foliar diseases:</p> <p>Common rust Leaf blights</p>		<ul style="list-style-type: none"> <li>• Start applications prior to disease or at disease establishment. Apply every 7-14 days alone, or in rotation, or tank mix with other registered fungicides</li> <li>• Established or heavier disease pressure may require switching to rotations with or to chemical fungicides for greater efficacy.</li> </ul>

<p><b>Oil Seed Crops:</b> (Crop Group 20)</p> <p>Sunflower Canola and other oil seed crops listed below</p>	<p>For seedling diseases:</p> <p>Pythium Rhizoctonia Phytophthora</p> <p>For suppression of:</p> <p>White mold (Sclerotinia)</p>	<p>2.6 – 5.2 oz</p>	<ul style="list-style-type: none"> <li>• For seedling diseases, apply at planting or immediately following planting as an in furrow soil spray or with liquid fertilizer.</li> <li>• Follow with drip irrigation or basal sprays every 7-14 days as needed through the season. When using basal spray incorporate by following with irrigation to soak root zone.</li> <li>• For suppression of <u>Sclerotinia</u>, apply at 10% flowering. Follow with sequential applications to provide protection of dead or dying tissue prior to <u>Sclerotinia</u> establishment.</li> <li>• For optimum <u>Sclerotinia</u> [control] [suppression], combine drip, soil surface applications and foliar applications at infestation sites (dead or dying tissue).</li> <li>• Established or heavier disease pressure may require switching to rotations with or to chemical fungicides for greater efficacy.</li> </ul>
<p><b>[Oil Seed (Crop Group 20):</b> Borage; calendula; castor oil plant; Chinese tallowtree; cottonseed; crambe; cuphea; echium; euphorbia; evening primrose; flax seed; gold of pleasure; hare's ear mustard; jojoba; lesquerella; lunaria; meadowfoam; milkweed; mustard seed; niger seed; oil radish; poppy seed; rapeseed; rose hip; safflower; sesame; stokes aster; sunflower; sweet rocket; tallowwood; tea oil plant; vernonia; cultivars, varieties, and/or hybrids of these ]</p>			
<p><b>Edible Fungi:</b> (Crop Group 21)</p> <p>Mushrooms and other edible fungi listed below</p>	<p>Green mold</p>	<p>2.6 – 5.2 oz</p>	<ul style="list-style-type: none"> <li>• Mix TAEGRO into spawn medium at a rate of 10 grams per cubic foot. Thoroughly mix, using mechanical mixing equipment, to ensure a uniform distribution of product.</li> </ul>
<p><b>[Edible Fungi (Crop Group 21):</b> Blewitt; bunashimeji; Chinese mushroom; enoki; hime-matsutake; hirmeola; maitake; morel; nameko; net bearing Dictyophora; oyster mushroom; pom pom; reishi mushroom; Rodman's agaricus; Shiitake mushroom ; shimeji; stropharia; truffle; white button mushroom; white jelly fungi.]</p>			
<p><b>Herbs and Spices:</b> (Crop Group 19)</p>	<p>For [control] [suppression] of seedling and crown diseases:</p> <p>Fusarium Pythium Phytophthora Rhizoctonia Verticillium</p>	<p>2.6 – 5.2 oz</p>	<ul style="list-style-type: none"> <li>• For seedling diseases, apply at planting or immediately following planting as an in furrow soil spray or with liquid fertilizer.</li> <li>• Follow with drip irrigation or basal sprays every 7-14 days as needed through the season. When using basal spray incorporate by following with irrigation to soak root zone.</li> </ul>

			<ul style="list-style-type: none"> <li>• For fields with historical problems, apply at the shorter frequency intervals for better efficacy.</li> <li>• Established or heavier disease pressure may require switching to rotations with or to chemical fungicides for greater efficacy.</li> </ul>
<p><b>[Herbs and Spices (Crop Group 19):</b> Allspice; angelica; anise; anise, star; annatto (seed); balm; basil; borage; burnet; camomile; caper buds; caraway; caraway, black; cardamom; cassia bark; cassia buds; catnip; celery seed; chervil (dried); chive; chive, Chinese; cinnamon; clary; clove buds; corainder leaf (cilantro or Chinese parsley); coriander seed (cilantro); costmary; cilantro (leaf); culantro (seed); cumin; curry (leaf); dill (dillweed); dill (seed); fennel (common); fennel, Florence (seed); fenugreek; grains of paradise, horehound; hyssop; juniper berry; lavender; lemongrass; lovage (leaf); lovage (seed); mace; marigold, marjoram; mustard (seed); nasturtium; nutmeg; parsley (dried); pennyroyal; pepper, black; pepper, white; poppy (seed); rosemary; rue; saffron; sage; savory, summer and winter; sweet bay; tansy; tarragon; thyme; vanilla; wintergreen; woodruff; wormwood.]</p>			

<b>Citrus:</b> (Crop Group 10)  Oranges Lemons Limes Grapefruit and other citrus crops listed below	For suppression of:  Phytophthora	2.6 – 5.2 oz Per 100 gallons of water	<ul style="list-style-type: none"> <li>Apply through drip irrigation (buried or surface) or drench applications to thoroughly soak the root zone to provide adequate protection. Soil type will determine how much irrigation is required to thoroughly penetrate root zone.</li> <li>Start sequential applications at 7-14 days and repeated based on disease severity.</li> </ul>
	Greasy spot Post bloom fruit drop Scab Melanose Alternaria leafspot	2.6 – 5.2 oz per 100 gallons of water	<ul style="list-style-type: none"> <li>Start applications prior to disease or at disease establishment. Apply every 7-14 days alone, or in rotation, or tank mix with other registered fungicides.</li> </ul>
<b>[Citrus (Crop Group 10):</b> Australian desert lime; Australian finger-lime; Australian round lime; Brown River finger lime; calamondin; citron; citrus hybrids; grapefruit; Japanese summer grapefruit; kumquat; lemon; lime; Mediterranean mandarin; mount white lime; New Guinea wild lime; orange, sour; orange, sweet; pummelo; Russell River lime; satsuma mandarin; sweet lime; tachibana orange; Tahiti lime; tangelo; tangerine (mandarin); tangor; trifoliate orange; uniq fruit; cultivars, varieties, and/or hybrids of these ]			
<b>Pome Fruit:</b> (Crop Group 11)	For suppression of:  Fire blight (Erwinia amylovra)	2.6 – 5.2 oz per 100 gallons of water	<ul style="list-style-type: none"> <li>For dormant or prior to disease initiating, start applications every 3- 7days alone, or in rotation, or tank mix with other registered product for fire blight. Adequate coverage and penetration into infection sites is critical for acceptable [control] [suppression].</li> <li>It is important to use a volume that provides thorough coverage of the infection sites.</li> </ul>
<b>[Pome Fruit (Crop Group 11):</b> Apple; azarole; crabapple; loquat; mayhaw; medlar; pear; pear, Asian; quince; quince, Chinese; quince, Japanese; tejocote; cultivars, varieties, and/or hybrids of these.]			
<b>Tree Nuts:</b> (Crop Group 14)	For suppression of:  Monilinia Walnut blight Anthracnose Shot hole	2.6 – 5.2 oz per 100 gallons of water	<ul style="list-style-type: none"> <li>Start applications prior to disease or at disease establishment. Apply every 3- 7days alone, or in rotation, or tank mix with other registered fungicide.</li> <li>Initiate applications prior to pink bud stage (5% bloom) and follow with sequential applications as needed or in a program with registered fungicides as an IPM program.</li> <li>Established or heavier disease pressure may require switching to</li> </ul>

			rotations with or to chemical fungicides for greater efficacy.
<b>[Tree Nuts (Crop Group 14):</b> Almond; beechnut; Brazil nut; butternut; cashew; chestnut; chinquapin; filbert (hazelnut); hickory nut; macadamia nut; pecan; walnut, black and English.]			

<b>Stone Fruit:</b> (Crop Group 12)	For suppression of:  Monilinia Powdery mildew Botrytis Bacterial leaf spot	2.6 – 5.2 oz per 100 gallons of water	<ul style="list-style-type: none"> <li>• Start applications prior to disease or at disease establishment. Apply every 3- 7days alone, or in rotation, or tank mix with other registered fungicide.</li> <li>• Initiate applications prior to pink bud stage (5% bloom) and follow with sequential applications as needed or in a program with registered fungicides as an IPM program.</li> <li>• Established or heavier disease pressure may require switching to rotations with or to chemical fungicides for greater efficacy.</li> </ul>
<b>[Stone Fruit (Crop Group 12):</b> Apricot; cherry, sweet; cherry, tart; nectarine; peach; plum; plum, Chickasaw; plum, Damson; plum, Japanese; plumcot; prune (fresh).]			
<b>Tropical Fruits:</b>  Lychee Papaya Avocado Guava Banana Plantain and other tropical fruit listed below	For suppression of:  Anthracnose Sigatoka	2.6 – 5.2 oz per 100 gallons of water	<ul style="list-style-type: none"> <li>• Start applications prior to disease or at disease establishment. Apply every 3- 7days alone, or in rotation, or tank mix with other registered fungicide.</li> <li>• Established or heavier disease pressure may require switching to rotations with or to chemical fungicides for greater efficacy.</li> </ul>
<b>[Tropical fruits include:</b> Acerola, atemoya, avocado, banana, biriba, black sapote, canistel, cherimoya, custard apple, feijoa, guava, ilama, jaboticaba, lychee, longan, mamey sapote, mango, papaya, passion fruit, plantain, pulasan, rambutan, sapodilla, soursop, Spanish lime, star apple, star fruit, sugar apple, wax jambu.]			
<b>Rice</b>	For seedling diseases:  Rhizoctonia Pythium	2.6 – 5.2 oz	<ul style="list-style-type: none"> <li>• For seedling diseases, apply at planting or immediately following planting as an in furrow soil spray or with liquid fertilizer.</li> </ul>
For suppression of foliar diseases:  Sheath blight (Rhizoctonia) Bacterial blight and Streak (Xanthomonas) Sheath spot (R. oryzae)	<ul style="list-style-type: none"> <li>• Start applications prior to disease or at disease establishment. For improved [control] [suppression], apply every 7-14 days in rotation or tank mix with other registered fungicide.</li> </ul>		

	Leaf spots		
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[TAEGR0 can also be used [via [soil] [or] [foliar] application] for the following listed uses: [vegetables,] [tree[s],] [vine[s],] [bushes,] and other crops], [herbs and spices,] [ornamental,] [shrubs, shade [trees] and forest trees,] and [turf].

### SPECIALTY VEGETABLES

Asparagus	Guar	Jucabbu	Wasabi
Flowers, Edible	Jicama	Lupin	

Soil-borne diseases:  Rhizoctonia Pythium Fusarium Phytophthora Sclerotinia	2.6 – 5.2 oz/A	May be used in a program (tank mix or alternation) with other fungicides registered for these diseases/crops. <ul style="list-style-type: none"> <li>• Apply as drench on transplants prior to planting.</li> <li>• Apply at planting or immediately following planting as an in furrow soil spray or with liquid fertilizer.</li> <li>• Follow with drip irrigation or basal sprays every 7-14 days as needed through the season. When using basal spray incorporate by following with irrigation to soak root zone.</li> <li>• For optimum <u>Sclerotinia</u> [control] [suppression], combine drip, soil surface applications and foliar applications at infestation sites (dead or dying tissue).</li> <li>• For fields with historical <u>soil-borne disease</u> problems, apply at the shorter frequency intervals for better efficacy.</li> </ul>
Foliar diseases:  Powdery mildew Downy mildew Botrytis Alternaria	2.6 – 5.2 oz/A	<ul style="list-style-type: none"> <li>• Start applications prior to disease or at disease establishment. Apply every 7-14 days alone, or in rotation, or tank mix with other registered fungicides</li> </ul>

**Seed Beds and Seedling Plants:** Apply TAEGR0 to seed beds, seedlings or newly rooted cuttings. Drench soil with the TAEGR0 suspension making sure TAEGR0 is thoroughly drenched around the seed or into the root zone.

Mix and Apply TAEGR0 as follows:

- Per 100 gallons of water – [By weight,] use 2.6 - 5.2 oz (75-150 grams) of TAEGR0; [By volume,] use 3.5-7.0 fluid ounces of TAEGR0.
- Per 1 gallon of water – [By weight,] use 0.05 oz (1.5 grams) of TAEGR0.

## **WARRANTY**

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. Novozymes Biologicals, Inc. warrants that at the time of the first sale of this product it conforms to the chemical description on the label and when used according to the label directions under normal growing conditions is reasonably fit for the purposes referred to above. To the extent consistent with applicable law, Buyers/Users of this product assume full risk for any use contrary to the specified directions. If this product does not perform as warranted above and to the extent consistent with applicable law, customer's sole remedy for breach of warranty shall be replacement of the product or refund of the purchase price paid, at the option of Novozymes Biologicals, Inc. EXCEPT AS PROVIDED ELSEWHERE IN WRITING CONTAINING AN EXPRESS REFERENCE TO THIS WARRANTY AND LIMITATION OF DAMAGES, SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OR GUARANTEE TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY, AND NO AGENT OF SELLER IS AUTHORIZED TO DO SO.

## **STORAGE AND DISPOSAL**

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

### **PESTICIDE STORAGE**

TAEGRO consists of living microbes. Store at room temperature and use before the expiration date. Avoid temperatures exceeding 73°F (23°C). Do not freeze. Close opened packages tightly.

### **PESTICIDE DISPOSAL**

To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

### **CONTAINER DISPOSAL**

Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. Then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration. Do not burn unless allowed by state and local ordinances.

{Note to reviewer: This product is sold in a flexible plastic/foil lined bag.}



**{START OPTIONAL CROP LISTING}****TREE, VINE, BUSH AND OTHER CROPS**

Coconuts	Loquat	Persimmon	<b>Tamarind</b>
Coffee	Nursery Crops	Pineapples	
Hops	Olives	Pomegranates	

**SHRUBS**

Abelia	Ceanothus	Hibiscus	Photina
Andromeda	Cleyera	Hickory	Pittosporum
Arborvitae	Cordyline	Holly	Podocarpus
Aucuba	Crape Myrtle	Hydrangea	Poinciana
Azalea	Crotoneaster	Indian Hawthorne	Privet
Bamboo	Cuttings	Juniper	Pyracantha
Barberry	Daphne	Laurel	Quince, Ornamental
Beauty Bush	Deutzia	Leucothoe	Rhamnus
Bedding Plants	Elderberry	Liqustrum	Rhododendron
Blueberry, Ornamental	Escallonia	Lilac	Rockrose
Bog Rosemary	Eugenia	Lippia	Rose
Bottlebrush	Euonymus	Manzanita	Santolina
Boxwood	Fig	Mock Orange	Snowberry
Bridal Wreath	Firethorn	Nandina	Spicebrush
Broom	Forsythia	Nursery Crops	Spirae
Buckthorn	Fuchsia	Oleander	St. John's Wort
Camellia	Guava	Oregon Grape	Viburnum
Caragana	Hawthorn	Osmanthus	Wax Myrtle
Carex	Heath	Pachistima	Weigla
Carob	Heather	Pachysandra	Yew

**SHADE AND FOREST TREES**

Acacia	Cottonwood	Holly	Pine
Alder	Crabapple	Hornbeam	Poplar
Ash	Cuttings	Ironwood	Privet
Aspen	Cypress	Juneberry	Quince
Basswood	Dogwood	Juniper	Redbud
Bedding Plants	Douglas Fir	Larch	Redwood
Beech	Elder	Linden	Sassafras
Birch	Elm	Locust	Sourwood
Buckeye	Fir	Magnolia	Spruce
Butternut	Forest Seedlings	Maple	Sumac
Catalpa	Forest Trees	Mimosa	Sycamore

Cedar	Gingko	Mulberry	Tamarack
Chamaecyparis	Gum	Myrtle	Tulip Tree
Cherry, Wild	Hackberry	Nursery Crops	Willow
Chestnut	Hawthorn	Oak	Yellowwood
Christmas Trees	Hemlock	Palm	
Conifers	Hickory	PawPaw	

**TURF**

Athletic Fields	Centipedegrass	Lawns, Commercial	Ryegrass, Perennial
Bahiagrass	Dichondra	Lawns, Industrial	Sod Farms
Bedding Plants	Fescue	Lawns, Institutional	St. Augustine Grass
Bentgrass	Golf Course, Fairways	Lawns, Residential	Turf, Commercial
Bermudagrass	Golf Course, Greens	Nursery Crops	Turf, Newly Plugged
Bluegrass, Kentucky	Golf Course, Roughs	Parks	Turf, Newly Sodded
Carpetgrass	Golf Course, Tees	Ryegrass, Annual	Zoysiagrass

**{END OPTIONAL CROP LISTING}**

{Note: The following information will affixed to the unit package}

TAEGRO™

[Fungicide][For Suppression of Certain Diseases]

[TAEGRO is an Agricultural Biofungicide/Bactericide for Suppression of Certain Diseases]

[For Plant Strengthening, Growth Enhancement and Suppression of Certain Diseases]

	% w/w
ACTIVE INGREDIENT: <i>Bacillus subtilis</i> var. <i>amyloliquefaciens</i> Strain FZB24* .....	10.4%
OTHER INGREDIENTS.....	89.6%
Total.....	100.0%

\*Contains a minimum of  $1.0 \times 10^{10}$  Colony Forming Units [(CFU)]/gram of product.

KEEP OUT OF REACH OF CHILDREN

**WARNING/AVISO**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See attached booklet for [additional] [Precautionary Statements,] [First Aid,] complete Directions for Use, and Warranty.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

WARNING - Causes skin irritation. Do not get on skin or on clothing. Causes moderate eye irritation. Avoid contact with eyes. Harmful if absorbed through skin, inhaled or swallowed. Avoid breathing dust or spray mist. 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.

## FIRST AID

IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
IF IN EYES:	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
IF INHALED:	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li></ul>
IF SWALLOWED:	<ul style="list-style-type: none"><li>• Call a Poison Control Center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>

### 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.

Net contents: [8.8 ounces (250 gm); or 13.2 oz (375 gm); or 1 pound (lb.) 10.5 oz (750 gm)]

Novozymes Biologicals, Inc.  
5400 Corporate Circle • Salem, VA 24153, USA  
1-800-342-6173

EPA Reg. No. 70127-5  
EPA Est. No. [EPA ESTABLISHMENT NO.]  
Made in USA

[NOVOZYMES RETHINK TOMORROW] [LOGO]

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