



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

70506-356

Date of Issuance:

3/24/20

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

INTERROGATE Fungicide

Name and Address of Registrant (include ZIP Code):

Robyn Clark
Regional Regulatory Manager
UPL NA Inc.
630 Freedom Business Center Suite 402
King of Prussia, PA 19406

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. The data requirements for storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) are not satisfied. A one year study is required to satisfy these data requirements. You have 18 months from the date of registration to provide these data.

Signature of Approving Official:

Maryam K. Muhammad, Acting Product Manager 21
Fungicide Branch, Registration Division (7505P)

Date:

3/24/20

3. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, “EPA Reg. No. 70506-356.”
4. Submit one copy of the revised final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list 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 the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 02/13/2020
- Alternate CSF 1 dated 02/13/2020
- Alternate CSF 2 dated 02/13/2020

If you have any questions, please contact Maryam K. Muhammad by phone at 703-347-0301, or via email at Muhammad.maryam@epa.gov.

Enclosure

[Text in brackets is optional]

INTERROGATE™ Fungicide

[ABN: STartUP METXL 480 Seed Treatment]

Active Ingredient:

Metalaxyl: N-(2,6-dimethylphenyl)-N-(methoxyacetyl) alanine methyl ester..... 42.50%

Other Ingredients: 57.50%

Total: 100.00%

Contains 4.0 pounds Metalaxyl per gallon (480 grams per liter).

KEEP OUT OF REACH OF CHILDREN CAUTION

[Optional Referral Statements:

See inside for additional Precautionary Statements and complete Directions For Use.

See attached booklet for additional Precautionary Statements and complete Directions For Use.

PEEL DOWN FOR DIRECTIONS

See containers inside for additional Precautionary Statements and complete Directions For Use.

See attached booklet for additional Precautionary Statements. See inside booklet for additional Precautionary Statements.]

FIRST AID

IF SWALLOWED

- Call a poison control center or doctor immediately for treatment advice.
- Have the 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.

IF ON SKIN OR CLOTHING

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 to 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 to 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.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800)-424-9300

For Medical Emergencies Only, Call Rocky Mountain Poison and Drug Safety: 1-866-673-6671

For Product Use Information Call 1-866-761-9397

EPA REG. NO. 70506-XXX

EPA EST. NO.

Net Contents: Gal.

UPL NA Inc.

630 Freedom Business Center, Ste. 402

King of Prussia, PA 19406

xxxxxxV001

ACCEPTED

03/24/2020

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

EPA Reg. No. 70506-356

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION**

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

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemical-resistant to this product are listed below.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants,
- Shoes and socks,
- Chemical-resistant gloves (barrier laminate, butyl rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, polyvinyl chloride (PVC) ≥ 14 mils, or Viton ≥ 14 mils).

Follow manufacturer's instructions for cleaning/maintaining PPE. If not such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering controls statement:

When handlers use closed systems, enclosed cabs, or aircraft 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.

USER SAFETY RECOMMENDATIONS

Users Should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- 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

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 apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwater or rinsate.

Groundwater Advisory Statement: This chemical is known to leach through soil into ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

Physical and Chemical Hazards

Do not mix or come into contact with oxidizing agents. Hazardous chemical reaction may occur.

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 agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 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 statement of this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to users of this product that are covered by the WPS.

Do not enter or allow worker entry into treated areas during the REI of 48 hours.

Exception: If the product is soil-injected or soil-incorporated, the WPS, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is: coveralls, shoes plus socks and chemical-resistant gloves such as barrier laminate or nitrile rubber or neoprene rubber or Viton and protective eyewear.

NON-AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow other to enter the treated area until sprays have dried.

USE PRECAUTIONS

INTERROGATE Fungicide is a systemic fungicide that controls certain diseases caused by members of the Oomycete class of fungi. When using on the same crop within the same season as mefenoxam, the maximum annual usage applies to the combination of both active ingredients when used on the same crop cycle in the same season.

Resistance Management Recommendations

For resistance management, **INTERROGATE Fungicide** contains a Group 4 fungicide. Any fungal population may contain individuals naturally resistant to **INTERROGATE Fungicide** and other Group 4 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay fungicide resistance, take one or more of the following steps:

- Rotate the use of **INTERROGATE Fungicide** or other Group 4 fungicides within a growing season sequence with different groups that control the same pathogens.
- Use tank mixtures with fungicides from a different group that are equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
- Adopt an integrated disease management program for fungicide use that includes scouting, uses historical information related to pesticide use, and crop rotation, and which considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- Where possible, make use of predictive disease models to effectively time fungicide applications. Note that using predictive models alone is not sufficient to manage resistance.
- Monitor treated fungal populations for resistance development.
- Contact your local extension specialist or certified crop advisor for any additional pesticide resistance-management and/or 1PM recommendations for specific crops and pathogens.
- For further information or to report suspected resistance contact UPL NA Inc. at 1-866-761-9397. You can also contact your pesticide distributor or university extension specialist to report resistance.

ROTATION (PLANTBACK) RESTRICTIONS

ROTATION CROP	PLANTING TIME FROM LAST APPLICATION (Days)
Any crop specified on this label	0
Bushberry Subgroup 13-07B	0
Caneberry Subgroup 13-07A	0
Corn	0
Cereal Grains (other than Corn)	14
Crops Not Intended for Food or Feed	0
All Other Crops Intended for Food or Feed	12 months

Replanting

If replanting is necessary, additional applications of this product may be made, provided that the total amount of metalaxyl applied does not exceed the maximum allowed for the specific crop.

MIXING PROCEDURES:

Always provide sufficient agitation during mixing and application to maintain a uniform emulsion

- add 1/4 to 1/2 of the required amount of water to the spray tank;
- add the proper amount of **INTERROGATE Fungicide**, then add the rest of the water;

When tank mixing with other products, follow this sequence of adding products to the tank:

- add 1/4 to 1/2 of the required amount of water to the spray tank;
- add wettable powders;
- add water dispersible granules;
- add flowable products;
- add emusifiable concentrates, such as **INTERROGATE Fungicide**

When this product is applied with any other product, observe the most restrictive precautions and restrictions that appear on either of the products' label.

Compatibility

INTERROGATE Fungicide is generally compatible with most commonly used wettable powders, soluble concentrates (flowables) and emusifiable concentrates. To assure compatibility of this product with other products, pour the products into a small container of water in the correct proportions. After thorough mixing, let stand for 5 minutes. If the combination remains mixed, or can be re-mixed readily, the mixture is compatible.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

APPLICATION PROCEDURES

Apply this product by ground or air in sufficient water or liquid fertilizer to provide uniform coverage of the soil surface. Do not apply when wind speed favors drift beyond the area intended for treatment.

GROUND APPLICATIONS (Broadcast):

Apply in a minimum of 20 gallons per acre for ground applications, unless otherwise specified.

AERIAL APPLICATIONS:

Apply in a minimum of 5 gallons per acre for aerial applications, unless otherwise specified.

BANDED APPLICATIONS:

For banded applications, the area covered is not the total cropland area planted, but is the area covered by the band. Some row-crop use instructions are based on treating in-the-row and these rates generally are specified as amounts (fluid ounces) of product per certain row length (often 1,000 feet). Others express rates as amount per treated acre, which means the total area treated with the pesticide. If rates are expressed as amount per treated acre and banded applications are used, the amount of pesticide used per acre will be proportionately less. The following formula can be used to calculate the amount of this product needed per acre of crop when banded applications are made.

Calculate the amount of this product needed for band treatment by the following formula:

$$\frac{\text{band width in inches}}{\text{row spacing in inches}} \times \text{broadcast rate per acre} = \text{amount needed per acre of field}$$

IN-FURROW APPLICATIONS:

For in-furrow applications to cotton, soybean and other crops where the use is approved, Apply as an in-furrow spray in 3 to 7 gallons of water per acre at planting. Mount the spray nozzle so the spray is directed into the furrow just before the seeds are covered. The following table provides common row spacings and the amount of **INTERROGATE Fungicide** to apply per acre.

Use Rate fl oz/1,000 row feet (ai/1000 row feet)	INTERROGATE Fungicide fl oz/A								
	20-inch rows	22-inch rows	24-inch rows	30-inch rows	32-inch rows	34-inch rows	36-inch rows	38-inch rows	40-inch rows
0.16 (0.08)	4.0	3.6	3.2	2.8	2.4	2.2	2.2	2.0	1.9
0.30 (0.15)	8.0	7.2	6.4	5.6	4.8	4.6	4.4	4.0	3.8
0.56 (0.28)	14.0	13.4	12.2	9.6	9.2	8.6	8.0	7.6	7.2
0.84 (0.42)	22.0	20.0	19.2	14.6	13.6	13.0	12.2	11.6	10.8

20" = 26,136 row ft/A; 22" = 23,760 row ft/A; 24" = 21,780 row ft/A;
 30" = 17,424 row ft/A; 32" = 16,315 row ft/A; 34" = 15,374 row ft/A; 36" = 14,520 row ft/A; 38" = 13,754 row ft/A;
 40" = 13,068 row ft/A

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR A VOIDING OFF-SITE SPRAY DRIFT.
 BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size- Ground Boom

- Volume- Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.

- Pressure- Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle- Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size- Aircraft

- Adjust Nozzles- Follow nozzle manufacturers recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

BOOM HEIGHT - Ground Boom

Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. For ground equipment, the boom should remain level with the crop and have minimal bounce.

RELEASE HEIGHT- Aircraft

Higher release heights increase the potential for spray drift. When applying aerially to crops, do not release spray at a height greater than 10 ft above the crop canopy, unless a greater application height is necessary for pilot safety.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS. Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

APPLICATION THROUGH IRRIGATION SYSTEM:

INTERROGATE Fungicide may be applied through irrigation systems alone or in combination with other pesticides registered for application through irrigation systems. This product may be applied only through • center pivot, • solid set, • hand move, • moving wheel, • micro-sprinkler, • pressurized drench (flood) or drip (trickle), • micro-irrigation such as a spaghetti-tube or individual tube irrigation, • hand-held calibrated irrigation equipment such as the hand-held wand with injector, • calibrated overhead watering booms, • ebb and flow or • bench flooding sub-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. Do not connect an irrigation system (including greenhouse systems) used for pesticide applications to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise. If you have any questions about calibration, you should contact the State Extension Service specialists, equipment manufacturers or other experts.

This product must be applied on the schedule specified in the specific crop use recommendations, not according to the irrigation schedule. With the exception of citrus, this product has not been sufficiently tested when applied through irrigation systems to assure consistent product performance for all labeled uses. The following calibration and application techniques are provided for user reference, but do not constitute a warranty of fitness for application through sprinkler or drip irrigation equipment. Users must check with state and local regulatory agencies for potential use restrictions before applying any agricultural chemical through sprinkler or drip irrigation equipment.

Do not inject this product at full strength or deterioration of valves and seals may occur. Use a dilution ratio of at least 10 parts water to 1 part this product in the mix tank. This product is corrosive to many seal materials. Leather seals are best. EPDM or silicone rubber seals can be used, but should be replaced once a year. **Do not** use Viton, Buna-N, Neoprene or PVC seals.

Chemigation Systems Connected To Public Water Systems: *Note: Manufacturer does not encourage connecting chemigation systems to public water supplies. The following information is provided for users who have diligently considered all other application and water supply options before electing to make such a connection.*

Public water system means a system for the provision of public piped water for human consumption, if such a system has at least 15 service connections, or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional reduced-pressure zone backflow 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 supply system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the 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. The pesticide injection pipeline must contain a functional automatic quick closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must contain a functional normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment.

Center Irrigation Equipment

Use only with drive systems, which provide uniform water distribution

Determine the size of the area to be treated. Determine the time required to apply 1/2 to 1 inch of water over the area to be treated when the system and injection equipment are operated at normal pressures recommended by the equipment manufacturer. Run the system at 80 to 95% of the manufacturer's rated capacity. Using water, determine the injection pump output when operated at normal line pressure. Determine the amount of this product required to treat the area covered by the irrigation system. Add the required amount of this product and sufficient water to the solution (mix) tank to meet the injection time requirements. Maintain constant solution tank agitation during the injection period. Continue to operate the system until all of the product solution has cleared the most distant sprinkler head.

Solid Set, Hand Move, and Moving Wheel Irrigation Equipment

Determine the acreage covered by the sprinklers. Fill injector solution tank with water and adjust flow rate to use the contents over a 20 to 30 minute interval. Determine the amount of this product required to treat the area covered by the irrigation system. Add the required amount of this product into the same quantity of water used to calibrate the injection period. Operate the system at the same pressure and time interval established during the calibration. Inject this product at the end of the irrigation cycle in 1/2 to 1 inch of water or as separate application to maximize the effectiveness of the fungicide. Stop injection equipment after treatment is completed. Continue to operate the system until all of the product solution has cleared the last sprinkler head.

Micro Sprinkler, Drip Irrigation Systems, Overhead Watering Booms

General Instructions

Each run of the irrigation system must be calibrated separately to determine the time it takes water to move through the system and to make sure all emitters in the system are putting out the same amount of water. Only pressure injection or venturi equipment is recommended. Determine the area to be treated in each irrigation run. Measure the output of each of the emitters or drip tubes closest to and farthest from the injector site. For calibration, substitute a concentrated detergent (such as Wisk) or a soluble fertilizer for this product in the injector tank. The detergent will bubble as it leaves the emitters. The time period over which bubbles occur should be checked for both the closest and farthest emitters. If these times are not within 2 minutes of each other, adjust the dilution ratio and/or the injection rate. If a soluble fertilizer is used, measure the time intervals with a salt bridge. If a drip system is being calibrated, substitute soluble fertilizer for this product in the injector and measure the time intervals with a salt bridge. (Step by step instructions)

Before starting to calibrate, operate the system until all the emitters are putting out equal flow rates or until the system is operating at full pressure. Make up an indicator solution of detergent or fertilizer, using the same ratio to be used when mixing this product. Set the injector to apply the indicator solution at the injection rate to be used in the actual product application. Attach a 5-inch length of flexible tubing over the emitter closest to the injection point, another length over the emitter farthest away. Both emitters should be monitored to determine the time intervals that the indicator solutions are observed. Begin injecting the indicator solution. Direct the flow from the tubes at the emitters into a small container. Begin timing when the indicator solution is first detected, stop timing when the indicator solutions are no longer detected. If the period of detection of the indicator solution between the 2 emitters is within 2 minutes of each other, comparable coverage will be obtained. If they are not, make adjustments by increasing the dilution ratio, using more water per part of this product, or adjust the injector to a slower flow rate. Once the system is calibrated, dilute the needed amount of this product with water using a minimum of 10 part of water to 1 part this product. Do not begin to inject this product into the system until all emitters are producing equal flow rates, or until the system is at full pressure. Inject this product into the system at the end of the irrigation set in 1/2 to 1 inch of irrigation water.

CROPS

CROP	DISEASES	RATE (pints per acre)	USE INSTRUCTIONS
ALFALFA (birdsfoot trefoil)	Damping-off (<i>Pythium</i> spp.) Root rot (<i>Phytophthora</i> spp.)	0.5 - 1.0 pts/A (0.25 – 0.50 lbs ai/A)	Stand Establishment: Apply as a broadcast surface spray at planting. If inter-seeding alfalfa into existing stands for renovation, apply 0.5 pint per acre as a broadcast spray at planting. If alfalfa seed was previously treated with a metalaxyl or mefenoxam seed treatment product, use this product at 0.5 pints per acre at planting. Use the highest specified rate per acre in areas where disease pressure is expected to be heavy.
	Use Restrictions: <ul style="list-style-type: none"> • Do not feed green forage or cut hay for 60 days following application • Do not apply more than 1.0 pt (0.50 lbs ai) per application. • Do not apply more than 1.0 pt (0.5 lbs ai) per acre per year. • Do not apply more than 1 application at the highest specified use rate or 2 applications at the lowest specified use rate per acre per year. 		
APPLES (bearing and non-bearing trees)	Crown rot Collar rot Root rot (<i>Phytophthora</i> spp.)	8.0 pts/A (4.0 lbs ai/A) or 3 fl oz/1000 sq ft	Soil Spray (Broadcast, Band or Irrigation): Apply to soil beneath the tree canopy or apply through irrigation water (micro-sprinkler or drip) before symptoms occur. Apply to the soil in early spring before growth starts and in the fall after harvest, but before the ground freezes. The treated area is based on the area under the tree canopy or the area of the sprayed row. Soil surface sprays of this product will not be effective until, the fungicide is moved into the root zone by rainfall or irrigation. Use sufficient water volume to obtain thorough coverage of the soil.
		Diluted Mixture: 1.0 pt in 100 gallons water	Drench: Apply diluted mixture around the trunk of each tree before symptoms occur in early spring before growth starts and in the fall after harvest, but before the ground freezes. On new plantings, delay the first

		(0.5 lbs ai)	application until 2 weeks after planting. Use this product in conjunction with good cultural practices and rootstocks that are most tolerant to disease.										
			<table border="1"> <tr> <th>Trunk Diameter 12 Inches Above Soil Line</th> <th>Pints of Diluted Mixture Per Tree</th> </tr> <tr> <td><1"</td> <td>2 pts</td> </tr> <tr> <td>1" to 3"</td> <td>4 pts</td> </tr> <tr> <td>3" to 5"</td> <td>6 pts</td> </tr> <tr> <td>>5"</td> <td>8 pts</td> </tr> </table>	Trunk Diameter 12 Inches Above Soil Line	Pints of Diluted Mixture Per Tree	<1"	2 pts	1" to 3"	4 pts	3" to 5"	6 pts	>5"	8 pts
		Trunk Diameter 12 Inches Above Soil Line	Pints of Diluted Mixture Per Tree										
<1"	2 pts												
1" to 3"	4 pts												
3" to 5"	6 pts												
>5"	8 pts												
Use Restrictions: <ul style="list-style-type: none"> Do not dip roots of trees in or spray bare roots with solutions containing this product. Applications of this product should be made before symptoms appear especially in areas of the orchard favorable for disease development. This product will not revitalize trees showing moderate to severe disease symptoms. Do not graze or feed cover crops in treated orchards. Do not apply more than 8.0 pts (4.0 lb s ai) per application. Do not apply more than 2 gallons (8.0 lbs ai) per acre per year. Do not apply more than 2 applications per acre per year. 													

CROPS (continued)

CROP	DISEASES	RATE (pints per acre)	USE INSTRUCTIONS
ASPARAGUS	Crown rot Spear rot (<i>Phytophthora</i> spp.)	2.0 pts/A (1.0 lbs ai/A)	<p>Soil Spray (Broadcast or Band): If applying as broadcast spray, apply in a minimum of 10 gallons of water over the beds.</p> <p>Cutting Beds: Apply 30 to 60 days before first cutting. For additional control, make another application just before the beginning of harvest.</p> <p>New Plantings: Apply after planting seedlings or after covering one-year old crowns.</p>
	Use Restrictions: <ul style="list-style-type: none"> Do not apply more than 2.0 pts (1.0 lb s ai) per application. Do not apply more than 4.0 pts (2.0 lbs ai) per acre per year. Do not apply more than 2 applications per acre per year. PHI (pre-harvest interval) = 1 day. 		
AVOCADOS	Root rot (<i>Phytophthora</i> spp.)	Apply as soon as soil tests indicate the presence of <i>Phytophthora</i> .	
		For new plantings, use <i>Phytophthora</i> -resistance rootstocks.	
		Mature trees in advanced stages of decline cannot be cured with this product.	
		2.0 – 8.0 pts/A (1.0 – 4.0 lbs ai/A)	<p>Soil Spray: Apply to the soil directly under the drip emitter, using irrigation to incorporate the material into the soil. If there is more than one emitter, distribute the amount of product among the emitters. Use the same rate and application regime described below under Sprinkler Irrigation.</p>
			<p>Sprinkler Irrigation: Apply as a soil surface spray under the tree canopy or via the irrigation system at the start of the growing season or at transplanting. Two additional applications may be made at 3-month intervals.</p>
			Apply 2.0 pts/A if the trees have a canopy

			diameter of 2 feet. Increase the rate as the canopy diameter increases. For canopy diameters 15 feet or more, use the 8.0 pt/A rate.
		Diluted Mixture: 0.5 fl oz in 18 gallons water	Sleeve Drench: At the time of transplanting, drench the roots inside the sleeve with 1 quart of diluted mixture per tree. The sleeve drench will not replace the soil surface applications for long-term control of root rot.
		4.0 – 8.0 pts/A (2.0 – 4.0 lbs ai/A) or 1.0 – 2.0 fl oz/1,000 gallons water	Injection (Drip Irrigation): Inject this product into the irrigation water at the start of the growing season or at transplanting. Two additional applications may be made at 3-month intervals.
	Use Restrictions: <ul style="list-style-type: none"> • Do not apply more than 8.0 pts (4.0 lb s ai) of per application. • Do not apply more than 24.0 pints (12.0 lbs ai) per acre per year. • Do not apply more than 3 applications at the highest specified use rate or 12 applications at the lowest specified use rate per acre per year. • PHI (pre-harvest interval) = 28 days 		

CROPS (continued)

CROP	DISEASES	RATE (pints per acre)	USE INSTRUCTIONS
BLUEBERRIES	Root rot (<i>Phytophthora</i> spp.)		Use this product in conjunction with good cultural practices to minimize disease problems. This product will not revitalize plants showing moderate to severe root rot symptoms.
		7.2 pts/A (3.6 lbs ai/A) or 0.50 pts/ 1,000 row ft	Soil Spray (broadcast, band or drip): New Plantings: Apply one application to the soil at time of planting. For banded applications, use an 18-inch band over the row A second application can be made to coincide with periods most favorable for root rot development.
			Established Plantings: In the spring before the plant starts to grow, make a soil-directed application towards the base of the plant in a in a 3- foot band over the row or through drip irrigation. A second application can be made to coincide with periods most favorable for root rot development.
	Use Restrictions: <ul style="list-style-type: none"> • On new plantings, do not apply more than 14.4 pints (7.2 lbs ai) per acre during the 12 months before bearing harvestable fruit. • Do not apply more than 7.2 pts (3.6 lb s ai) per application. • Do not apply more than 14.4 pts (7.2 lbs ai) per acre per year. • Do not apply more than 2 applications per acre per year. • PHI (pre-harvest interval) = 0 days. 		

CROPS (continued)

CROP	DISEASES	RATE (Pints per Acre)	USE INSTRUCTIONS
CITRUS Calamodin Chironja Citrus citron Grapefruits Kumquats Lemons Limes Mandarin Oranges Pummelo Tangelos Tangerines Tangor and hybrids of these	Brown Rot Citrus foot rot Root rot Trunk Cankers <i>(Phytophthora spp.)</i>	NURSERIES: (AZ, CA, FL, PR, and TX only): Make first application at the time of planting. Repeat applications at 3-month intervals during the period when trees are actively growing. For banded applications, use a band wide enough to cover the root systems of the plants.	
		Diluted Mixture: 2.0 – 3.0 fl oz in 100 gallons water (1.0 – 1.5 lbs ai)	Soil Drench: Apply as a drench over the row at a rate of 100 to 250 gallons per 1,000 feet of row. The width of the drench treatment should be wide enough to cover the root systems of the plants. Follow with 0.5 to 1- inch irrigation over the treated area.
		4 – 8 pts/A (2.0 – 4.0 lbs ai/A)	Soil Spray (broadcast or band): Apply in a broadcast or banded surface spray to seedbeds, liners, or bedded stock in sufficient water to obtain thorough coverage. If applications are banded, the treated area should be wide enough to cover the root systems of the plants. Follow with 0.5 to 1- inch irrigation over the treated area.
		Use Restrictions: <ul style="list-style-type: none"> Do not apply solutions of this product to bare roots. 	
		RESETS or NEW PLANTING (AZ, CA, FL, PR, or TX only): Make the first application to citrus resets or new planting at time of transplanting. Make up to 3 additional applications per year at 3- month intervals or when root growth flushes occur.	
		Diluted Mixture: 2.0 – 3.0 fl oz in 100 gallons water (1.0 – 1.5 lbs ai)	Water Ring Drench: Apply 5 gallons of the mix around the base of each tree within the watering ring.
		4.0 – 8.0 pints/A (2.0 – 4.0 lbs ai/A)	Soil Spray (AZ and CA only): Apply in sufficient water to obtain uniform coverage of the soil surface. Apply spray to the soil surface beneath the tree canopy or apply through irrigation water. If natural rainfall is not expected within 3 days of the soil surface application, irrigate with 0.5 to 1 inch water over the treated area.
		4.0 pints/A (2.0 lbs ai/A)	Soil Spray (FL, PR, and TX only): Apply under the canopy of the tree. Applications may be made through low volume irrigations systems at the rate of 1 pint per grove acre for trees less than 5 years old. Two or 3 applications per year may be made on a spring + summer, summer + fall or spring + summer + fall schedule.

CROPS (continued)

CROP	DISEASES	RATE (pints per acre)	USE INSTRUCTIONS															
CITRUS (continued) Calamodin Chironja Citrus citron Grapefruits Kumquats Lemons Limes Mandarin Oranges Pummelo Tangelos Tangerines Tangor and hybrids of these	Brown Rot Citrus foot rot Root rot Trunk Cankers (<i>Phytophthora</i> spp.)	ESTABLISHED PLANTING: Use this product in combination with good resistant varieties and cultural practices. When nematodes are a problem, best results can be achieved if an effective EPA-registered nematicide is used in combination or in sequence with this product.																
		2.0 – 8.0 pts/A (1.0 – 4.0 lbs ai/A)	Soil Application (FL, PR, and TX only): Apply 2.0 pints per treated acre to groves that have a Phytophthora propagule count of 10 to 20 per cubic centimeter of soil as a feeder root rot disease maintenance treatment. Applications may be made through low volume irrigation for trees 5 years or older at the rate of 1 pint per grove acre. Two or 3 applications per year may be made on a spring + summer, summer + fall or spring + summer + fall schedule. For groves with extremely high propagule counts (above 20 per cc of soil), apply 2 quarts per treated acre (make 2 to 3 applications at this dosage per year) to reduce the population.															
			Soil Spray (AZ and CA only): For best results begin applications during the Spring root-flush period. One or two additional applications per year can be made a 3- month intervals to coincide with flushes of root growth. Use the table below to determine the proper rate based on the size and the number of applications per year. For applications based on broadcast rates, use 4.0 – 8.0 pints per acre when 3 applications are planned and 12.0 pints per acre when 2 applications are planned. Apply sufficient water to provide uniform coverage or apply through irrigation water.															
			<table border="1"> <thead> <tr> <th data-bbox="867 1192 1062 1356" rowspan="2">Diameter of Tree Canopy (Feet)</th> <th colspan="2" data-bbox="1062 1192 1459 1262">Fluid Ounces of Product per Ten Trees</th> </tr> <tr> <th data-bbox="1062 1262 1263 1356">2 Applications per year</th> <th data-bbox="1263 1262 1459 1356">3 Applications per year</th> </tr> </thead> <tbody> <tr> <td data-bbox="867 1356 1062 1388">5</td> <td data-bbox="1062 1356 1263 1388">0.75</td> <td data-bbox="1263 1356 1459 1388">0.5</td> </tr> <tr> <td data-bbox="867 1388 1062 1419">10</td> <td data-bbox="1062 1388 1263 1419">3.8</td> <td data-bbox="1263 1388 1459 1419">2.5</td> </tr> <tr> <td data-bbox="867 1419 1062 1451">15</td> <td data-bbox="1062 1419 1263 1451">7.5</td> <td data-bbox="1263 1419 1459 1451">5.0</td> </tr> <tr> <td data-bbox="867 1451 1062 1472">20</td> <td data-bbox="1062 1451 1263 1472">15.0</td> <td data-bbox="1263 1451 1459 1472">10.0</td> </tr> </tbody> </table>	Diameter of Tree Canopy (Feet)	Fluid Ounces of Product per Ten Trees		2 Applications per year	3 Applications per year	5	0.75	0.5	10	3.8	2.5	15	7.5	5.0	20
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	2 Applications per year	3 Applications per year																
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10	3.8	2.5																
15	7.5	5.0																
20	15.0	10.0																
	Gummosis	4.0 pts/A (2.0 lbs ai/A)	Trunk Spray (AZ, CA and TX only): Mix in 3 gallons of water and spray the surface of the trunks using enough spray to thoroughly wet the cankers. Apply up to 3 times per year.															
		2.0 pts/A (1.0 lbs ai/A)	Trunk Spray (FL only): Mix in 3 gallons of water and spray the surface of the trunks using enough spray to thoroughly wet the cankers. Apply up to 3 times per year.															
	Use Restrictions:		<ul style="list-style-type: none"> • Do not use on highly susceptible sweet orange rootstock in Florida. • Do not use for disease control in greenhouse nurseries. • Do not make trunk and soil applications to the same tree. • Do not apply more than 8.0 pts (4.0 lb s ai) per application. • Do not apply more than 24.0 pts (12.0 lbs ai) per acre per year. • For Established Planting: Do not apply more than 3 applications at the highest specified use rate or 12 applications at the lowest specified use rate per acre per 															

	<p>year.</p> <ul style="list-style-type: none"> For Nurseries, Resets and New Plantings: Do not apply more than 3 applications at the highest specified use rate or 6 applications at the lowest specified use rate per acre per year.
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CROPS (continued)

CROP	DISEASES	RATE (pints per acre)	USE INSTRUCTIONS
CLOVER	Damping off (<i>Pythium</i> spp.)	0.5 – 1.0 pts/A	Soil Spray (broadcast): Apply as a broadcast surface spray at planting. If clover seed was previously treated with a metalaxyl or mefenoxam seed treatment product, use 0.5 pints per acre rate at planting.
	Root rots (<i>Phytophthora</i> spp.)	(0.25 – 0.50 lbs ai/A)	
Use Restrictions:			
<ul style="list-style-type: none"> Do not feed green forage or cut hay for 90 days following application. Do not apply more than 1.0 pt (0.50 lb s ai) per application. Do not apply more than 1.0 pt (0.5 lbs ai) per acre per year. Do not apply more than 1 application at the highest specified use rate or 2 applications at the lowest specified use rate per acre per year. 			
COLE CROPS Broccoli Broccoli, Chinese (gai lon) Broccoli Raab (rapini) Brussels sprouts Cabbage Cabbage, Chinese (bok choy and napa) Cauliflower Cavalo Broccoli Collards Kale Kohlrabi Mizuna Mustard Greens Mustard Spinach Rape Greens All hybrids and varieties of these	Damping off* (<i>Pythium</i> spp.)	2.0 – 4.0 pts/A	Preplant Incorporated Application (broadcast or band): Apply in water or liquid fertilizer to provide uniform coverage and incorporate into the top 2 inches of soil. For control of <i>Pythium</i> damping-off only use 0.5 to 1.0 pints per acre. For banded application, a 7-inch band is recommended.
	Basal stem rot (<i>Phytophthora</i> spp.)	(1.0 – 2.0 lbs ai/A)	
			Injection (drip irrigation): Inject INTERROGATE Fungicide into the irrigation water at labeled rates.
			Foliar (ground or air): INTERROGATE Fungicide must be applied in a tank mix with another fungicide registered for the control of downy mildew at the full rate of the companion product. Apply when conditions favor disease development but before infection has occurred. Apply on a 14-day schedule.
Use Restrictions:			
<ul style="list-style-type: none"> *Preplant incorporated application only. Do not use this product for disease control in greenhouse or field grown vegetable bedding plants. Do not dip plants in solutions containing this product or crop injury may occur. Do not use this product as a transplant water treatment. Do not apply for downy mildew if mildew is already established. 			

	<ul style="list-style-type: none"> Do not apply more than 4.0 pts (2.0 lb s ai) per application for soil applications. Do not apply more than 4.0 pints (2.0 lbs ai) per acre per year for soil applications. Do not apply more than 1 application at the highest specified use rate or 2 applications at the lowest specified use rate per acre per year for soil applications. Do not apply more than 0.50 pts (0.25 lb s ai) per application as a foliar spray. Do not apply more than 2.0 pints (1.0 lbs ai) per acre per year as a foliar spray. Do not apply more than 4 applications at the highest specified use rate or 8 applications at the lowest specified use rate per acre per year as a foliar spray. PHI (pre-harvest interval) = 7 days
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CROPS (continued)

CROP	DISEASES	RATE (pints per acre)	USE INSTRUCTIONS
COTTON	Seed and Root Rots Seedling Blight (<i>Pythium</i> spp.)	0.125 - 0.25 fl oz/1,000 row ft (0.004 – 0.008 oz ai/1,000 row ft)	In-furrow Spray: Apply in 5 to 15 gallons of water or liquid fertilizer at planting. Mount the spray nozzle so the spray is directed into the furrow over the seed just before the seeds are covered. This product may be combined with other labeled fungicides to provide broader control than the pests noted.
	Use Restrictions: <ul style="list-style-type: none"> Do not apply more than 7.8 fl oz (0.24 lbs ai) per acre per year. 		
CRANBERRIES	Phytophthora root rot (<i>Phytophthora</i> spp.)	2.0 - 3.5 pts/A (1.0 – 1.75 lbs ai/A)	Soil Spray (broadcast): Apply 3 times by ground or chemigation equipment Make the first application in the fall after harvest. Make the second application in the spring followed by a third application up to, but not later than, 45 days before harvest.
	Use Restrictions: <ul style="list-style-type: none"> Do not apply this product to cranberries by air. Do not apply more than 3.5 pts (1.75 lb s ai) per application. Do not apply more than 10.5 pints (5.25 lbs ai) per acre per year. Do not apply more than 3 applications at the highest specified use rate or 5 applications at the lowest specified use rate per acre per year. PHI (pre-harvest interval) = 45 days 		

CROPS (continued)

CROP	DISEASES	RATE (pints per acre)	USE INSTRUCTIONS
CUCURBIT VEGETABLES Chayote Chinese waxgourd Citron melon Cucumber Gherkin, Gourd, edible <i>Momordica</i> spp. (balsam apple, balsam pear, bitter melon Chinese cucumber) Muskmelon (cantaloupe, casaba, Crenshaw, Honeydew, Honey balls, Mango, Persian, pineapple,	Damping-off Cottony leak (<i>Pythium</i> spp.)	2.0 – 4.0 pts/A (1.0 – 2.0 lbs ai/A)	Preplant Incorporated Application (broadcast or band): Apply in water or liquid fertilizer to provide uniform coverage and incorporate into the top 2 inches of soil. For banded application, a 7-inch band is recommended.
	Phytophthora blight – Suppression (<i>Phytophthora</i> spp.)		Surface Application (broadcast or band): Apply at planting in water or liquid fertilizer to provide uniform coverage. For banded application, a 7-inch band is recommended. If natural rainfall is not expected before the seeds start germinating, this product should be incorporated mechanically before planting or be moved into the seed zone after planting with 0.5 to 1 inch irrigation.
			Injection (drip irrigation): Inject

Santa Claus, snake melons) Pumpkin Squash, summer Squash, winter Watermelon All hybrids and varieties of these			INTERROGATE Fungicide into the irrigation water at labeled rates.
	Root rot <i>(Pythium spp.)</i> Phytophthora blight – Suppression <i>(Phytophthora spp.)</i>	0.5 – 0.8 pts/A (0.25 – 0.4 lbs ai/A)	Soil Spray: If soil application was made of this product at planting, two additional applications may be made at 20 to 30-day intervals during the season. Direct the spray to the base of the plants and cover 6 to 8-inches of the soil on either side of the plants. Incorporate using either mechanical means or through irrigation to move the product into the root zone.
			Injection (drip irrigation): Inject INTERROGATE Fungicide into the irrigation water at labeled rates.
Use Restrictions: <ul style="list-style-type: none"> Do not use this product for disease control in greenhouse crops or on field-grown vegetable bedding plants. Do not dip plants in solutions containing this product or crop injury may occur. Do not apply more than 0.8 pts (0.40 lb s ai) per application as a soil application. Do not apply more than 4.0 pints (2.0 lbs ai) per acre per year from all methods of application combined. Do not apply more than 1 application at the highest specified use rate or 2 applications at the lowest specified use rate per acre per year as a preplant, surface or injection application. Do not apply more than 5 applications at the highest specified use rate or 8 applications at the lowest specified use rate per acre per year as a soil spray. PHI (pre-harvest interval) = 5 days 			

CROPS (continued)

CROP	DISEASES	RATE (pints per acre)	USE INSTRUCTIONS
DECIDUOUS NONBEARING FRUITS AND NUTS IN ORCHARDS	Crown rot Collar rot Root rot <i>(Phytophthora spp.)</i>		Use this product in conjunction with good cultural practices and tolerant rootstocks to minimize disease problems. Applications should be made before symptoms appear, especially in areas favorable for disease development. This product will not revitalize trees showing moderate to severe disease symptoms.
		8.0 pts/A (4.0 lbs ai/A)	Soil Spray (broadcast or band): New Plantings: Apply in sufficient water to obtain uniform coverage of the soil under the canopy of the trees. Make first application at time of planting. Additional applications should be made at 3-month intervals during the time when conditions are favorable for disease development. Established Plantings: Make the first application in the spring before growth starts.
Use Restrictions: <ul style="list-style-type: none"> Do not apply to plantings that will bear harvestable fruit within 12 months of the last application. To avoid injury, do not use this product as a dip or spray to tree roots. Do not concentrate product around the tree trunks. Do not apply to trees under stress. For intense plantings (2 to 3 times the normal planting rate) make applications on a per area basis. Do not calculate the amount of this product on a per tree basis. In California do not apply this product to newly planted trees within 90 days of planting. Do not apply more than 8.0 pts (4.0 lb s ai) per application. Do not apply more than 24.0 pts (12.0 lbs ai) per acre per year. Do not apply more than 3 applications per acre per year. 			

CROPS (continued)

CROP	DISEASES	RATE (pints per acre)	USE INSTRUCTIONS
FRUITING VEGETABLES Eggplant Groundcherry Pepper (bell, chili, cooking pepper, pimento, sweet) Tomatillo Tomato (see Tomato Section)	To control Crown Rot, apply before the plants are infected to obtain satisfactory control. Plants already infected with <i>Phytophthora</i> cannot be cured with this product. This product may cause some yellowing of the pepper leaves. In areas where there is a history of late <i>Phytophthora</i> infections, an application of another EPA registered fungicide labeled for <i>Phytophthora</i> control is recommended 17 to 21 days following the last application of this product.		
	Damping-off (<i>Pythium</i> spp.) Crown rot (<i>Phytophthora capsici</i>)	2.0 pts/A (1.0 lbs ai/A)	<p>Soil Spray (broadcast or band): Apply in water or liquid fertilizer preplant or at planting. For direct seeded peppers, apply preplant or prior to crop emergence.</p> <p>For banded applications, use 12 to 16-inch band.</p> <p>Injection (drip irritation): Inject this product into the irrigation water. Make up to 2 additional applications on a 30-day schedule following initial application at planting.</p> <p>Banded Spray: Make 2 post directed applications at 30-day intervals following transplanting. Direct the spray to the base of the plants and cover 6 to 8-inches of the soil on either side of the plants. Incorporate mechanically or sprinkler-irrigate to move the product into the root zone.</p> <p>Shank Application: Apply in liquid fertilizer, shanked in as a banded treatment to either side of the plant.</p>
	<p>Use Restrictions:</p> <ul style="list-style-type: none"> • The foliar blight phase of <i>Phytophthora</i> cannot be controlled with foliar applications of this product. • Do not use this product for disease control in greenhouses. • Do not apply more than 2.0 pts (1.0 lb s ai) per application. • Do not apply more than 6.0 pints (3.0 lbs ai) per acre per year. • Do not apply more than 3 applications per acre per year. • PHI (pre-harvest interval) = 7 days 		
	Phytophthora root rot (<i>Phytophthora cactorum</i>)	1.5 pts/A (0.75 lbs ai/A)	<p>Drench: Apply in 100 to 400 gallons of water uniformly to the soil surface in the spring before the plants begin growing.</p>
	<p>Use Restrictions:</p> <ul style="list-style-type: none"> • Do not apply more than 1.5 pts (0.75 lb s ai) of per application. • Do not apply more than 1.5 pints (0.75 lbs ai) per acre per year. • Do not apply more than 1 application per acre per year. 		

CROPS (continued)

CROP	DISEASES	RATE (pints per acre)	USE INSTRUCTIONS
GRAPES	Crown rot Root rot (<i>Phytophthora</i> spp.)	7.2 pts/A (3.6 lbs ai/A) OR 0.5 pts/1,000 row ft	Soil Spray (broadcast, or band): Apply in in the spring before the plants start growing in sufficient water to provide uniform coverage. Two additional applications may be made to coincide with periods most favorable for root rot development. For banded applications, use 3-foot band at the base of the plants.
	Use Restrictions: <ul style="list-style-type: none"> Do not apply more than 7.2 pts (3.6 lb s ai) per application. Do not apply more than 21.6 pints (10.8 lbs ai) per acre per year Do not apply more than 3 applications per acre per year. PHI (pre-harvest interval) = 60 days. 		
GRASSES, FORAGE, FODDER, HAY* *Any grass, Graminae family (either green or cured). See Use Restrictions.	Seeding diseases (<i>Pythium</i> spp.)	0.5 – 2.0 pts/A (0.25 – 1.0 lbs ai/A)	Soil Spray (broadcast): For stand establishment, apply 2.0 pts/A as a broadcast soil surface spray at planting in a minimum 20 gallons of water. If the grass seed was previously treated with a metalaxyl or mefenoxam seed treatment product, use 0.5 – 1.0 pts/A use rate.
	Use Restrictions: <ul style="list-style-type: none"> Do not apply to sugarcane. Do not apply to any of the following that will be fed or grazed by livestock: barley, buckwheat, corn, millet (pearl or proso), oats, popcorn, rice, rye, sorghum, teosinte, triticale, wheat, or wild rice. Do not apply to any enclosed pasture grasses or grasses grown for hay or silage such as Bermudagrass, bluegrass, bromegrass or fescue. Do not apply to range grasses. Do not graze, feed green forage, or cut for hay for 60 days following applications. Do not apply more than 2.0 pts (1.0 lb s ai) per application. Do not apply more than 2.0 pts (1.0 lb ai) per acre per year. Do not apply more than 1 application at the highest specified use rate or 4 applications at the lowest specified use rate per acre per year. 		
HOPS	Downy mildew (<i>Pseudoperonospora humulii</i>)	1.0 pts/A (0.5 lbs ai/A)	Soil Application (drench, or drip/micro-sprinkler irrigation): Apply as a drench in water or liquid fertilizer to the soil over the crows after pruning but before training when shoots are 6-inches or less. INTERROGATE Fungicide may also be applied via drip/micro-sprinkler irrigation. Foliar Spray: Apply by ground in a minimum of 50 gallons of water. Apply when there is evidence of secondary infection (primary infection persists after the soil application and/or there is evidence of foliar infection). Apply in combination with a copper fungicide registered for use in hops.
	Use Restrictions: <ul style="list-style-type: none"> Do not apply foliar sprays of this product without a copper fungicide registered for use on hops. Do not apply more than 1.0 pts (0.50 lb s ai) per application. Do not apply more than 3.0 pts (1.5 lbs ai) per acre per year. Do not apply more than 3 applications per acre per year. PHI (pre-harvest interval) = 45 days. 		

CROPS (continued)

CROP	DISEASES	RATE (pints per acre)	USE INSTRUCTIONS
LEAFY VEGETABLES Celery Gardengrass Cress (upland) Endive Fennel Lettuce (head and leaf) Parsley Rhubarb Spinach Swiss Chard	Damping-off (<i>Pythium</i> spp.)	2.0 – 4.0 pts/A (1.0 – 2.0 lbs ai/A)	<p>Preplant Incorporated Applications: Apply in water or liquid fertilizer to provide uniform coverage and incorporate in the top 2 inches of soil.</p> <p>For banded applications, a minimum of a 7-inch band is recommended.</p> <hr/> <p>Surface Application: Apply at planting in sufficient water or liquid fertilizer to provide uniform coverage.</p> <p>For banded applications, a minimum of a 7-inch band is recommended.</p> <p>If natural rainfall is not expected before the seeds start germinating, this product should be incorporated mechanically before planting or be moved into the seed zone after planting with 0.5 to 1-inch sprinkler irrigation.</p>

Use Restrictions for Leafy Vegetables:

- The additional applications of this product noted above and made after each cutting by shanking the fungicide into the beds along with liquid fertilizer provide continued control of white rust. However, white rust can only be controlled in a preventative disease control program that begins with an application of this product to the soil at planting. If this product is not used at planting, do not use this product at any other time throughout the season. Do not apply this product in foliar applications or in situations where white rust infections are already established. The use of this product in curative applications greatly increases the risk of the fungus developing insensitivity to metalaxyl/mefenoxam. The development of insensitivity will destroy the effectiveness of this product in controlling white rust.
- Do not use this product for disease control in greenhouse crops.
- Do not apply this product in fields where downy mildew is already established.
- Do not use this product as a transplant water treatment.
- Do not apply more than 4.0 pts (2.0 lbs ai) per application.
- Do not apply more than 4.0 pts (2.0 lbs ai) per acre per year.
- Do not apply more than 1 application at the highest specified use rate or more than 2 applications at the lowest specified use rate per acre per year.
- PHI (pre-harvest interval) = 7 days.

CROPS (continued)

CROP	DISEASES	RATE (pints per acre)	USE INSTRUCTIONS
<p>LEGUME VEGETABLES (Succulent or Dried) Bean (<i>Lupinus</i> spp.) (grain, lupin, sweet lupin, white lupin, white sweet lupin) Bean (<i>Phaseolus</i> spp.) (field, kidney, lima, navy, pinto, runner, snap, tepary, wax) Bean (<i>Vigna</i> spp.) (adzuki, asparagus, blackeyed pea, caijang, Chinese long bean, cowpea, crowder pea, moth, mung, rice, southern pea, urd, yardlong) Broad Bean (fava bean) Chickpea (garbanzo bean) Guar Jackbean Lablab bean (hyacinth bean) Lentil Pea (<i>Pisum</i> spp.) (dwarf, edible-pod, English, field, garden, green, snow, sugar snap) Pigeon pea Soybean (immature seed) (Also see Soybean section for specific use directions) Sword bean</p>	<p>Damping-off Root rot (<i>Pythium</i> spp.)</p>	<p>1.0 – 2.0 pts/A (0.5 – 1.0 lbs ai/A)</p>	<p>Preplant Incorporation Application (broadcast or band): Apply in sufficient water or liquid fertilizer to provide uniform coverage and incorporate in the top 2-inches of soil. For banded application, a 7-inch band is recommended.</p> <p>Surface Application (broadcast or band): Apply at planting in sufficient water or liquid fertilizer to provide uniform coverage. For banded application, a 7-inch band is recommended.</p>
<p>Use Restrictions:</p> <ul style="list-style-type: none"> • Do not use this product for disease control in greenhouse or field grown vegetable bedding plants. • Do not apply more than 2.0 pts (1.0 lb s ai) per application. • Do not apply more than 2.0 pts (1.0 lb ai) per acre per year. • Do not apply more than 1 application at the highest specified use rate or 2 applications at the lowest specified use rate per acre per year. 			

CROPS (continued)

CROP	DISEASES	RATE (pints per acre)	USE INSTRUCTIONS
ONIONS Dry Bulb Garlic Onions (dry bulb) Shallots (dry bulb) Green Green eschalots Green onions Green shallots Japanese bunching onions Leeks Scallions Spring onions Onions Grown for Seed	Damping-off (<i>Pythium</i> spp.)	1.0 – 2.0 pts/A (0.5 – 1.0 lbs ai/A)	<p>Preplant Incorporated (broadcast or band): Apply in sufficient water or liquid fertilizer to provide uniform coverage and incorporate in the top 2-inches of soil.</p> <p>For banded application, a 7-inch band is recommended.</p> <hr/> <p>Surface Application (broadcast or band): Apply at planting in sufficient water or liquid fertilizer to provide uniform coverage.</p> <p>For banded application, a 7-inch band is recommended. If natural rainfall is not expected before the seeds start germinating, this product should be incorporated mechanically before planting or be moved to the seed zone after planting with 0.5 to 1-inch sprinkler irrigation.</p>
	<p>Use Restrictions:</p> <ul style="list-style-type: none"> Do not use this product for disease control in greenhouse or field-grown vegetable bedding plants. <p>For Bulb Onions:</p> <ul style="list-style-type: none"> Do not apply more than 2.0 pts (1.0 lb s ai) per application. Do not apply more than 4.0 pts (2.0 lbs ai) per acre per year for soil applications or 2.0 pts (1.0 lbs ai) per acre per year for foliar applications. For Soil Applications. Do not apply more than 2 applications at the highest specified use rate or 4 applications at the lowest use rate per acre per year. For Foliar Applications: Do not apply more than 1 application at the highest specified use rate of 2 applications at the lowest specified use rate per acre per year. <p>For Green Onions:</p> <ul style="list-style-type: none"> Do not apply more than 2.0 pts (1.0 lb s ai) per application for soil application. Do not apply more than 4.0 pts (2.0 lbs ai) per acre per year for soil applications or 1.2 pts (0.6 lbs ai) per acre per year for foliar applications. For Soil Applications. Do not apply more than 2 applications at the highest specified use rate or 4 applications at the lowest specified use rate per acre per year. For Foliar Applications: Do not apply more than 1 application per acre per year. 		
PEANUTS	Seeding and pod diseases (<i>Pythium</i> spp.)	0.5 pts/A (0.25 lbs ai/A)	<p>Seedling Disease: Apply as an application to the seed in-furrow or in a 7-inch band at the time of planting. For the in-furrow applications, position the spray so the fungicide is mixed with the soil covering the seed. Avoid spraying the seed directly with the spray solution or crop injury may occur.</p>
		1.0 – 2.0 pts/A (0.5 – 1.0 lbs ai/A)	<p>Pod Rot: Apply at early pod set or pegging through as a soil spray or at pegging as a foliar spray (overhead irrigation systems). See the APPLICATION THROUGH IRRIGATION SYSTEMS section of this label for further instructions and precautions when making applications through irrigation systems.</p>

		Where pathogens other than <i>Pythium</i> spp. are present, use fungicides that control those diseases in combination with this product.
		Where the predominate pod rot pathogens are <i>Pythium</i> spp. and <i>Rhizoctonia</i> spp. use this product at 1 to 2 pts per acre tank mixed with a product labeled for the control of <i>Rhizoctonia</i> spp.
Use Restrictions: <ul style="list-style-type: none"> Do not apply more than 2.0 pts (1.0 lb s ai) per application. Do not apply more than 2.5 pts (1.25 lbs ai) per acre per year. Do not apply more than 1 application at the highest specified use rate or 5 applications at the lowest specified use rate per acre per year. 		

CROPS (continued)

CROP	DISEASES	RATE (pints per acre)	USE INSTRUCTIONS
PINEAPPLE	Heart rot disease (<i>Phytophthora</i> spp.)	1.0 – 2.0 pts per 100 gallons	Crown Dip: Apply as a crown dip before planting. Amount of dip solution per acre will depend on crown size, planting density, and dipping techniques. Use 75 to 100 gallons of mixture per acre.
	Use Restrictions: <ul style="list-style-type: none"> If there is a crop failure within 1 year of planting treated crowns, do not harvest plant material for animal feed. Apply only once as a crown dip treatment before treatment. Do not apply more than 2.0 pts (1.0 lb s ai) per application. Do not apply more than 2.0 pts (1.0 lbs ai) per acre per year Do not apply more than 1 application at the highest specified use rate or 2 applications at the lowest specified use rate per acre per year. 		
POTATOES	Pythium leak (<i>Pythium</i> spp.)	0.84 fl oz/ 1,000 row feet	In-Furrow: Apply directly over the seed pieces in-furrow as a 6 to 8-inch band prior to row closure. Apply in a minimum of 3 gallons of water per acre. You may need to follow this in-furrow application with a foliar applied fungicide at tuber initiation: <ul style="list-style-type: none"> when conditions are conducive for disease development; when variety planted is susceptible or moderately susceptible (pink rot/Pythium leak); in areas with a long growing season. This product may be impregnated on dry fertilizer or applied in combination with liquid fertilizers.
	Pink rot (<i>Phytophthora erythroseptica</i>) Seedling disease (<i>Pythium</i> spp.)	(0.026 oz ai/ 1,000 row feet)	
Use Restrictions: <ul style="list-style-type: none"> Do not use the “dribble” application method. Apply mixture through pumping system only. Do not apply more than 1.37 pts (0.685 lbs ai) per acre per year. Do not use product for disease control in greenhouse or field-grown vegetable bedding plants. PHI (pre-harvest interval) = 14 days. 			

RASPBERRIES	Phytophthora root rot (<i>Phytophthora</i> spp.)	0.5 pts/ 1,000 row feet	Apply to the soil surface in a 3-foot band over the row. Make 1 application in the spring and another in the fall after harvest.
	Use Restrictions: <ul style="list-style-type: none"> Do not apply more than 14.4 pts (7.2 lbs ai) per acre per year. PHI (pre-harvest interval) = 0 days. 		

CROPS (continued)

CROP	DISEASES	RATE (pints per acre)	USE INSTRUCTIONS
ROOT AND TUBER VEGETABLES Arracacha Arrowroot Artichoke (Chinese and Jerusalem) Beet, garden Beet, sugar (see Sugar Beet section) Burdock, edible Canna, edible Cassava (bitter and sweet) Carrots Celeriac (celery root) Chayote (root) Chervil, turnip-rooted Chicory Chufa Dasheen (taro) Ginger Ginseng (see Ginseng section) Horseradish Leren Parsley, turnip-rooted Parsnip Potato (see Potato section) Radish Radish, oriental (daikon) Rutabaga Salsify (oyster plant, black, Spanish) Skirret Sweet potato Tanier (cocoyam) Turmeric Turnip Yam bean Jicama, manioc pea) Yam, true	<i>Pythium</i> spp. <i>Phytophthora</i> spp.	2.0 – 4.0 pts/A (1.0 – 2.0 lbs ai/A)	Preplant Incorporated Applications (broadcast or band): Apply in sufficient water or liquid fertilizer to provide uniform coverage and incorporate in the top 2-inches of soil. For banded applications, a 7-inch band is recommended.
			Surface Application (broadcast or band): Apply at planting in sufficient water or liquid fertilizer to provide uniform coverage. For banded applications, a 7-inch band is recommended. If natural rainfall is not expected before the seeds start germinating, this product should be incorporated mechanically before planting or be moved into the seed zone after planting with 0.5 to 1-inch sprinkler irrigation.
Use Restrictions: <ul style="list-style-type: none"> Do not use this product for disease control in greenhouse or field-grown vegetable bedding plants. Do not apply more than 4.0 pts (2.0 lbs ai) per application. Do not apply more than 4.0 pts (2.0 lbs ai) per acre per year. Do not apply more than 1 application at the highest specified use rate of 2 applications at the lowest specified use rate per acre per year. 			

CROPS (continued)

CROP	DISEASES	RATE (Pints per Acre)	USE INSTRUCTIONS
SOYBEANS	<p>This product is specific for <i>Pythium</i> and <i>Phytophthora</i> and will not control other diseases that may attack soybeans.</p> <p>Under heavy late season <i>Phytophthora</i> pressure, this product may not provide complete control.</p> <p>For best results, use soybean varieties that have some degree to the races of <i>Phytophthora</i> present in the field.</p>		
	Phytophthora root and stem rot (<i>Phytophthora megasprema</i>) Pythium damping-off (<i>Pythium</i> spp.)	0.15 - 0.55 fl oz/1,000 row feet (0.0050 – 0.0174 oz ai/1,000 row feet)	In-Furrow: Apply in-furrow with water or liquid fertilizer at planting. Position the spray so the fungicide is mixed with the soil covering the seed. Avoid spraying the seed directly with the spray solution or crop injury may occur. Use the high rate for full season control.
		0.75 – 2.5 pts/A (0.375 – 1.25 lbs ai/A)	Soil Spray (broadcast or band): Apply in sufficient water or liquid fertilizer to provide uniform coverage at the time of plantings. Use the high rate for full season control or in areas with a history of heavy <i>Phytophthora</i> damage. For banded applications, a 7-inch band is recommended.
	Use Restrictions: <ul style="list-style-type: none"> • Do not apply more than 2.5 pts (0.50 lb ai) per application. • Do not apply more than 2.5 pts (1.25 lbs ai) of INTERROGATE Fungicide per acre per year. • Do not apply more than 1 application at the highest specified use rate or 3 applications at the lowest specified use rate per acre per year when applying as a soil spray. 		

CROPS (continued)

CROP	DISEASES	RATE (pints per acre)	USE INSTRUCTIONS
<p>STONE FRUITS Apricot Cherries (sweet and tart) Nectarine Peach Plum (Chickasaw, Damson, Japanese) Plumcot Prune (fresh) Hybrids or cultivars of these</p>	<p>Crown rot Collar rot Root rot (<i>Phytophthora</i> spp.)</p>	<p>8.0 pts/A (4.0 lbs ai/A) OR (3.0 fl oz/1,000 sq ft)</p>	<p>Soil Spray (broadcast, band or irrigation): Apply to soil beneath the tree canopy or apply through irrigation water (micro-sprinkler or drip) to cover the root zone two weeks after planting (new plantings) or in the spring before growth begins (established plantings). Additional applications should be made at 2 to 3-month intervals depending on disease pressure. For intense plantings (2 to 3 times the normal planting rate) make applications on a per area basis. Use this product in conjunction with good cultural practices and rootstocks that are most tolerant to the disease. Apply before symptoms appear. This product will not revitalize trees showing moderate to severe disease symptoms.</p> <p>Use Restrictions:</p> <ul style="list-style-type: none"> Do not dip the roots of trees in the treatment solution, spray the roots, or concentrate the treatment around the tree trunks or injury may occur. Do not apply to trees that are under stress. In California, do not apply to newly planted trees within 45 days of planting. On some varieties, chlorosis may occur on leaf margins. Do not graze livestock in treated areas. Do not graze or feed cover crops in treated orchards. Do not apply more than 8.0 pts (4.0 lb s ai) per application. Do not apply more than 3 gallons (12.0 lbs ai) per acre per year. Do not make more than 3 applications per acre per year.
<p>STRAWBERRIES</p>	<p>Red stele (<i>Phytophthora fragariae</i>) Vascular collapse (<i>P. cactorum</i>) Leather rot (<i>P. cactorum</i>)</p>	<p>2.0 pts/A (1.0 lbs ai/A)</p>	<p>Banded, Drip or Overhead Chemigation: Annual Plantings: Apply in sufficient water to move the fungicide into the root zone of the plants. Make first application after transplanting. Make second application 30 days before the beginning of harvest or at fruit set. Apply the third application during the harvest season, depending on environmental conditions and disease pressure. Established Plantings: Apply in sufficient water to move the fungicide into the root zone of the plants. Make first application in the spring after the ground thaws and before first bloom. Make second application after harvest in the fall. For supplemental control of leather rot, make an application during the growing season at fruit set. If applying through drip irrigation systems, use the same amount as would be applied in a band application to cover the root zone of the plants. For low annual rainfall areas, a surface application of this product needs to be moved into the root zone by rainfall, overhead irrigation, or mechanical incorporation.</p>

<p>Use Restrictions:</p> <ul style="list-style-type: none"> • Do not apply more than 2.0 pts (1.0 lb s ai) per application. • Do not apply more than 6.0 pts (3.0 lbs ai) per acre per year for soil applications and the equivalent of 1 lb metalaxyl per acre per year from any foliar-applied metalaxyl product. • Do not apply more than 3 applications per acre per year.

CROPS (continued)

CROP	DISEASES	RATE (Pints per Acre)	USE INSTRUCTIONS
SUGAR BEETS	<i>Pythium</i> spp.	2.0 – 4.0 pts/A (1.0 – 2.0 lbs ai/A)	<p>Preplant Incorporated Application (broadcast or band): Apply in sufficient water or liquid fertilizer and incorporate in the top two inches of soil.</p> <p>For banded applications, a 7-inch band is recommended.</p>
			<p>Soil Spray (broadcast or band): Apply at planting in sufficient water or liquid fertilizer to provide uniform coverage.</p> <p>For banded applications, a 7-inch band is recommended.</p> <p>If natural rainfall is not expected before the seeds begin germinating, this product should be incorporated mechanically before planting or be moved into the seed zone after planting with 0.5 to 1-inch sprinkler irrigation.</p>
<p>Use Restrictions:</p> <ul style="list-style-type: none"> • Do not apply more than 4.0 pts (2.0 lb s ai) per application. • Do not apply more than 4.0 pts (2.0 lbs ai) per acre per year. • Do not apply more than 1 application at the highest specified use rate or 2 applications at the lowest specified use rate per acre per year. 			
TOBACCO	Damping-off (<i>Pythium</i> spp.)	1.0 – 2.0 pts/A (0.5 – 1.0 lbs ai/A)	<p>Soil Spray (broadcast): Apply as a preplant soil application before or at time of planting. Use higher application rate on broadleaf tobacco.</p>
	Blue mold (<i>Peronospora tabacina</i>)	OR 0.5 – 1.0 fl oz/150 sq yd	<p>Field Planted Tobacco: Apply as a broadcast soil application prior to transplanting and incorporate in the top 2 to 4 inches of the foil before forming beds.</p> <p>For flue-cured tobacco, use 1 to 2 pints per treated acre, depending on disease pressure and length of control desired. Under low disease pressure or for early season control, use 1 pint per treated acre. For burley and other tobacco types, use 1 quart per treated acre.</p> <p>For prolonged control make a supplemental application of 1 pint per acre of crop as a soil application at layby or the last cultivation. Position the nozzles so that the spray is deposited under the plants and is covered bsoil by the cultivator. Do not make this application if more than 1 quart per acre of this product was applied prior to transplanting or if no product was applied prior to transplanting.</p>

			<p>No Till Tobacco: Apply to the field prior to transplanting. Apply as a preplant, broadcast or banded soil application. A supplemental layby application may be made 30 to 35 days after planting at 1 pint per acre. Do not make a layby application if more than 1 quart per acre of this product was applied at transplanting or if no product was applied at transplanting.</p>		
	<ul style="list-style-type: none"> For best control of blue mold use this product in the field plant bed and follow with an application in the field prior to transplanting. Do not use this product in transplant water or in foliar application on field tobacco because of the potential for the development of insensitivity in the blue mold fungus, crop injury, or potential excessive residues in the crop. 				
CROP	DISEASES	RATE (Pints per Acre)	USE INSTRUCTIONS		
TOBACCO (continued)	Black Shank (<i>Phytophthora parasitica</i> var. <i>nicotiana</i>)	2.0 to 6.0 pts/A (1.0 – 3.0 lbs ai/A)	Use as a broadcast soil application prior to transplanting and incorporate in the top 2 to 4 inches of soil before forming beds. Apply this product using conventional ground application equipment in sufficient water or liquid/dry fertilizer to provide uniform coverage. Use the following table to determine the amount of this product needed per acre depending on the black shank severity.		
			Type of Tobacco	Disease Level In Field	Rate of Product per Acre
			Flue-Cured	Low to Moderate (< 6% disease)	2 pints
				High (> 6% disease)	4 pints*
			Burley and Other	Low to Moderate (< 6% disease)	4 pints
				High (> 6% disease)	6 pints
			* In FL and GA use 3 quarts per treated acre of this product in fields with heavy black shank levels (greater than 6%).		
For prolonged control of black shank in field planted tobacco, one of the following is recommended: (1) Make a preplant incorporated and a supplemental lay-by application (last cultivation). Apply the supplemental application at last cultivation at the rate of 1 to 2 pints per acre as a soil treatment. Position the nozzles so that the spray is deposited under the plants and is covered with soil by the cultivator.					
Apply this product at 1 quart per acre just prior to transplanting followed by a second application of 1 quart per acre at the first cultivation followed by a third application of 1 quart per acre at lay-by or the last cultivation.					

	<ul style="list-style-type: none"> • For best results against black shank, use this product with tobacco varieties that have high resistance to black shank and use crop rotation. • In fields where there is a history of severe black shank, use the highest specified rate and plant a variety that is resistant to the race of Phytophthora present in the field (Burley L8 hybrids are only resistant to Phytophthora Race O). • This product is not recommended for use in high black shank areas on highly susceptible flue-cured varieties. • In Pennsylvania, do not use this product for black shank control. • Failure to adequately control nematodes in fields treated with this product may result in poor control of black shank.
TOBACCO (continued)	<p>Use Restrictions:</p> <ul style="list-style-type: none"> • Do not use this product for black shank control in PA. • Do not make this application if more than 1 quart per acre of this product was applied prior to transplanting or if no product was applied prior to transplanting. • Do not use this product in transplant water or in foliar applications on field tobacco because of the potential for the development of insensitivity in the blue mold fungus, crop injury, or potential excessive residues in the crop. • Do not make this application if more than 1 quart per acre of this product was applied at transplanting; or (2) Make a preplant incorporated plus 2 supplemental applications at first cultivation and last cultivation (lay-by). • Do not make any lay-by application if more than 1 quart per acre of this product was applied at transplanting or if no product was applied at transplanting. • Do not apply more than 6.0 pts (3.0 lbs ai) per acre per application • Do not apply more than 6.0 pts (3.0 lbs ai) per acre per year. • Do not apply more than 1 application at the highest specified use rate or 6 applications at the lowest specified use rate per acre per year. • Do not use this product for disease control in greenhouses.

CROPS (continued)

CROP	DISEASES	RATE (pints per acre)	USE INSTRUCTIONS
TOMATO	Damping-off (<i>Pythium</i> spp.)	2.0 – 4.0 pts/A (1.0 – 2.0 lbs ai/A)	<p>Soil Spray (broadcast or band): Apply in sufficient water or liquid fertilizer to provide uniform coverage at the time of planting.</p> <p>For banded applications, a 7-inch band is recommended.</p> <p>If rainfall is not expected before the seeds start to germinate, this product should be incorporated mechanically before planting, during the planting operation, or be moved into the seed zone after planting with 0.5 to 1- inch sprinkler irrigation.</p>
	Root and Fruit Rot (<i>Phytophthora</i> spp.) (<i>Pythium</i> spp.)	2.0 pts/A (1.0 lbs ai/A)	<p>Soil Spray (broadcast or band) or Soil Injection: To aid in the control of root and fruit rot, 1 to 2 additional applications may be made during the growing season.</p> <p>Apply as a directed soil surface spray under the vines or injected into the beds with water or liquid fertilizer.</p> <p>Begin application 4 to 6 weeks after planting. A second application of 2 pints per acre may be made depending on the severity of the conditions for disease infection up to 4 weeks before harvest, but before the last irrigation.</p> <p>If product is injected into the beds with liquid fertilizer, base calculations on a 7-inch band.</p>

			<p>If soil surface sprays are used, this product must be incorporated into the soil with 0.5 to 1 inch of rainfall or sprinkler irrigation.</p> <p>Keep this product suspended in the fertilizer solution with bypass or mechanical agitation.</p>
<p>Use Restrictions:</p> <ul style="list-style-type: none"> Do not use this product for disease control in greenhouse crops. Do not use this product as a transplant water treatment. Do not apply more than 4.0 pts (2.0 lb s ai) per application. Do not apply more than 6.0 pts (3.0 lbs ai) per acre per year Do not apply more than 1 application at the highest specified use rate or 3 applications at the lowest specified use rate per acre per year. 			

CROPS (continued)

CROP	DISEASES	RATE (Pints per Acre)	USE INSTRUCTIONS
<p>TREE NUTS Almond Walnut</p>	<p>Crown rot Collar rot Root rot (<i>Phytophthora</i> spp.)</p>	<p>8.0 pts/A (4.0 lbs ai/A) OR (3.0 fl oz/ 1,000 sq ft)</p>	<p>Soil Spray (broadcast, band or irrigation): Apply to soil beneath the tree canopy or apply through irrigation water (micro-sprinkler or drip) to cover the root zone two weeks after planting (new plantings) or in the spring before growth begins (established plantings). Additional applications should be made at 2 to 3-month intervals depending on disease pressure. For intense plantings (2 to 3 times the normal planting rate) make applications on a per area basis. Use this product in conjunction with good cultural practices and rootstocks that are most tolerant to the disease. Apply before symptoms appear. This product will not revitalize trees showing moderate to severe disease symptoms.</p>
			<p>Use Restrictions:</p> <ul style="list-style-type: none"> Do not dip the roots of trees in the treatment solution, spray the roots, or concentrate the treatment around the tree trunks or injury may occur. Do not apply to trees that are under stress. In California, do not apply to newly planted trees within 45 days of planting. On some varieties, chlorosis may occur on leaf margins. Do not graze livestock in treated areas. Do not graze or feed cover crops in treated orchards. Do not apply more than 8.0 pts (4.0 lb s ai) per application. Do not apply more than 3 gallons (12.0 lbs. ai) per acre per year. Do not apply more than 3 applications per acre per year.
<p>TROPICAL FRUIT Papaya (Hawaii Only)</p>	<p>Phytophthora root rot (<i>Phytophthora</i> spp.)</p>	<p>3.5 – 7.0 pts/A (1.75 – 3.5 lbs ai/A)</p>	<p>In Field, New Planting: Make first application at the time of transplanting to the field or within 1 week of transplanting. Apply as a soil surface spray in sufficient water to obtain thorough coverage of the soil under the canopy of trees. After application, immediately irrigate with 1/8 to 1/4 inch of water. Repeat in 2 to 4 weeks if conditions are favorable for disease. Use table below as</p>

			a guide for treating individual trees.										
			<table border="1"> <thead> <tr> <th>Diameter of Tree Canopy (Feet)</th> <th>Fluid Ounces per Ten Trees</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>0.1 - 0.2</td> </tr> <tr> <td>4</td> <td>0.2 - 0.4</td> </tr> <tr> <td>6</td> <td>0.5 - 0.75</td> </tr> <tr> <td>8</td> <td>0.63 - 1.25</td> </tr> </tbody> </table>	Diameter of Tree Canopy (Feet)	Fluid Ounces per Ten Trees	3	0.1 - 0.2	4	0.2 - 0.4	6	0.5 - 0.75	8	0.63 - 1.25
Diameter of Tree Canopy (Feet)	Fluid Ounces per Ten Trees												
3	0.1 - 0.2												
4	0.2 - 0.4												
6	0.5 - 0.75												
8	0.63 - 1.25												
		<p>Use Restrictions:</p> <ul style="list-style-type: none"> • Do not apply more than 2 applications per year in the fields to newly transplanted stock. • Do not apply more than 7.0 pts (3.5 lb s ai) per application. • Do not apply more than 1.75 gallons (3.5 lbs. ai) per acre per year. • Do not apply more than 2 applications at the highest specified use rate and 4 applications at the lowest specified use rate per acre per year. • PHI (pre-harvest interval) = 3 months. 											

ORNAMENTALS

INTERROGATE Fungicide is a systemic fungicide will control water mold, damping off, root rot, stem-rot and crown rot diseases caused by *Pythium* spp. and *Phytophthora* spp. Use this product on container, bench, or bed-grown ornamentals in greenhouses or outdoor nurseries, for professional use on ornamentals grown for indoor and outdoor landscaping, and for control of fungal diseases of foliage, flowers and stems.

Applications can be made to the soil through irrigation systems, as a soil drench, as a soil surface spray, or as a soil incorporated mix prior to or at seeding or transplanting according to the guidelines below.

Use the lowest specified use rates of the rate ranges for the shortest application intervals listed, and higher specified use rates for longer application intervals. This product can be tank mixed with other ornamental fungicides, however, do not mix with other products unless prior use has proven compatibility.

For soil drench applications, use enough solution to wet the root zone of the plants. In general, 1 pint (16 fluid ounces) per square foot of this solution is sufficient for ornamentals growing in containers or benches with 4 inches of growth media or less. Containers or benches with growing media greater than 4 inches generally require 1.5 to 2 pints (24 to 32 fluid ounces) of solution per square foot. Where soil surface applications are made, irrigate with at least 1/2 inch of water if rainfall does not occur within seven days of the application.

Plant tolerance to this product has been shown to be acceptable on a wide variety of bedding, flowering, and foliage plants, as well as trees and shrubs. But due to the large number of species and varieties, neither the manufacturer nor the seller has determined whether or not this product can be used safely on all ornamental plants. Prior to any large-scale application on such plants, the user must determine the safety of this product by testing a small number of the type of plants to be treated at the specified rates and under the desired growing conditions. The user assumes all risks arising out of application to untested plants.

ORNAMENTALS (continued)

CROP	RATE (fluid ounces)	USE INSTRUCTIONS
FOLIAGE PLANTS: Aglaonema Aphelandra Dieffenbachia Peperomia Philodendron* Pathos** Schefflera Sedum Sempervivum Zygocactus	0.25 to 0.62 fl oz per 100 gallons of water	Drench: Apply 1 pint of solution per square foot. For growth media depth greater than 4-inches, apply 1.5 to 2.0 pints of solution per square foot. Repeat applications at 2 to 3-month intervals, if necessary.
	* On Philodendron, use 0.5 to 1.0 fluid ounces per 100 gallons. ** Precaution: To minimize the potential for injury to Pothos, do not use more than 0.38 fluid ounces per 100 gallons and do not apply more frequently than once every 3 months.	
	0.12 to 0.25 fl oz per cubic yard	Soil Mix: Apply to growing media mix just before planting. Thoroughly mix with each cubic yard soil mixture. Mix enough for current use.
	1.0 fl oz per 1,000 sq ft.	Soil Surface Spray: Apply to the soil surface in a broadcast or banded spray in sufficient water to obtain thorough coverage of the plant root zone. After application, irrigate with a minimum of 1/2 inch of water if rainfall does not occur within 7 days.
	Use Restrictions: <ul style="list-style-type: none"> • Do not store as a soil mix. • Do not apply more than 2.5 fl oz/1,000 sq ft (0.08 lb ai/1,000 sq ft) or 0.85 gal/A (3.4 lb ai/A) of INTERROGATE Fungicide per application. • Do not apply more than 9 fl oz/1,000 sq ft (0.28 lb ai/1,000 sq ft) or 3.08 gal/A (12.3 lb ai/A) of per year. • Do not apply more than 3.6 applications of INTERROGATE Fungicide per year. • Minimum retreatment interval: 60 days 	
BEDDING PLANTS: Ageratum Algerian Ivy Artemisia Aster Begonia Caladium Carnation Chrysanthemum Coleus Daisy English Ivy* Foxglove Gailardia Geranium Impatiens Marigold Pansy Petunia Phlox Pinks Primrose Prostrate Rosemary Salvia Snapdragon Verbena Vinca Zinnia	0.12 to 0.25 fl oz per 100 gallons of water	Drench at Seeding (Soil 2-3 inches deep): Apply 1 pint of solution per square foot.
	0.25 to 1.0 fl oz per 100 gallons of water	Drench at Transplanting (Soil 2-3 inches deep): Apply 1 pint of solution per square foot. Repeat applications at 1 to 2-month intervals, if necessary.
	0.125 fl oz per cubic yard	Soil Mix at Seeding and at Transplanting: Apply to seeding and at transplanting. Thoroughly mix with each cubic yard soil mixture. Mix enough for current use. Do not store.
	1.0 fl oz per 1,000 sq ft	Soil Surface Spray: Apply in a broadcast or banded spray in sufficient water to obtain thorough coverage of the plant root zone. After application, irrigate with a minimum of 1/2 inch of water if rainfall does not occur within 7 days.
	Use Restrictions: <ul style="list-style-type: none"> • *Do not apply to English Ivy more than once every 6 months. • Do not apply more than 1.3 fl oz/1,000 sq ft (0.04 lb ai/1,000 sq ft) or 0.43 gal/A (1.7 lb ai/A) of INTERROGATE Fungicide per application. • Do not apply more than 9 fl oz/1,000 sq ft (0.28 lb ai/1,000 sq ft) or 3.08 gal/A (12.3 lb ai/A) of INTERROGATE Fungicide per year. • Do not apply more than 7 applications of INTERROGATE Fungicide per year. • Minimum retreatment interval: 30 days 	

ORNAMENTALS (continued)

CROP	RATE (fluid ounces)	USE INSTRUCTIONS
FLOWERS: African violet Anthurium Baby's breath Carnation Chrysanthemum Columbine Delphinium Easter lily* Geranium Gloxinia Poinsettia Rose	0.2 to 1.0 fl oz per 100 gallons of water	Drench Mix: Apply 1 .0 pint of solution per square foot. For growth media depth greater than 4-inches, apply 1.5 to 2.0 pints of solution per square foot. Repeat applications at 1 to 2-month intervals, if necessary.
	0.25 to 1.0 fl oz per 100 gallons of water	Soil Drench Applications at the Time of Transplanting: For media with a depth of less than 4-inches, apply at a volume of 16.0 fluid ounces per square foot. For media with a depth of 4-inches or more, apply at a volume of 24.0 to 32.0 fluid ounces per square foot. Repeat applications at 4 to 12-week intervals as needed.
	1.0 fl oz per 1,000 sq ft	Soil Surface Spray Applications in the Landscape: Apply in a broadcast or banded spray in sufficient water to obtain thorough distribution of the plant root zone. After application, irrigate with a minimum of a 1/2 inch of water if rainfall does not occur within 7 days. Repeat applications at 2 to 3-month intervals as needed.
	0.13 to 0.25 fl oz per cubic yard	Soil Media Incorporation: Thoroughly mix this product into each cubic yard of soil media.
	Use Restrictions: <ul style="list-style-type: none"> • Do not apply more than 0.5 fluid ounce per 100 gallons to Easter Lilies and only make a single application at the time of planting. • Drench Mix: Do not apply rates of 0.75 to 1.0 fluid ounces per 100 gallons more often than every 6 weeks. • Soil Drench Applications at the Time of Transplanting: Do not apply rates greater than 0.75 fluid ounces per 100 gallons more than once every 6 weeks. Do not exceed rates of 0.75 fluid ounces per 100 gallons on foliage plants. • Soil Media Incorporation: Do not exceed 0.13 fluid ounce per cubic yard in medias to be used for bedding plants. Mix enough for current use. • Do not apply more than 2.5 fl oz/1,000 sq ft (0.08 lb ai/1,000 sq ft) or 0.85 gal/A (3.4 lb ai/A) of INTERROGATE Fungicide per application. • Do not apply more than 9 fl oz/1,000 sq ft (0.28 lb ai/1,000 sq ft) or 3.08 gal/A (12.3 lb ai/A) of INTERROGATE Fungicide per year. • Do not apply more than 3.6 applications of INTERROGATE Fungicide per year. • Minimum retreatment interval: 30 days 	

ORNAMENTALS (continued)

CROP	RATE (fluid ounces)	USE INSTRUCTIONS
AZALEAS AND RHODODENDRONS	0.50 to 1.25 fl oz per 100 gallons of water	Soil Drench: For media with a depth of less than 4-inches, apply at a volume of 16.0 fluid ounces per square foot. For media with a depth of 4-inches or more, apply at a volume of 24.0 to 32.0 fluid ounces per square foot. Repeat applications at 2 to 4-month intervals as needed.
	0.60 to 1.25 fl oz per 100 gallons of water	Foliar Spray: Phytophthora shoot blight - Spray to runoff. Repeat at 2 to 3-month intervals as needed. Soil Surface Spray: Apply as broadcast or banded spray in sufficient water to obtain thorough coverage of the root zone. Irrigate with a minimum of 1/2 inch of water if rainfall does not occur within 7 days of application.
	Use Restrictions: <ul style="list-style-type: none"> To minimize potential injury to azaleas do not apply rates greater than 1.25 fluid ounces per 100 gallons more than once every 3 months, and do not exceed a total of 2.5 fluid ounces in 6 months. Use only the lowest specified rate for azalea variety "Coral Bell". Do not apply more than 3.1 fl oz/1,000 sq ft (0.1 lb ai/1,000 sq ft) or 1.06 gal/A (4.2 lb ai/A) of INTERROGATE Fungicide per application. Do not apply more than 5 fl oz/1,000 sq ft (0.16 lb ai/1,000 sq ft) or 1.7 gal/A (6.8 lb ai/A) of INTERROGATE Fungicide per year. Do not apply more than 1.6 applications of INTERROGATE Fungicide per year. Minimum retreatment interval: 60 days. 	
WOODY ORNAMENTALS OTHER THAN AZALEAS <i>Aucuba japonica</i> Arborvitae Boxwood Ceanothus Cotoneaster Dogwood Ficus "Halls" Honeysuckle Ilex <i>Juniperus</i> spp. Photinia <i>Pieris japonica</i> <i>Pinus</i> spp. Pittosporum Rhododendron White Cedar White Pine Yew	0.5 to 2.0 fl oz per 100 gallons of water	Drench: Apply 1.0 pint of solution per square foot. For growth media depth greater than 4-inches, apply 1.5 to 2.0 pints of solution per square foot. Repeat applications at 2 to 3-month intervals, if necessary.
	1.0 to 2.5 fl oz per 1,000 sq ft	Soil Surface Spray: Apply as a broadcast or banded spray in sufficient water to obtain thorough coverage of the plant root zone. After application, irrigate with a minimum of 1/2 inch of water if rainfall does not occur within 7 days.
	Use Restrictions: <ul style="list-style-type: none"> Do not apply to Euonymous or injury may occur. Drench: Do not apply rates of 4.0 fluid ounces per 100 gallons more often than every 10 weeks. Do not apply more than 5 fl oz/1,000 sq ft (0.16 lb ai/1,000 sq ft) or 1.7 gal/A (6.8 lb ai/A) of INTERROGATE Fungicide per application. Do not apply more than 9 fl oz/1,000 sq ft (0.28 lb ai/1,000 sq ft) or 3.08 gal/A (12.3 lb ai/A) of INTERROGATE Fungicide per year. Do not apply more than 1.8 applications of INTERROGATE Fungicide per year. Minimum retreatment interval: 60 days. 	

INTERIOSCAPE AND INDIVIDUAL PLANT USE

In situations where water volumes used are much less than 100 gallons and the area to be treated is small, the following table provides the product rates to make small quantities of the solution. Refer to the plant type for the correct fluid ounces of product to use when utilizing this table.

Soil Drench: Apply enough solution to the soil surface to wet the root area of the plants.

Rate (fluid ounces per 100 gallons)	Amount of INTERROGATE Fungicide to add to water to make the following quantities			
	1 gallon	5 gallons	10 gallons	25 gallons
0.25 fl oz	4 drops	18 drops	37 drops 0.75 ml	1.9 mls. 3/8 tsp.
0.5 fl oz	7 drops	37 drops 0.75 ml	1.5 ml 1/4 tsp	3.7 mls. 3/4 tsp.
1.0 fl oz	15 drops	75 drops 1.5 ml 1/3 tsp.	3.0 ml 1/2 tsp.	7.5 mls 1.5 tsp. 1/2 tbsp.
2.0 fl oz	30 drops	4.5 ml 1 tsp.	6 mls. 1.5 tsp.	15 mls. 3 tsp. 1 Tbsp.

CITRUS IN NURSERIES AND LANDSCAPES (NONBEARING)

For control of citrus foot rot, root rot and trunk canker caused by *Phytophthora* spp., **INTERROGATE Fungicide** can be applied to non-bearing citrus grown in nurseries and landscape plantings. Applications should be made to the soil as a drench or as a banded spray, with initial applications made at the time of planting. Repeat applications can be made at three month intervals during periods of active growth.

RATE	USE INSTRUCTIONS
2.0 – 3.0 fl oz per 100 gallons of water	Soil drench applications: Apply as a drench over the row using a volume of 100 to 250 gallons per 1,000 feet of row. The width of the application should be wide enough to cover the root system of the plants.
1 gallon per acre of treated soil	Soil surface spray applications: Apply as a broadcast or banded surface spray to seedbeds, liners, or bedded stock in sufficient water to obtain thorough coverage. For banded treatments, the treated area should be wide enough to cover the root system of the plants. Application should be followed by a minimum of 1/2 inch of irrigation.

Use Restrictions:

Do not use in greenhouse citrus nursery stock intended for commercial fruit production.

Do not apply more than 9 fl oz (0.28 lb ai) per 1,000 sq ft or 3 gal (12.3 lb ai) per acre per year.

CONIFERS/CHRISTMAS TREES IN NURSERIES AND PLANTATIONS

For control of *Phytophthora* root rot in conifers.

	RATE (pints)	USE INSTRUCTIONS
Seedbeds and Plugs	1.25 pts/A	Apply in a minimum of 50 gallons of water per acre in the Spring and again in the Fall.
2-0 Transplants	2.50 pts/A	Apply in a minimum of 50 gallons of water per acre in the Spring and again in the Fall.

Use Restrictions:

Do not apply more than 5.0 pt (2.5 lb ai) per acre per year.

Plantations

This product will aid in the control of *Phytophthora* root rot when used in conjunction with good cultural practices, but will not overcome poor practices such as planting on flood prone or poor draining sites.

Apply 0.6 to 1.25 gallons of this product in a minimum of 50 gallons of water per acre as a directed soil spray. Do not apply to the foliage. Make applications in the early Spring before active growth begins and again in the Fall before the ground freezes. For best results, apply ½ to 1 inch of irrigation if rain does not occur within 3 days of application.

DECIDUOUS NONBEARING FRUIT AND NUT TREES

This product is effective in the control of *Pythium* root rot and *Phytophthora* root rot, crown rot and collar rot of nonbearing deciduous fruit and nut trees. Apply 3 fluid ounces of this product per 1,000 square feet in sufficient water to obtain thorough coverage of the soil underneath the canopy of the trees. Treat enough area to cover the root zones of the plants. Repeat applications may be made at 3-month intervals as needed during the growing season.

Use Restrictions:

- Do not apply to trees that will bear harvestable fruit or nuts within 12-months of the last application.
- Do not apply more than 8.8 fluid ounces per 1,000 square feet (or 3 gallons per acre) of this product in any one year.

LAWNS AND TURF

This product is effective for the control of *Pythium* blight (cottony blight, grease spot, spot blight, root rot, crown rot) and damping off caused by *Pythium* spp. This product is also effective in controlling yellow tuft (downy mildew) in bluegrass and downy mildew in St. Augustine grass.

This product can be applied to the turf through irrigation systems or as a surface spray. When a rate range and application interval is noted, use the lower rates for the shortest application intervals listed, and higher rates for longer application intervals. For broad spectrum disease control, this product can be tank mixed with other turf fungicides, however, do not mix with other products unless prior use has proven compatibility.

SITE	DISEASES	RATE (fluid ounces)	USE INSTRUCTIONS
Established Lawns and Turf	<i>Pythium</i> Blight Yellow Tuft Downy Mildew	0.5 to 1.0 fl oz per 1,000 sq ft	Apply in 1 to 5 gallons of water per 1,000 square feet as a preventative treatment. Retreat at 10 to 21-day intervals as needed. During conditions favorable to disease development, apply the 1.0 fluid ounce rate on a 14-day schedule.
Newly Seeded Lawns and Turf	<i>Pythium</i> Damping Off <i>Pythium</i> Blight Yellow Tuft Downy Mildew		Apply in 1 to 5 gallons of water per 1000 square feet immediately after seeding and irrigate with ¼ to ½ inch of water. During conditions favorable to disease development, retreat at 7 to 14-day intervals.

- For long term control of *Pythium* in areas when using seed treated with the active ingredient contained in this product, make an application 7 to 10 days after seeding.
- To minimize the potential for resistance, it is recommended that no more than 3 applications of the active ingredient metalaxyl may be made per season. It is also recommended that fungicides of a different chemical class be applied in rotation between applications of this product.

Use Restrictions:

Do not apply more than 9 fl oz (0.28 lb ai) per 1,000 square feet or 3 gallons (12 lb ai) per acre.

SEED TREATMENT

This product is a systemic fungicide seed dressing specifically for control of systemic downy mildews, *Pythium* and *Phytophthora spp.* This product may be applied as a water-based slurry with other registered seed treatment insecticides and fungicides through standard slurry or mist-type commercial seed treatment equipment.

Precautions:

This product is a systemic fungicide having a specific mode of action. This product could be subject to development of resistant strains of fungi. Development of resistance cannot be predicted. Consult with your State Agricultural Experiment Station or Extension Service Specialist for guidance and ways to control any possible Metalaxyl resistant strains of fungi which may occur. **FAILURE TO FOLLOW DIRECTIONS OF THIS LABEL MAY RESULT IN CROP INJURY OR POOR DISEASE CONTROL.**

Restrictions:

DO NOT use with other seed treatment products unless previous experience assures compatibility.

In California: Only for use in commercial seed treating establishments. Not allowed for “on-farm” use.

On-Farm Seed Treatment: DO NOT apply this product through any type of irrigation system.

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 treatment on agricultural establishment at or immediately before planting is within the scope of WPS, while commercial treatment of seeds is not within the scope.

Planter Box Treatment: Apply at the specified rate and premix with the seed directly in the planter box at planting. Place half the amount of seed into the planter box and apply half the required amount of pesticide to the seed. Stir the seed thoroughly with a paddle until the seed is uniformly coated. Place the remaining half of the seed into the planter box and add the remaining half of the pesticide. Again stir the seed with the paddle until all seed is thoroughly coated.

For Commercial Seed Treatment: Seed treated commercially or for sale must be dyed an unnatural color using an EPA approved dye before sale. Federal law requires that bags containing treated seed shall be labeled with the following information:

Tank Mixing: When tank mixing follow the most restrictive label instructions for any tank mix partner. **DO NOT** tank mix with any product that contains a prohibition against tank mixing.

SEED BAG LABELING REQUIREMENTS

Seed commercially treated with this product must be labeled in accordance with all applicable requirements of the Federal Seed Act. The user of this product is responsible for ensuring that the seed bag meets all requirements under the Federal Seed Act.

THE FEDERAL SEED ACT REQUIRES THAT BAGS CONTAINING TREATED SEEDS BE LABELED WITH THE FOLLOWING STATEMENTS:

*This seed has been treated with **INTERROGATE Fungicide**, a fungicide containing Metalaxyl.*

DO NOT use for feed, food, or oil purposes.

THE US ENVIRONMENTAL PROTECTION AGENCY REQUIRES THE FOLLOWING STATEMENTS ON CONTAINERS CONTAINING SEEDS TREATED WITH Metalaxyl (**INTERROGATE Fungicide**):

DO NOT allow children, pets, or livestock to have access to treated seeds.

Wear long pants, long-sleeved shirt, shoes plus socks, and chemical-resistant gloves when opening this bag or handling (e.g., loading, pouring) treated seed.

Treated seed exposed on soil surfaces may be hazardous to wildlife. Cover or collect treated seed spilled during loading and planting.

DO NOT contaminate bodies of water when disposing of planting equipment washwater. If excess treated seed remains after planting, dispose of it by burying away from bodies of water.

Store treated seed in cool, dry conditions.

Dispose of treated seed packaging in accordance with local requirements.

Excess treated seed may be used for ethanol production only if (1) by-products are not used for livestock feed and (2) no measurable residues of pesticides remain in the ethanol by-products that are used in agronomic practice.

DO NOT use the same auger for treating seed that will handle commercial or feed grains.

DO NOT plant any crop not listed on this label within 30 days of planting **INTERROGATE Fungicide** treated seed.

DO NOT harvest mustard greens. Rape greens grown and harvested from **INTERROGATE Fungicide** treated seed must not be used for human and feed consumption. Rapeseed grown and harvested from **INTERROGATE Fungicide** treated seed is only for industrial uses and cannot be used for edible oil or any other human/feed consumption.

DO NOT use Metalaxyl for control of *Pythium* in water-seeded rice.

After treated seed has been planted, **DO NOT** enter or allow worker entry into areas planted with treated seeds during the restricted-entry interval (REI) of 24 hours. **EXCEPTION:** Workers may enter these areas without restriction if there will be no worker contact with the soil/media subsurface.

DO NOT store leftover treated seed where there is a chance of it becoming mixed with untreated seed.

Seed treated with this product must be visually identifiable from untreated seed by the use of an approved colorant or dye to prevent accidental use of treated seed as food for humans or feed for animals. Refer to 21 CFR, Part 2.25. Any colorant or dye added to treated seed must be cleared for use in accordance with 40 CFR, Part 153.155(c).

DOMESTIC USE

CROP	DISEASE	RATE (Fluid Ounces per 100 Pounds of Seed)
Brassica Leafy Vegetables Broccoli (Chinese and raab), Brussels sprout, Cabbage (Chinese bok choy, Chinese napa and mustard), Cauliflower, Cavalo broccoli, Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard Spinach, and Rape greens)	<i>Pythium</i> damping-off control	0.50
Beets, Garden & Sugarbeets	<i>Pythium</i> damping-off control	0.50
Canola* Mustard Seed* Rapeseed*	<i>Pythium</i> damping-off control	0.20 - 0.30
	Restriction: DO NOT harvest mustard greens. Rape greens grown and harvested from INTERROGATE Fungicide treated seed must not be used for human and feed consumption. Rapeseed grown and harvested from INTERROGATE Fungicide treated seed is only for industrial uses and cannot be used for edible oil or any other human/feed consumption.	
Carrots*	<i>Pythium</i> damping-off control	0.50
Cotton	<i>Pythium</i> seed rot and damping-off control	0.50 - 1.00
Cucurbit Vegetables Chayote (fruit), Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Gourd (edible) (hyotan, cucuzza, hechima, Chinese okra), <i>Momordica</i> spp. (balsam apple, balsam pear, bittermelon, Chinese cucumber), Muskmelon (hybrids and/or varieties of <i>Cucumis melo</i> (true cantaloupe, cantaloupe,	<i>Pythium</i> damping-off control	0.50

casaba, Santa Claus melon, crenshaw melon, honeydew melon, honey balls, Persian melon, golden pershaw melon, mango melon, pineapple melon, snake melon), Watermelon (hybrids and/or varieties of <i>Citrullus</i> spp.), Pumpkin, Squash (summer, winter including butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash).		
Forage Grasses Grasses grown for hay, grazing or silage, Corn (fodder or silage), Sorghum (hay or silage), and Small grain grown for hay, grazing or silage.	<i>Pythium</i> damping-off control	0.50
Forage Legumes Alfalfa, Beans (for forage), Clover, Cowpeas (for forage), Cowpea hay, Lespedeza, Peanuts (for forage), Peanut hay, Peas (for forage), Pea vine hay, Soybeans (for forage), Soybean hay, Trefoil, Velvet beans (for forage) and Vetch.	<i>Pythium</i> damping-off and early season <i>Phytophthora</i> control	0.50 - 1.00

CROP	DISEASE	RATE (Fluid Ounces per 100 Pounds of Seed)
Fruiting Vegetables Eggplant, Ground cherry (<i>Physalis</i> spp.), Pepino, Pepper (bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), Tomatillo, Tomato.	<i>Pythium</i> damping-off control	0.50
Grain Crops Barley, Buckwheat, Corn (field corn, sweet corn and popcorn), Millet, Milo, Oats, Rye, Triticale, and Wheat.	<i>Pythium</i> damping-off control	0.50
	Systemic downy mildew control of sweet corn	1.00

Use Rate Conversions for Field Corn

PRODUCT FLUID OUNCES/			MG AI/SEED
100 lb seed†	1000 seeds	80,000 seed count	
0.50	0.0028	0.224	0.040
1.00	0.0056	0.448	0.080

This product contains 14,195.5 mg metalaxyl (AI)/fluid ounce.

† Based on standard number of 1786 seeds/lb (100,000 seeds/56 lb bu)

NOTE: To maintain mg ai/seed, adjust fluid ounces/100 lb in proportion to the actual seeds/lb compared to the standard number of seeds/lb for that crop. For example if there are 1600 corn seeds/lb and the targeted rate is 0.040 mg ai/seed at a non-adjusted rate of 0.50 fl. oz/100 lb of seed, use: $(1600 \div 1786) \times 0.50 = 0.45$ fl. oz/100 lb of seed.

Leafy Vegetables Amaranth (Chinese spinach), Cardoon, Celery, Celery (Chinese), Celtuce, Chervil, Chrysanthemum (edible-leaved, garland), Corn salad, Cress (garden, upland), Dandelion, Dock (sorrel), Endive (escarole), Fennel (Florence), Lettuce (head and leaf), Orach, Parsley, Purslane (garden, winter), Radicchio (red chicory), Rhubarb, Spinach (including New Zealand and vine), Swiss chard.	<i>Pythium</i> damping-off control	0.50
	Restriction: DO NOT apply this product to spinach which is destined to be grown in the greenhouse. Containers or bags containing <i>INTERROGATE Fungicide</i> treated spinach seed must be labeled with this restriction.	
Legume Vegetables (except soybeans) Bean (<i>Lupinus</i> spp.) [grain lupin, sweet lupin, white	<i>Pythium</i> damping-off control	0.50

lupin, white sweet lupin]; Bean (<i>Phaseolus</i> spp.) [field bean, kidney bean, lima bean (succulent or dry), navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean]; Bean (<i>Vigna</i> spp.) [adzuki bean, asparagus bean, blackeyed pea (succulent or dry), catjang, Chinese longbean, cowpea (succulent or dry), Crowder pea, moth bean (succulent or dry), mung bean, rice bean, southern pea (succulent or dry), urd bean, yardlong bean]; Broad bean (fava) (succulent or dry); Chickpea (garbanzo bean); Guar; Jackbean; Lablab bean (hyacinth); Lentil; Pea (<i>Pisum</i> spp.) [dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea]; Pigeon pea (succulent or dry); Sword bean.	Early season <i>Phytophthora</i> control	0.50
	Control of <i>Pythium</i> damping-off and systemic downy mildew of peas	1.00

CROP	DISEASE	RATE (Fluid Ounces per 100 Pounds of Seed)
Onions (dry bulb and green)	<i>Pythium</i> damping-off control	0.50
Peanuts*	<i>Pythium</i> seed rot and damping-off control	0.50
Rice*	<i>Pythium</i> damping-off control	0.50 - 1.00
	Restriction: If using INTERROGATE Fungicide treated rice do not use Metalaxyl or mefenoxam for control of <i>Pythium</i> in water-seeded rice. Containers or bags containing INTERROGATE Fungicide treated rice seed must be labeled with this restriction.	
Root and Tuber Vegetables (except potato) Arracacha, Arrowroot, Artichoke (Chinese, Jerusalem), Beet (garden, sugar), Burdock (edible), Canna (edible), Carrot, Cassava (bitter and sweet), Celery, Chayote (root), Chervil (turnip-rooted), Chicory, Chufa, Dasheen (taro), Ginger, Ginseng, Horseradish, Leren, Parsley (turnip-rooted), Parsnip, Radish (including oriental), Rutabaga, Salsify (black and Spanish), Skirret, Sweet potato, Tanier, Turmeric, Turnip, Yam bean, Yam (true).	<i>Pythium</i> damping-off control	0.50
Sorghum	<i>Pythium</i> damping-off control	0.25 - 0.50
	Systemic downy mildew (races susceptible to chemical control)	0.50 - 2.00
	Apply 0.50 - 1.00 fluid ounces of this product on cultivars which possess sorghum downy mildew resistance. To those cultivars which do not possess resistance to a particular race of sorghum downy mildew in heavily infected areas with recent severe history, apply 1.00 - 2.00 fluid ounces of this product. Only high quality sorghum seed (90% germination and above) should be treated with this product.	

CROP	DISEASE	RATE (Fluid Ounces per 100 Pounds of Seed)	
Soybeans	<i>Pythium</i> damping-off control and early season <i>Phytophthora</i> control	0.50 - 1.00	
Use Rate Conversions for Soybeans			
PRODUCT FLUID OUNCES/		MG AI/SEED	
100 lb seed†	1000 seeds		80,000 seed count
0.50	0.0017	0.136	0.024
1.00	0.0034	0.272	0.048
This product contains 14,195.5 mg metalaxyl (AI)/fluid ounce.			
† Based on standard number of 3000 seeds/lb (150,000 seeds/50 lb bu)			
NOTE: To maintain mg ai/seed, adjust fluid ounces/100 lb in proportion to the actual seeds/lb compared to the standard number of seeds/lb for that crop. For example if there are 2800 soybean seeds/lb and the targeted rate is 0.024 mg ai/seed at a non adjusted rate of 0.50 fl. oz/100 lb of seed, use: $(2800 \div 3000) \times 0.50 = 0.467$ fl. oz/100 lb of seed.			
Spinach*	<i>Pythium</i> damping-off control and early season <i>Phytophthora</i> control	0.50 - 1.00	
	Restriction: DO NOT apply this product to spinach which is destined to be grown in the greenhouse. Containers or bags containing INTERROGATE Fungicide treated spinach seed must be labeled with this restriction.		
Sunflowers	Systemic downy mildew control	1.00 - 2.00	
Turf Grasses Golf Courses, Home Lawns, Reclamation and Erosion Control Projects	<i>Pythium</i> damping-off control	1.00	

* Not registered for use in California

FOR EXPORT USE ONLY

For treatment of the following seed for export to countries requiring treatment with Metalaxyl before importation.

CROP	DISEASE	RATE (Fluid Ounces per 100 Pounds of Seed)
Brassica (Cole) Leafy Vegetables	<i>Pythium</i> damping-off control	0.50 - 1.00
Canola	<i>Pythium</i> damping-off control	0.30 - 1.10 (20 - 66 ml per 100 Kg of seed)
Corn	<i>Pythium</i> damping-off control	0.50 - 1.00
	Systemic downy mildew control	2.00
Cucurbit Vegetables	<i>Pythium</i> damping-off control	0.50
Fruiting Vegetables	<i>Pythium</i> damping-off control	0.50 - 1.00
Leafy Vegetables	<i>Pythium</i> damping-off control	0.50 - 1.00
Millet	<i>Pythium</i> damping-off control	0.50 - 1.00
	Systemic downy mildew control	1.70
Onions	<i>Pythium</i> damping-off control	0.50 - 1.00
Peas	<i>Pythium</i> damping-off control and early season <i>Phytophthora</i> control	2.30
Root and Tuber Vegetables (except potato)	<i>Pythium</i> damping-off control	0.50 - 1.00
	Restriction: DO NOT apply this product to potatoes.	
Sorghum	<i>Pythium</i> damping-off control	0.50 - 1.00
	Systemic downy mildew control	3.50
Sunflower	Systemic downy mildew control	6.00

Seed treated in accordance with the export use pattern must be labeled as follows:

**FOR EXPORT ONLY
NOT FOR DOMESTIC SALES OR USE**

DIRECTIONS FOR USE AT REDUCED RATES IN COMBINATION WITH OTHER FUNGICIDES

This product is a systemic fungicide seed dressing which may be applied in combination with other EPA-registered fungicides to aid in control of *Pythium*. This product may be applied as a water-based slurry through standard slurry or mist-type commercial seed treatment equipment.

CROP	DISEASE	RATE (Fluid Ounces per 100 Pounds of Seed)
Barley, Corn (field), Oats, Rye and Wheat	Aid in control of seed decay and damping-off caused by <i>Pythium</i>	0.07 - 0.25
Beans (field, kidney, navy and pinto), Lentils, Peas and Soybeans		
Peanuts*		
Rice*		
Sunflowers		

* Not registered for use in California

NOTE: Apply only in combination with EPA registered rates of broad-spectrum seed treatment fungicides.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store at temperatures above 40°F. Crystals may form at lower storage temperatures. If this occurs, place the product in a warm room (68°F or above) and roll or shake the container at frequent intervals until all crystals are dissolved.

PESTICIDE DISPOSAL: Open dumping is prohibited. Wastes resulting from the use of this product are acutely toxic. Improper disposal of unused pesticide, spray mixture or rinsate is a violation of Federal law. Pesticide, spray mixture or rinsate that cannot be used according to the label instruction must be disposed of according to Federal, state or local procedures. For guidance in proper disposal methods, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office.

CONTAINER DISPOSAL:

Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Refillable Container: Refill this container with pesticide only. Do not reuse this container for any other purpose. Close all openings and replace all caps.

IMPORTANT INFORMATION

READ BEFORE USING PRODUCT

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product reflect the opinion of experts based on field use and tests, and must be followed carefully. It is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of UPL NA Inc or Seller. Handling, storage, and use of the product by Buyer or User are beyond the control of UPL NA Inc and Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold UPL NA Inc and Seller harmless for any claims relating to such factors.

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