

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

December 4, 2023

Marbury Jacobs Authorized Agent for AFS32321 Crop Protection, Inc Delta Analytical Corporation 12510 Prosperity Drive, Suite 160 Silver Spring, MD 20904

Subject: Pesticide Registration Improvement Act (PRIA) Labeling Amendment – Addition of

National Organic Program and OMRI Text and Logo, Post Harvest Application Use Restrictions, Revised Respirator Text, Seed Treatment Use Restriction and Dye

Colorant Statement; and Removal of Residential Lawn Use Site.

Product Name: Theia Fungicide EPA Registration Number: 94713-2 EPA Receipt Date: 06/01/2023 Action Case Number: 00452563

Dear Mr. Jacobs:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is 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.

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 (EPA). 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 CFR § 156.10(a)(5) lists examples of statements 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 EPA find or if it is brought to our attention that a website contains or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to 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.

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If you have any questions, please contact Susanne Cerrelli by phone at (202) 566-1516 or via email at cerrelli.susanne@epa.gov.

Sincerely,

Digitally signed by

CODY KENDRICK CODY KENDRICK Date: 2023.12.04

10:48:40 -08'00'

Cody Kendrick, Senior Regulatory Advisor Microbial Pesticides Branch Biopesticides and Pollution Prevention Division (7511M) Office of Pesticide Programs

Enclosures

- EPA stamped Theia Fungicide label
- Product chemistry assessment dated 8/30/2023



ACCEPTED

Dec 04, 2023

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under

EPA Reg. No. 94713-2

[For Organic Production] [For Organic Gardening] [For Organic Lawn Care] and [For Use in Organic Production]





ACTIVE INGREDIENT:

Bacillus subtilis strain AFS032321†	<u>100.0%</u>
TOTAL	100.0%
†Contains not less than 1.0 x 10 ⁹ CFU/g of product.	

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE INSIDE FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

	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 do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person. 				
	HOTI INF NUMBER				

HOTLINE 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. For information on this pesticide product (including general health concerns or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378, Monday through Friday, 8:00 AM to 12:00 PM Pacific Standard Time. In the event of a medical emergency, call your poison control center at 1-800-222-1222.

See label booklet for complete Precautionary Statements, Directions for Use, and Storage and Disposal.

[Brackets indicate optional text.]

EPA Registration No.: 94713-2

EPA Est. No.: XXXX-XX



PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if absorbed through skin, swallowed, or inhaled. Avoid contact with skin, eyes or clothing. Causes moderate eye irritation. 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:

- Shoes plus socks
- · Long pants and long-sleeved shirt
- Waterproof gloves

Mixer/loaders and applicators must wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any N, R, or P filter; OR a NIOSH-approved elastomeric particulate respirator with any N, R, or P filter; OR a NIOSH-approved powered air-purifying respirator with an HE filter. (Repeated exposures 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 exist, 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 170.607 (d) and (e)], 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 highwater mark. Do not contaminate water when disposing of equipment washwater or rinsate.

This product may be harmful to bees and other pollinating insects exposed to direct treatment. Do not apply this product while bees or other pollinating insects are actively visiting the treatment area.



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.

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 intervals (REI). 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) includes:

- Coveralls
- Waterproof gloves
- · Shoes plus socks

PRODUCT INFORMATION:

THEIA® Fungicide is a broad spectrum fungicidal and bactericidal biological product for the control or suppression of many important foliar and soil borne plant diseases. The active ingredient is *Bacillus subtilis* strain AFS032321.

APPLICATIONS FOR OPTIMUM DISEASE CONTROL:

- Always apply THEIA[®] Fungicide as a protectant treatment as part of a disease management program.
- Apply THEIA® Fungicide as a soil application or foliar spray alone, in alternating spray programs or in tank mixes with other registered crop protection products.
- Apply THEIA® Fungicide with spray equipment commonly used for making ground and chemigation applications.
- Adjust the application rate and/or spray intervals of THEIA® Fungicide according to the application instructions depending upon disease pressure. Heavy rainfall or irrigation shortly after application may require retreatment.
- To enhance performance, consider adding a surfactant that is known to be safe to the target crop to the spray tank to improve penetration and coverage of above-ground portions of the plant.

FUNGICIDE RESISTANCE MANAGEMENT AND IPM:

The active ingredient in THEIA® Fungicide has been submitted to FRAC and has been classified as BM02 (biological with multiple modes of action).

Integrate THEIA® Fungicide into an overall disease and pest management strategy. Follow practices known to reduce disease development. Consult local agricultural authorities for specific IPM and resistance strategies developed for your location and crop(s). THEIA® Fungicide can contribute to resistance management strategies which may include rotating and/or tank mixing with other products effective against target diseases with different modes of action.

APPLICATION INSTRUCTIONS:

THEIA® Fungicide can be applied pre or post-harvest via foliar spray, chemigation, soil drench, drip, banded spray, broadcast, in-furrow treatment, transplant water, bare root dip or tray drench. THEIA® Fungicide can also be applied in hydroponic operations and through various types of chemigation application as described in the Chemigation section of this label. Use sites include field, greenhouse, shadehouse, nursery, turf, forest.

Mix and apply THEIA® Fungicide in a sufficient volume of water to ensure uniform dispersion of product in the tank. Always add a portion of the water to the tank before adding THEIA® Fungicide. Constant agitation during mixing and application is necessary to maintain uniform suspension.

For foliar applications, good coverage of the foliage is needed to ensure performance.

Refer to the Crop-Specific Use Directions table portions of this label for proper application instructions for each crop/disease combination. Under light disease pressure, use lower rates and longer intervals. When conditions are conducive to severe disease pressure, use higher rates and shorter intervals.

Repeat applications at the intervals specified in the label and use an appropriate resistance management program.

Not all tank mixtures with THEIA® Fungicide have been tested. Before using any tank mix, test the combination on a small portion of the crop to ensure that the tank mixture is not phytotoxic to the crop. It is the responsibility of the user to ensure all components of the tank mixture are registered for use on the crop. When applying a tank mixture, the user must follow the instructions of the product with the most restrictive label.



FOLIAR APPLICATION DIRECTIONS:

Ground:

This product can be applied by commonly used ground equipment such as hose-end and pressurized sprayers. Consult spray nozzle and accessory documentation for specific information on proper equipment calibration. Maintain agitation during mixing and application to assure uniform product suspension. Thorough coverage of all foliage and/or soil surfaces is essential for effective disease control or suppression. Use the application rate indicated for the crop in the Crop-Specific Use Directions table of this label in sufficient water to achieve thorough coverage. Overall, to achieve good coverage, use proper spray pressure, gallonage per acre, nozzles, nozzle spacing and ground speed.

Chemigation:

This product can be applied through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, solid set, big gun or hand move irrigation systems. Refer to the Chemigation section of this label for additional directions and precautions. Maintain agitation during mixing and application to ensure uniform product suspension. Use the appropriate application rate as indicated for the crop in the Crop-Specific Use Directions table of this label. Use sufficient water to achieve thorough coverage.

General Foliar Application Use Restrictions:

- Do not apply when wind speed favors drift beyond the area intended for treatment.
- Remove scale, pesticide residues and other foreign matter from the chemical supply tank and entire injector system. Flush with clean water.
 Failure to provide a clean tank that is void of scale or residues may cause THEIA® Fungicide to lose effectiveness or strength.
- Do not combine THEIA® Fungicide with pesticides, surfactants or fertilizers for application through chemigation equipment unless prior
 experience has shown the combination to be physically compatible, effective and non-injurious under conditions of use. THEIA® Fungicide has
 not been fully evaluated for compatibility with all agricultural products.
- Conduct a spray compatibility test if tank mixing with other pesticides, surfactants or fertilizers is planned.

SPRAY DRIFT MANAGEMENT:

Do not allow spray to drift from the application site and contact people, structures people occupy at any time and the associated property, parks and recreation areas, nontarget crops, aquatic and wetland areas, woodlands, pastures, rangelands, or animals.

For ground boom applications, apply with nozzle height no more than 4 feet above the ground or crop canopy and when wind speed is 10 mph or less at the application site as measured by an anemometer. Use fine or coarser spray according to ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles.

For orchard/vineyard airblast applications, do not direct spray above trees/vines and turn off outward pointing nozzles at row ends and outer rows. Apply only when wind speed is 3 - 10 mph at the application site as measured by an anemometer outside of the orchard/vineyard on the upwind side.

For overhead chemigation, apply only when wind speed is 10 mph or less.

The applicator also must use all other measures necessary to control drift.

POST-HARVEST APPLICATION DIRECTIONS:

THEIA® Fungicide can be applied as a post-harvest dip or spray. For in-line and drench applications, mix 0.5 – 5 lb. of THEIA® Fungicide in 100 gallons of water or 100 gallons of wax containing solution. After THEIA® Fungicide is thoroughly mixed, dip fruit in the solution for 30 seconds. Allow the fruit to properly drain and dry before proceeding with packing.

Post-Harvest Application Use Restrictions:

• Do not use on cut or processed fruits and vegetables. For use on whole fruits and vegetables only.

CHEMIGATION APPLICATION DIRECTIONS:

General Information

- 1. Apply this product only through sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move; furrow; border irrigation system(s). Do not apply this product through any other type of irrigation system.
- 2. Crop injury or lack of effectiveness, can result from non-uniform distribution of treated water.
- 3. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
- 4. 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.
- 5. 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.

Maintain agitation during mixing and application to ensure uniform product suspension. Use the application rate indicated in the Crop-Specific Use Directions table in this label. Use sufficient water to achieve thorough coverage.

Public Water System Chemigation

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.

- 1. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the flow outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- 2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection
- 3. 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.
- 4. 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.
- 5. 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.
- 6. Do not apply when wind speed favors drift beyond the area intended for treatment.

Directions 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.

Center Pivot, Lateral Move, End Tow, Big Gun and Traveler Irrigation Equipment (Use only with electric or oil hydraulic drive systems that provide a uniform water distribution)

- Determine the size of area to be treated.
- Determine the time required to apply no more than ¼ inch of water (6,750 gallons water per acre) over the area to be treated when the system
 and injection equipment are operated at normal pressures specified by the equipment manufacturer. Run system at 80 to 95% of
 manufacturer's rated capacity.
- Using only water, determine the injection pump output when operated at normal line pressure.
- Determine the amount of THEIA[®] Fungicide required to treat area.
- Add required amount of THEIA® Fungicide and sufficient water to meet the injection time requirements of the solution tank.
- Maintain constant solution tank agitation during the injection period.
- Stop injection equipment after treatment is completed. Continue to operate the system until THEIA® Fungicide solution has cleared the sprinkler head.

Solid Set, Side (Wheel) Roll and Hand Move Irrigation Equipment

- Determine acreage covered by sprinkler.
- Fill injector solution tank with water and adjust flow rate to use contents over a 10 to 30 minute interval.
- Determine the amount of THEIA® Fungicide required to treat area.
- Add the required amount of THEIA® Fungicide into the same quantity of water used to calibrate the injection equipment.
- Maintain constant solution tank agitation during the injection period.
- Operate system at normal pressures specified by the manufacturer of the injection equipment and used for the time interval established during calibration
- Inject THEIA® Fungicide at the end of the irrigation cycle or as a separate application to maximize foliar fungicide retention.
- Stop injection equipment after treatment is completed. Continue to operate the system until THEIA® Fungicide solution has cleared the last sprinkler head.



Directions 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.
- 7. Dilute the product in water following the label mixing directions. It may be premixed with water, fertilizer or other appropriate tank-mixed agricultural chemicals. Agitation is necessary. Use volumes that thoroughly wet the soil but that do not cause significant runoff or excessive drip from pots. Application should be continuous in sufficient water to apply the specified rate evenly to the entire treated area.

Flushing and Cleaning the Chemical Injection System

At the end of the application period, allow time for all lines to flush the pesticide through all nozzles or emitters before turning off irrigation water. To ensure the lines are flushed and free of pesticides, a dye indicator may be injected into the lines to mark the end of the application period. In order to apply pesticides accurately, the chemical injection system must be kept clean and free of chemical or fertilizer residues and sediments. Refer to your owner's manual or ask your equipment supplier for the cleaning procedure for your injection system.

SEED TREATMENT USE

CROP	RATES	DISEASES CONTROLLED
Brassica Vegetables Bulb Vegetables Cereal Grains Cotton Cucurbit Vegetables Fruiting Vegetables Herbs and Spices Leafy Vegetables Legume Vegetables Oilseeds Peanuts Root and Tuber Vegetables (including potato seed piece treatment) Soybean Turf Ornamental Plants	0.25 – 5 lbs./100 lbs. of seed	Seed and soilborne fungal diseases related to wilt, root rot and damping off caused by Fusarium spp., Pythium spp., Rhizoctonia spp. and Phytophthora spp

USE RESTRICTION:

Do not use for food, feed, or oil purposes.

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

SOIL APPLICATION DIRECTIONS:

THEIA® Fungicide can be applied to soil either alone or mixed with various registered pest control products and fertilizers. Prior to making field applications of tank mixtures, determine the physical compatibility by mixing a test quantity as described in the Compatibility Testing and Tank Mix Partners section of this label. It is important to maintain agitation of the product mix throughout the application process.

SOIL DRENCH APPLICATIONS

Complete coverage of the root zone and crown are critical for optimum performance. Make a drench application with adequate water volume to drench through the root zone. Make the application prior to infection to allow colonization of THEIA® Fungicide in the root tissues and root zone.

SHANKED-IN AND INJECTED APPLICATIONS

THEIA® Fungicide can be applied before planting, at planting or after planting of seed or transplants when using shanked-in and injected application equipment.

TRANSPLANT WATER APPLICATIONS

THEIA® Fungicide can be applied at transplanting by drenching the root ball and/or drenching the planting hole with a solution containing THEIA® Fungicide.

TRAY DRENCH APPLICATIONS

Transplants can be tray drenched with a solution containing THEIA® Fungicide prior to transplanting in the field. Tray drench applications can be made in the greenhouse prior to transplanting to allow root colonization of THEIA® Fungicide.



BANDED APPLICATIONS

Banded applications can be made after plant emergence. The width of the sprayed band and the width of the unsprayed portion of the row must be considered when calculating the appropriate rate of THEIA® Fungicide to apply.

Use the following formula to determine the appropriate rate of THEIA® Fungicide to use in a banded application:



If a 7.5 inch band will be applied to 15 inch rows and the normal foliar application rate is 20 oz/A, use the following example calculation:

7.5 inch band
15 inch row
20 oz/A standard foliar rate
10 oz/A applied in the band

IN-FURROW APPLICATIONS

THEIA® Fungicide can be applied at planting as an in-furrow treatment. Follow the instructions listed in Table 1. Soil Application Rate. Use the appropriate amount of water for the crop.

TABLE 1. In-Furrow Soil Application Rates in the Field

TABLE 1. In-Furr	ow Son Applic									
		RA	TES FOR IN-F	URROW AP	PLICATIONS	OF THEIA®	UNGICIDE			
				Row Sp	acing (inche	es)				
Product Rate/Acre (lbs.)	12	15	20	22	30	32	36	38	40	72
			Rate	per 1000 rov	v feet (oz. wt	. of product)				
0.5	0.2	0.2	0.3	0.3	0.5	0.5	0.6	0.6	0.6	1.1
1	0.4	0.5	0.6	0.7	0.9	1.0	1.1	1.2	1.2	2.2
1.5	0.6	0.7	0.9	1.0	1.4	1.5	1.7	1.7	1.8	3.3
2	0.7	0.9	1.2	1.3	1.8	2.0	2.2	2.3	2.4	4.4
2.5	0.9	1.1	1.5	1.7	2.3	2.5	2.8	2.9	3.1	5.5
3	1.1	1.4	1.8	2.0	2.8	2.9	3.3	3.5	3.7	6.6
3.5	1.3	1.6	2.1	2.4	3.2	3.4	3.9	4.1	4.3	7.7
4	1.5	1.8	2.5	2.7	3.7	3.9	4.4	4.7	4.9	8.8
4.5	1.7	2.1	2.8	3.0	4.1	4.4	5.0	5.2	5.5	9.9
5	1.8	2.3	3.1	3.4	4.6	4.9	5.5	5.8	6.1	11.0
5.5	2.0	2.5	3.4	3.7	5.1	5.4	6.1	6.4	6.7	12.1
6	2.2	2.8	3.7	4.0	5.5	5.9	6.6	7.0	7.3	13.2
6.5	2.4	3.0	4.0	4.4	6.0	6.4	7.2	7.6	8.0	14.3
7	2.6	3.2	4.3	4.7	6.4	6.9	7.7	8.2	8.6	15.4
7.5	2.8	3.4	4.6	5.0	6.9	7.4	8.3	8.7	9.2	16.5
8	2.9	3.7	4.9	5.4	7.3	6.8	8.8	9.3	9.8	17.6
8.5	3.1	3.9	5.2	5.7	7.8	8.3	9.4	9.9	10.4	18.7
9	3.3	4.1	5.5	6.0	8.3	8.8	9.9	10.5	11.0	19.8
9.5	3.5	4.4	5.8	6.4	8.7	9.3	10.5	11.1	11.6	20.9
10	3.7	4.6	6.1	6.7	9.2	9.8	11.0	11.6	12.2	22.0

COMPATABILITY TESTING AND TANK MIX PARTNERS

Compatibility and Order of Mixing

THEIA® Fungicide is physically and biologically compatible with many commonly used pesticides, fertilizers, adjuvants and surfactants, but has not been fully evaluated with all products. To ensure compatibility of tank-mix combinations evaluate them prior to use as follows: Using a suitable container, add proportional amounts of product to water. Add wettable powders first, 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 combination stays mixed or can be remixed, it is physically compatible. Test the combination on a small portion of the crop to be treated to ensure that a phytotoxic response does not occur as a result of application.

Do not combine THEIA® Fungicide with pesticides, surfactants or fertilizers where there has been no previous experience or use demonstrating they are physically compatible, effective and non-injurious under your specific use conditions.

THEIA® Fungicide may be tank-mixed with other registered pesticides to enhance plant disease control or suppression. This product cannot be mixed with any product with a prohibition against such mixing. When tank-mixing THEIA® Fungicide with other registered pesticides always read and follow all use directions, restrictions and precautions of both THEIA® Fungicide and the tank-mix partner(s). Use of the resulting tank mix must be in accordance with the more restrictive label limitations and precautions. Do not exceed label dosage rates.



PRODUCT MIXING INSTRUCTIONS:

- 1. Partially fill the spray tank with clean water and begin agitation.
- Add the specified amount of THEIA[®] Fungicide.
- 3. Add other appropriately labeled agricultural products if tank mixing.
- 4. Finish filling the tank to the volume necessary to obtain the proper spray concentration.

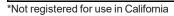
It is critical that the spray solution be agitated during mixing and application to assure a uniform suspension. Do not allow spray mixture to stand over 24 hours. Maintain a spray solution pH between 4.5 and 8.5.

RESTRICTIONS AND LIMITATIONS:

- · Do not apply by aerial application
- Crop Rotation Restriction none
- Preharvest Interval (PHI) 0 Day
- Re-entry Interval (REI) 4 hours
- Not for use in California on crops marked with an asterisk (*) in Crop-Specific Use Directions table

CROP-SPECIFIC USE DIRECTIONS

CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Berries and small fruit subgroups Bushberry subgroup Blueberry (highbush and low bush) Currant Elderberry Gooseberry Huckleberry Caneberry subgroup Blackberry Loganberry Raspberry Wild raspberry Wild raspberry User strawberry Bilberry Cloudberry Cranberry** Lingonberry Muntries Partridgeberry Small fruit vine climbing subgroup (except kiwifruit and grape) Amur river grape Gooseberry	Foliar Diseases Alternaria fruit rot[*] (Alternaria spp.) Anthracnose fruit rot[*] (Colletotrichum spp.) Bacterial canker[*] (Pseudomonas spp.) Botrytis Blight[*] (Botrytis spp.) Downy mildew[*] (Peronospora spp.) Mummy berry[*] (Monilinia spp.) Phomopsis[*] (Phomopsis spp.) Powdery mildew[*] (Sphaerotheca spp. Microsphaera spp. Podosphaera spp.) Rust[*] (Pucciniastrum vaccinii)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Alternaria fruit rot, Anthracnose, Botrytis blight and Powdery mildew: begin applications prior to infection and continue on a 2–10 day interval as needed. Bacterial canker: apply before fall rains and again during dormancy before spring growth. During growing season, apply prior to disease development and continue on a 2–10 day interval as needed. Mummy berry: begin applications at bud break and continue on a 7– 10 day interval as needed. **Cranberries: Only make applications to non-flooded fields. Do not apply to flooded fields.
Maypop Schisandra berry	Soil Diseases Armillaria Root Rot[*] (Armillaria mellea) Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.





CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Brassica (cole) leafy vegetables Head and Stem Broccoli Brussel sprouts Cabbage Cauliflower Cavalo broccoli Kohlrabi Leafy Greens Broccoli raab Chinese cabbage (bok choy) Collards Kale Mizuna Mustard greens Mustard spinach Rape greens	Foliar Diseases Alternaria leaf spot[*] (Alternaria spp.) Anthracnose[*] (Colletotrichum spp.) Bacterial leaf spot and Bacterial blight[*] (Pseudomonas spp.) Black rot[*] (Xanthomonas campestris) Cercospora leaf spot[*] (Cercospora spp.) Downy mildew[*] (Peronospora spp.) Pin rot (Alternaria spp.) Powdery mildew[*] (Erysiphe polygoni) Southern blight[*] (Sclerotium rolfsii) Xanthomonas campestris)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Begin applications prior to infection and continue on a 3–10 day interval as needed.
	Soil Diseases Charcoal rot[*] (Macrophomina spp.) Clubroot[*] (Plasmodiophora brassicae) Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

^{*}Not registered for use in California



CROP-SPECIFIC USE DIREC	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Bulb vegetables Chives Daylily Elegans hosta Fritillaria (bulb and leaves) Garlic Kurrat Leek Lily Onion (bulb and green) Shallot (bulb and leaves)	Foliar Diseases Bacterial leaf streak[*] (Pseudomonas spp.) Botrytis neck rot[*] (Botrytis spp.) Botrytis leaf blight[*] (Botrytis squamosa) Downy mildew[*] (Peronospora spp.) Pin rot[*] (Alternaria spp.) Powdery mildew[*] (Erysiphe spp.) Purple blotch[*] (Alternaria porri) Rust[*] (Puccinia porri) White rot[*] (Sclerotium cepivorum) Xanthomonas leaf blight[*] (Xanthomonas spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Begin applications prior to infection and continue on a 7–10 day interval as needed.
	Soil Diseases Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pink root[*] (Phoma spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

^{*}Not registered for use in California



CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Cereal grains Barley Buckwheat Corn Millet (pearl and proso) Dats Popcorn Rice** Rye Borghum Feosinte Friticale Wheat Wild rice**	Foliar Diseases Barley: Bacterial blight[*] (Xanthomonas spp.) Fusarium head blight[*] (Fusarium spp.) Net blotch[*] (Pyrenophora teres) Scald[*] (Rhychosporium secalis) Corn: Common rust[*] (Puccinia sorghi) Gray leaf spot[*] (Cercospora zeae-maydis) Northern corn leaf blight[*] (Exserohilum turcicum) Southern corn leaf blight[*] (Bipolaris maydis) Rice: Bacterial blight[*] (Xanthomonas spp.) Rice blast[*] (Pyricularia oryzae) Sheath blight[*] (Rhizoctonia solani) Sheath spot[*] (Rhizoctonia onyzae) Smut[*] (Tilletia barclayena) Stem rot[*] (Sclerotium oryzae) Wheat: Fusarium head blight[*] (Fusarium spp.) Leaf rust[*] (Puccinia spp.) Powdery mildew[*] (Blumeria graminis) Tan spot[*] (Pyrenophora tritici-repentis)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Begin applications prior to infection and continue on a 7–14 day interval as needed. **Rice and Wild Rice: Only make applications to non-floode fields. Do not apply to flooded fields.



Soil Dise	eases Field Applications	See application instruction for
Fusarium	n wilt[*] 0.5 – 5 lb./A	in-furrow, shanked-in, injected,
(Fusariun	n spp.)	tray drench, transplant water or
	Greenhouse Applic	ations soil drench applications.
Phytophth	nora root rot[*] 0.5 – 5 lb./100 gallon	s water
(Phytoph	thora spp.)	
Pythium o (<i>Pythium</i>	damping off[*]	
(r yamanı	SPP.)	
Rhizoctor	nia root rot[*]	
(Rhizocto		
Verticilliu (<i>Verticilliu</i>		

^{*}Not registered for use in California

CROP-SPECIFIC USE DIREC	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Citrus fruit group Calamondin Citrus citron Citrus hybrids Grapefruit Kumquat Lemon Lime Mandarin Orange (sour and sweet) Pummelo Satsuma Tangelo Tangerine Tangor	Foliar Diseases Alternaria leaf spot[*] (Alternaria alternata) Bacterial blast[*] (Pseudomonas syringae) Citrus canker[*] (Xanthomonas spp.) Greasy spot[*] (Mycosphaerella citri) Melanose[*] (Diaporthe citri) Post bloom fruit drop[*] (Colletotrichum acutatum) Scab[*] (Elsinoe fawcetti) Septoria spot[*] (Septoria citri)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Alternaria leaf spot: begin applications prior to infection and continue on a 7–10 day interval as needed. Citrus canker: begin applications prior to infection and continue on a 7-14 day interval as needed. Greasy spot: begin applications at the start of each new flush of foliage. Melanose: begin applications at petal fall and continue on a 14-21 day interval as needed. Post bloom fruit drop: begin applications at early bloom and continue on a 7–10 day interval as needed. Scab: begin applications at first flush of foliage and repeat at petal fall and when fruit are 1/2 inch in diameter. Septoria spot: begin applications after the first fall rain. Reapply if heavy rains occur in winter.
	Soil Diseases Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

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CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Coffee	Foliar Diseases Bacterial blight[*] (Pseudomonas syringae) Coffee berry disease[*] (Colletotrichum coffeanum) Rust[*] (Hemileia vastatrix)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Begin applications prior to infection and continue on a 4–10 day interval as needed.
No. 4 and a few and in California	Soil Diseases Fusarium wilt[] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

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CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Cotton	Foliar Diseases Bacterial blight[*] (Xanthomonas spp.) Target spot[*] (Corynespora cassiicola)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Begin applications prior to infection and continue on a 4–10 day interval as needed.
	Soil Diseases Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

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CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Cucumbers Squash (all types) Cantaloupe Muskmelon Pumpkin Watermelon	Foliar Diseases Angular leaf spot[*] (Pseudomonas syringae) Anthracnose[*] (Colletotrichum lagenarium) Bacterial fruit blotch[*] (Acidovorax avenae) Downy mildew (Pseudoperonospora cubensis) Gummy stem blight[*] (Didymella bryoniae) Powdery mildew (Erysiphe spp. Sphaerotheca spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Begin applications prior to infection and continue on a 7–10 day interval as needed.
	Soil Diseases Charcoal rot[*] (Macrophomina spp.) Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.) Vine decline[*] (Monosporascus cannonballus)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for infurrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

^{*}Not registered for use in California



CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Eggplant Groundcherry Pepino Pepper (all varieties) Tomatillo Tomato	Foliar Diseases Anthracnose[*] (Colletotrichum spp.) Bacterial canker[*] (Clavibacter michiganensis) Bacterial speck[*] (Pseudomonas spp.) Bacterial spot[*] (Xanthomonas spp.) Brown mold and Black pit (Alternaria alternata) Buckeye rot[*] (Phytophthora parasitica) Early blight (Alternaria solani) Botrytis gray mold[*] (Botrytis spp.) Late blight (Phytophthora infestans) Powdery mildew[*] (Leveillula taurica) Southern blight[*] (Sclerotium rolfsii) Target spot (Corynespora cassiicola)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Anthracnose, Gray mold, Buckeye rot and Powdery mildew: begin applications shortly after emergence or transplanting and continue on a 7–10 day interval as needed. Bacterial canker, Bacterial speck, Bacterial spot and Target spot: begin applications shortly after emergence or transplanting and continue on 2–7 day interval as needed. Brown spot, Early blight and Late blight: begin applications when plants are 4–6 inches tall and continue on a 5–10 day interval as needed.
	Soil Diseases Charcoal rot[*] (Macrophomina spp.) Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Southern blight[*] (Sclerotium rolfsii) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

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CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Grapes	Foliar Diseases Black rot[*] (Guignardia bidwellii) Downy mildew[*] (Plasmopora viticola) Eutypa[*] (Eutypa lata) Botrytis gray mold (Botrytis spp.) Phomopsis[*] (Phomopsis viticola) Powdery mildew (Uncinula necator) Sour rot complex[*] (Disease complex)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Black rot: begin applications prior to infection and continue on a 5–10 day interval as needed. Downy mildew: begin applications before pre-bloom and continue on a 7–10 day interval as needed.
	Soil Diseases Armillaria root rot/Oak root fungus[*] (Armillaria mellea) Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

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CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Hemp	Foliar Diseases Anthracnose[*] (Colletotrichum spp.) Botrytis gray mold[*] (Botrytis spp.) Brown blight[*] (Alternaria alternata) Downy mildew[*] (Pseudoperonospora cannabina) Hemp canker[*] (Sclerotinia sclerotiorum) Powdery mildew[*] (Erysiphe spp.) Yellow leaf spot[*] (Septoria cannabis)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Begin applications prior to infection and continue on a 7–14 day interval as needed.
	Soil Diseases Charcoal rot[*] (Macrophomina phaseolina) Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

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CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Herbs and Spices	Foliar Diseases Alternaria leaf blight[*] (Alternaria spp.) Anthracnose[*] (Colletotrichum spp.) Bacterial blight[*] (Pseudomonas syringae) Gray mold[*] (Botrytis spp.) Sclerotinia wilt[*] (Sclerotinia spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Begin applications prior to infection and continue on a 7–10 day interval as needed.
(Not registered for use in Colifornia	Soil Diseases Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

^{*}Not registered for use in California

CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Hops	Foliar Diseases Downy mildew[*] (Peronospora spp.) Powdery mildew[*] (Sphaerotheca macularis)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Begin applications prior to infection and continue on a 5–10 day interval as needed.
	Soil Diseases Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

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CROP-SPECIFIC USE DIREC	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Leafy vegetables (except Brassica) Arugula Celery Endive Fennel Lettuce (head and leaf) Parsley Radicchio Rhubarb Spinach Swiss chard	Foliar Diseases Anthracnose[*] (Colletotrichum spp.) Bacterial blight/bacterial leaf spot[*] (Xanthomonas spp.) Botrytis gray mold[*] (Botrytis spp.) Downy mildew[*] (Bremia lactucae, Peronospora spp.) Powdery mildew[*] (Erysiphe cichoracerarum) Sclerotinia head and leaf drop/Pink rot[*] (Sclerotinia spp.) Spinach bacterial leaf spot[*] (Pseudomonas syringae) White rust[*] (Albugo spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Bacterial blight/bacterial leaf spot: begin application prior to infection and continue on a 2–10 day interval as needed. Botrytis gray mold, Downy mildew, White rust and Powdery mildew: begin applications prior to infection and continue on a 5–10 day interval as needed. Sclerotina head and leaf drop and Pink rot: apply before emergence as a banded spray 4–6 inches wide. Apply again at thinning or cultivation and continue on a 10–14 day interval as needed.
	Soil Diseases Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Sclerotinia wilt[*] (Sclerotinia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

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CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Legume vegetables (succulent and dried beans and peas, except soybean) Asparagus Chickpea Lentil Broad bean Adzuki bean Moth bean Mung bean Rice bean Urd bean Field bean Kidney bean Lima bean Navy bean Pinto bean Tepary bean English pea Field pea Garden pea Green pea Cowpea	Foliar Diseases Asian soybean rust[*] (Phakospora pachyrhizi) Bacterial pustule[*] (Xanthomonas spp.) Botrytis gray mold[*] (Botrytis spp.) Cercospora leaf spot (Cercospora spp.)[*] Downy mildew[*] (Peronospora spp.) Powdery mildew[*] (Erysiphe spp.) Rust[*] (Uromyces appendiculatus, Puccinia spp.) White mold/Sclerotinia stem rot[*] (Sclerotinia sclerotiorum)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Asian soybean rust, Cercospora leaf spot, Downy mildew, Powdery mildew and Rust: begin applications prior to infection and continue on a 5–10 day interval as needed. Bacterial pustule: begin application prior to infection and continue on a 2–10 day interval as needed. Botrytis gray mold and White mold: apply shortly after or transplanting. Repeat on a 7–10 day interval as needed.
Crowder pea Southern pea Pidgeon pea Black-eyed pea Lupin Catjang Guar	Soil Diseases Aphanomyces root rot (Aphanomyces spp.) Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Sclerotinia wilt[*] (Sclerotinia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

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CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Mint	Foliar Diseases Downy mildew[*] (Peronospora spp.) Powdery mildew[*] (Erysiphe spp.) Rust[*] (Uromyces appendiculatus, Puccinia spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Begin applications prior to infection and continue on a 5–10 day interval as needed.
	Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

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CROP-SPECIFIC USE DIREC	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Oilseed crops (except cotton and peanut) Canola Castor Flax Rapeseed Safflower Sesame Sunflower	Foliar Diseases Alternaria leaf spot[*] (Alternaria spp.) Bacterial black rot[*] (Xanthomonas spp.) Bacterial leaf spot[*] (Pseudomonas spp.) Blackleg[*] (Leptosphaeria maculans) Blackspot[*] (Alternaria spp.) Cercospora leaf spot[*] (Cercospora helianthi) Pasmo[*] (Septoria linicola) Powdery mildew[*] (Erysiphe cichoracearum) Rust[*] (Puccinia spp., Uromyces spp.) Septoria leaf spot[*] (Septoria spp.) White mold/Sclerotinia crown and stem rot[*] (Sclerotinia sclerotiorum)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Alternaria leaf spot, Bacterial black rot, Bacterial leaf spot, Cercospora leaf spot, Pasmo, Powdery mildew, Rust and Septoria leaf spot: begin applications prior to infection continue on a 7–14 day interval as needed. Blackleg: begin applications at 2–4 leaf stage and continue on a 7–14 day interval as needed. Blackspot: begin applications at early pod development and continue on a 7–14 day interval as needed. White mold: begin applications at 20-50% bloom and continue on a 7–14 day interval as needed.
Not registered for use in California	Soil Diseases Clubroot[] (Plasmodiophora brassicae) Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

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CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Olives	Foliar Diseases Mycocentrospora[*] (Mycocentrospora cladosporioides) Olive knot[*] (Pseudomonas savastanoi) Peacock spot[*] (Spilcaea oleaginiea)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Begin applications prior to infection and continue on a 5–10 day interval as needed.
	Soil Diseases Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

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CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Peanut	Foliar Diseases Early leaf spot[*] (Cercospora arachidicola) Late leaf spot[*] (Cercosporidium personatum) Rust[*] (Puccinia spp.) Web blotch[*] (Phoma arachidicola) White mold[*] (Sclerotium rolfsii)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Begin applications prior to infection and continue on a 7–14 day interval as needed.
	Soil Diseases Aspergillus crown rot[*] (Aspergillus spp.) Cylindrocladium black rot[*] (Cylindrocladium crotalariae) Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia limb rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.) White mold[*] (Sclerotium rolfsii)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

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CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Apple Crabapple Loquat Mayhaw Pear Quince	Foliar Diseases Alternaria blotch[*] (Alternaria mali) Bitter rot[*] (Colletotrichum spp.) Blue mold[*] (Penicillium spp.) Bot rot[*] (Botryosphaeria dothidea) Botrytis gray mold[*] (Botrytis spp.) Brooks spot[*] (Mycosphaerella pomi) Bull's eye rot[*] (Neofabraea spp.) Cedar apple rust[*] (Gymnosporangium junipervirginianae) Fire blight[*] (Erwinia amylovora) Flyspeck[*] (Schizothyrium pomi) Powdery mildew[*] (Podosphaera leucotricha) Scab[*] (Venturia spp.) Sooty blotch[*] (Gloeodes pomigena) Soil Diseases Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*]	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Alternaria blotch: begin applications prior to infection and continue on a 7–10 day interval as needed. Bitter rot, Bot rot, Brooks spot, Bull's eye rot, Cedar apple rust, Flyspeck and Sooty blotch: begin applications prior to bloom and repeat on a 7–14 day interval as needed. Blue mold and Botrytis gray mold: make 1-2 applications in the two weeks prior to harvest. Applications can be made until the day of harvest. Fire blight: begin applications at 1–5% bloom and continue on a 2-7 day interval during the rapid bloom period. Continue applications on a 7 day interval after petal fall when conditions are favorable for fire blight. Scab: begin applications at green tip and continue on a 7-10 day interval as needed. Powdery mildew: begin applications at tight cluster or earlier if needed. Continue applications on a 7-10 day interval as needed. See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.
	(Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.)		
	Verticillium wilt[*] (<i>Verticillium</i> spp.)		

^{*}Not registered for use in California



CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Pomegranate	Foliar Diseases Alternaria fruit rot/Black heart[*] (Alternaria alternata) Botrytis gray mold[*] (Botrytis spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Alternaria fruit rot/Black heart and Botrytis gray mold: begin applications prior to infection and continue on a 7–10 day interval as needed.
	Soil Diseases Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

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CROP-SPECIFIC USE DIRE	CTIONS (continued)	DDODUCT LICE DATE	
CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Root and Tuber vegetables Artichoke Carrot Potato Radish Sugar beet Sweet potato Cassava Ginger True yam Dasheen (taro)	Foliar Diseases Aerial stem rot[*] (Erwinia carotovora) Alternaria leaf spot[*] (Alternaria spp.) Bacterial crown rot[*] (Erwinia chrysanthemi) Bacterial leaf spot/Leaf blight[*] (Xanthomonas campestris pv. carotae) Black dot[*] (Colletotrichum coccodes) Black rot/Black crown rot[*] (Alternaria spp.) Botrytis gray mold (Botrytis spp.) Brown spot and black pit (Alternaria alternata) Cercospora leaf spot[*] (Cercospora spp.) Downy mildew[*] (Peronospora spp.) Early blight (Alternaria solani) Late blight (Phytophthora infestans) Powdery Mildew[*] (Erysiphe spp. and Leveillula taurica) Rhizoctonia stem canker and crown rot[*] (Rhizoctonia solani) White mold[*]	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Aerial stem rot: begin applications prior to infection and continue on a 5–10 day interval as needed. Alternaria leaf spot, Black dot, Brown spot and black pit, Cercospora leaf spot, Downy mildew, Early blight and Powdery mildew: begin applications prior to infection and continue on a 7-14 day interval as needed. Bacterial crown rot, Black rot/Crown rot, Bacterial leaf spot and Botrytis gray mold: begin applications shortly after emergence or transplanting and continue on a 7-10 day interval as needed. Late blight: begin applications shortly after emergence or transplanting and continue on a 5-7 day interval as needed. Rhizoctonia stem canker and crown rot: begin applications at the 2 leaf stage and continue on a 3-10 day interval until the 8 leaf stage. White mold: begin applications shortly after emergence or transplanting and continue on a 7-10 day interval as needed.
	(Sclerotinia sclerotiorum) Soil Diseases Black rot of sweet potato[*] (Ceratocystis fimbriata) Black scurf[*] (Rhizoctonia solani) Cavity spot[*] (Pythium spp.) Common scab[*] (Streptomyces scabies) Cottony soft rot[*] (Sclerotinia sclerotiorum) Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.



CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
	Soil Diseases (continued) Powdery scab[*] (Spongospora subterranean)		
	Pythium damping off[*] (<i>Pythium</i> spp.)		
	Silver scurf[*] (<i>Helminthosporium</i> spp.)		
	Sclerotium stem rot[*] (Sclerotium rolfsii)		
	Verticillium wilt[*] (<i>Verticillium</i> spp.)		

^{*}Not registered for use in California



CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Soybean Including Edamame	Foliar Diseases Asian soybean rust[*] (Phakospora pachyrhizi) Bacterial pustule[*] (Xanthomonas spp.) Botrytis gray mold[*] (Botrytis spp.) Brown spot[*] (Septoria glycines) Downy mildew[*] (Peronospora spp.) Frogeye leaf spot[*] (Cercospora sojina) Powdery mildew[*] (Erysiphe spp., Microsphaera spp.) Rust[*] (Uromyces appendiculatus, Puccinia spp.) White mold[*] (Sclerotinia sclerotiorum)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	White mold: begin applications at R1 growth stage (beginning of flowering) and continue on a 7–14 day interval until flowering is complete. All other diseases: begin applications prior to infection and continue on a 7-14 day interval as needed.
	Soil Diseases Aphanomyces root rot[*] (Aphanomyces spp.) Charcoal rot[*] (Macrophomina spp.) Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

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CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Stevia	Foliar Diseases Alternaria leaf spot[*] (Alternaria spp.) Botrytis gray mold[*] (Botrytis spp.) Sclerotinia stem rot[*] (Sclerotinia sclerotiorum)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Begin foliar applications prior to infection and continue on a 7-10 day interval as needed.
	Soil Diseases Sclerotium stem and root rot[*] (Sclerotium rolfsii)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

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CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Apricot Cherry (sweet and tart) Nectarine Peach Plum (all varieties) Plumcot Prune	Foliar Diseases Alternaria spot/Fruit rot[*] (Alternaria alternata) Anthracnose[*] (Colletotrichum spp.) Bacterial canker[*] (Pseudomonas spp.) Bacterial leaf spot/bacterial spot[*] (Xanthomonas spp.) Blossom blight[*] (Monilinia spp.) Botrytis gray mold[*] (Botrytis spp.) Brown rot of fruit[*] (Monilinia spp.) Cherry leaf spot[*] (Blumeriella jaapii) Powdery mildew[*] (Sphaerotheca spp., Podosphaera spp.) Rusty spot[*] (Podosphaera leucotricha) Scab[*] (Cladosporium carpophilum) Shot hole[*] (Wilsonomyces carpophilus)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Alternaria spot, Anthracnose, Botrytis gray mold, Brown rot of fruit, Cherry leaf spot, Scab and Shot hole: begin applications prior to infection and continue on a 7–10 day interval as needed. Bacterial canker: begin applications after harvest to trees prior to fall rain events. Re-apply during dormancy in early spring. Bacterial leaf spot: begin applications at bud break and continue on a 7-14 day interval as needed. Blossom blight: begin application at early bloom and continue through the end of petal fall on a 7 day interval as needed. Powdery mildew and Rusty spot: begin applications at popcorn stage and continue on a 7-14 day interval as needed.
Not registered for use in California	Soil Diseases Fusarium wilt[] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

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CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Strawberry	Foliar Diseases Angular leaf spot[*] (Xanthomonas fragariae) Anthracnose[*] (Colletotrichum acutatum) Botrytis gray mold (Botrytis spp.) Common leaf spot[*] (Mycosphaerella fragariae) Leaf scorch[*] (Diplocarpon earliana) Powdery mildew (Sphaerotheca macularis, Erysiphe spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Angular leaf spot, Anthracnose, Common leaf spot and Leaf scorch: begin applications prior to infection and continue on a 7–10 day interval as needed. Botrytis gray mold and Powdery mildew: begin applications at or before flowering and continue on a 7-10 day interval as needed.
	Soil Diseases Black root rot[*] (Disease complex) Charcoal rot[*] (Macrophomina spp.) Fusarium wilt[*] \(Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

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CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Sugarcane	Foliar Diseases Brown rust[*] (Puccinia melanocephala) Orange rust[*] (Puccinia kuehnii)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Begin applications prior to infection and continue on a 7–14 day interval as needed.
	Soil Diseases Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pineapple set rot[*] (Ceratocystis paradoxa) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

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CROP-SPECIFIC USE DIRECT	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Tobacco including: Flue Cured Tobacco Burley Tobacco	Foliar Diseases Angular leaf spot[*] (Pseudomonas spp.) Anthracnose[*] (Colletotrichum spp.) Barnspot/Frogeye leaf spot[*] (Cercospora nicotianae) Brown spot[*] (Alternaria alternata) Blue mold[*] (Peronospora tabacina) Botrytis gray mold (Botrytis spp.) Collar rot[*] (Sclerotinia sclerotiorum) Powdery mildew[*] (Erysiphe cichoracearum) Target spot[*] (Rhizoctonia solani)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Begin applications prior to infection and continue on a 7–14 day interval as needed.
	Soil Diseases Black root rot[*] (Thielaviopsis basicola) Black shank[*] (Phytophthora spp.) Charcoal rot[*] (Macrophomina phaseolina) Fusarium wilt[*] (Fusarium spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Southern blight[*] (Sclerotium rolfsii)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

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CROP-SPECIFIC USE DIREC	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Almond Filbert (Hazelnut) Pecan Pistachio Walnut	Foliar Diseases Almond scab[*] (Cladosporium spp.) Alternaria leaf spot[*] (Alternaria alternata) Anthracnose[*] (Colletotrichum spp.) Bacterial canker[*] (Pseudomonas syringae) Bacterial spot[*] (Xanthomonas spp.) Botryosphaeria blight[*] (Botryosphaeria dothidea) Botrytis gray mold[*] (Botrytis spp.) Blossom blight/Brown rot[*] (Monilinia spp.) Hull rot[*] (Sclerotinia sclerotiorum) Pecan scab[*] (Cladosporium caryigenum) Shot hole[*] (Wilsonomyces carpophilus) Walnut blight[*] (Xanthomonas campestris)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Begin applications prior to infection and continue on a 7–14 day interval as needed.
Not registered for use in California	Soil Diseases Fusarium wilt[] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

^{*}Not registered for use in California



CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Watercress**	Foliar Diseases Cercospora leaf spot[*] (Cercospora spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Begin applications prior to infection and continue on a 7–14 day interval as needed. **Watercress: Only make applications to non-flooded fields. Do not apply to flooded fields.
	Soil Diseases Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

^{*}Not registered for use in California



TROPICAL FRUITS

CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Avocado and Mango	Foliar Diseases Anthracnose[*] (Colletotrichum spp.) Bacterial canker[*] (Xanthomonas campestris) Scab[*] (Sphaceloma spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Begin applications prior to infection and continue on a 14–21 day interval as needed.
	Soil Diseases Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

^{*}Not registered for use in California

CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Bananas and Plantains	Foliar Diseases Black sigatoka[*] (Mycosphaerella fijiensis)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Begin applications prior to infection and continue on a 7–14 day interval as needed.
	Soil Diseases Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

^{*}Not registered for use in California



CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Kiwifruit Kiwifruit, fuzzy Kiwifruit, hardy	Foliar Diseases Bacterial blight[*] (Pseudomonas spp.) Botrytis fruit rot[*] (Botrytis spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Bacterial blight: begin applications prior to infection and continue on a 5–14 day interval as needed. Botrytis fruit rot: make 1-2 applications on a 7-10 day interval before harvest to prevent postharvest Botrytis.
	Soil Diseases Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

^{*}Not registered for use in California

CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Papaya	Foliar Diseases Anthracnose[*] (Colletotrichum spp.) Bacterial canker[*] (Erwinia spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Begin applications prior to infection and continue on a 14–21 day interval as needed.
	Soil Diseases Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

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CROP	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Pineapple	Foliar Diseases Anthracnose[*] (Colletotrichum spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	Begin applications prior to infection and continue on a 14–21 day interval as needed.
	Soil Diseases Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.) Verticillium wilt[*] (Verticillium spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

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TURF AND ORNAMENTALS

ORNAMENTAL-SPECIFIC USE DIRECTIONS

Greenhouse, Lathhouse, Shadehouse, Nursery and Field			
PLANT MATERIAL	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
All types of Ornamental Trees, Shrubs, Flowers, Bedding Plants and other Ornamentals Annuals Perennials Bedding Plants Container Grown Plants Deciduous Trees and Shrubs Evergreen Trees and Shrubs Foliage Plants Ground Covers Potted Flowers Palms Tropical Foliage Woody Ornamentals	Foliar Diseases Alternaria Leaf Spot[*] (Alternaria spp.) Anthracnose[*] (Colletotrichum spp.) Aerial Shoot Blight[*] (Phytophthora spp.) Black Spot of Rose[*] (Diplocarpon rosea) Botrytis gray mold[*] (Botrytis spp.) Downy mildew[*] (Peronospora spp. Plasmopara spp., Bremiella spp., Bremia spp.) Powdery Mildew[*] (Erysiphe spp., Microsphaera spp., Sphaerotheca spp., Oidium spp., Podosphaera spp., Uncinula spp.) Soil Diseases Fusarium wilt[*] (Fusarium spp.) Phytophthora root rot[*] (Phytophthora spp.) Pythium damping off[*] (Pythium spp.) Rhizoctonia root rot[*] (Rhizoctonia spp.)	Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water Field Applications 0.5 – 5 lb./A Greenhouse Applications 0.5 – 5 lb./100 gallons water	See application instruction for in-furrow, shanked-in, injected, tray drench, transplant water or soil drench applications.

^{*}Not registered for use in California



TURF-SPECIFIC USE DIRECTIONS

Turf and Turf Production Applications:

Apply THEIA® Fungicide on all warm and cool season turfgrass species including Bentgrass, Bermudagrass, Bluegrass, Centipedegrass, Fescue, Ryegrass, Saint Augustinegrass, Zoysia grass, Seashore Paspalum and Poa annua. THEIA® Fungicide can be applied on greens, tees, fairways and roughs, athletic fields, parks, cemeteries, commercial turf, roadsides, commercial lawns, sod farms, seed production grasses and all ornamental grass species.

PLANT MATERIAL	TARGET DISEASES	PRODUCT USE RATE PER APPLICATION	APPLICATION DIRECTIONS
Turf Bentgrass Bermudagrass Bluegrass Centipedegrass Fescue Ryegrass St Augustinegrass Zoysiagrass	Anthracnose[*] (Colletotrichum spp.) Brown Patch[*] (Rhizoctonia spp.) Dollar Spot[*] (Sclerotinia homoeocarpa) Pythium Blight[*] (Pythium spp.) Pythium Root Rot[*] (Pythium spp.)	0.11-3.67 fl. oz./1000 sq. ft	Begin applications prior to infection and continue on a 7–21 day interval as needed.

^{*}Not registered for use in California

STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.

Pesticide Storage: Store in original containers only. Store in a cool, dry place and avoid excess heat.

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

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

For Plastic Drums/Totes: Nonrefillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into formulation equipment. Recycle if facilities for recycling are available, otherwise, dispose of in a sanitary landfill or by incineration. If drum/tote is contaminated and cannot be reused, dispose of it in the manner required for its liner.

For Bags/Pouches: Nonrefillable container. Do not reuse or refill this container. Completely empty bag or pouch into formulation equipment. Recycle if facilities for recycling are available, otherwise, dispose of in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.



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