SWINTED STATES - CONSTRUCTION	U.S. ENVIRONMENTAL PROTECTION AGENCY Office of Pesticide Programs Registration Division (7505P) 1200 Pennsylvania Ave., N.W. Washington, D.C. 20460	EPA Reg. Number: 55146-109	Date of Issuance: MAR 1 6 200
, N	NOTICE OF PESTICIDE: <u>X</u> Registration Reregistration	Term of Issuance: Conditional	- h ·
	(under FIFRA, as amended)	Name of Pesticide Product: Ultra Flourish [®] II 4 SC Fungicide	
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MAR 1 6 2009

- 2. Submit or cite the following studies within 18 months of the date of this registration:
 - a. Storage Stability OPPTS 830.6317
 - b. Corrosion Characteristics OPPTS 830.6320
- 3. Make the following changes to the label:
 - a. Change the product registration number to "EPA Reg. No. 55146-109"
 - b. On page 3 add the following under the heading GENERAL USE PRECAUTIONS: "This product is not to be used in foliar applications unless specified on this label or in solutions to dip plants. This product is for field use only and may not be used on transplant trays, greenhouses, lath houses, float houses, hydroponic production, or in bedding plant structures."
 - c. For each crop that has application rates expressed in other measurements in addition to pints, revise the column header "RATE (Pints per acre)" to read "RATE (Pints per acre unless stated otherwise".
 - d. On page 8 in the table for **BLUEBERRIES**, change the top box in column 3 from "0.5 per 1,000 linear feet (7.25 per acre broadcast basis)" to "0.5 pints per 1,000 linear feet (7.5 pints per acre broadcast basis"
 - e. On page 9 and 10 in the table for CITRUS:
 - 1. In column 1, delete Calamodin, Chironja, Pummelo, and Tangor.
 - 2. In column 3, delete "and TX" (four instances on page 9 and one instance on page 10.
 - f. On page 11 in the table for **COLE CROPS**:
 - 1. Delete Broccoli Raab (rapini), Brussels sprouts, Cavalo Broccoli, Collards, Kale, Kohlrabi, Mizuna, Mustard Greens, Mustard Spinach, Rape Greens, and "All hybrids and varieties of these".
 - 2. In the first line of the notes at the bottom of the table change "...control in greenhouse of field grown...." to "...control in greenhouse crops or field grown....".
 - 3. Delete the foliar application directions and rate.
 - g. On page 11 in the table for **COTTON**, change the second box in column 3 from "2 to 4" to "1 to 2".
 - h. On page 12 in the table for CUCURBIT VEGETABLES:
 - 1. Delete Chayote, balsam apple, Chinese cucumber, cantaloupe, pineapple, Santa Claus, snake melons.
 - 2. Change "Mango" to "Mango melon".
 - 3. Delete the soil directed spray application directions and rate.

- 4. Revise the first bullet to read "Do not use this product for disease control in greenhouse crops or on field-grown vegetable bedding plants.
- i. On page 13, delete the table for FRUITING VEGETABLES.
- j. On page 14 in the table for **LEAFY VEGETABLES**, delete Amaranth; Argula; Cardoon; Chinese Celery; Celtuce; Chervil; Chrysanthemum, edible-leaved; Chrysanthemum, garland; Corn salad; Cress, garden; dandelion; Dock (Sorrel); and Orach.
- k. On page 15 in the table for LEAFY VEGETABLES, delete Purslane, garden; Purslane, winter; Radicchio (red chicory); Spinach, New Zealand; and Spinach, vine.
- 1. On page 15, remove the table for Lettuce.
- m. On page 15, delete the table for SPINACH ONLY.
- n. On page 15, delete the table for LETTUCE HEAD AND LEAF.
- o. On page 16 in the table for **LEGUME VEGETABLES**, delete tepary; adzuki; asparagus; Chinese longbean; moth; rice; urd; yardlong; Guar; Jackbean, Lablab bean (hyacinth bean); dwarf; edible pod; English; green; snow; Pigeon pea; Sword bean.
- p. On page 18 in the bottom notes to the table for **POTATOES**, add another bullet and the following statement: "Do not use Ultra Flourish II 4 SC fungicide for disease control in greenhouse or field-grown vegetable bedding plants."
- q. On page 18 in the table for **ROOT AND TUBER VEGETABLES**, delete Arracacha; Arrowroot; "Chinese and"; Burdock, edible; Canna, edible; Celeriac (celery root); Chayote (root); Chervil, turnip-rooted; Chufa; Leren; Parsley, turnip rooted. Change "Beet, garden" to "Beet, table".
- r. On page 19 in the table for **ROOT AND TUBER VEGETABLES**, delete Radish, oriental (daikon; "(oysterplant, black, Spanish)"; Skirret; Turmeric; Yambean (jicama, manioc pea).
- s. On page 19 in the last entry in the table for **SOYBEANS**, change "... have some degree to the races of...." to "... have some degree of resistance to the species of...."
- t. On page 20 in the table for **STONE FRUITS**, delete Plumcot; Hybrids or cultivars of these *(note: not on cited label)*
- u. On page 20 in the table for **STONE FRUITS**, **ALMOND WALNUTS**, revise "In CA…trees within 45 days of planting" to "In CA…trees within 90 days of planting."

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v. On page 21 in the table for **TOBACCO**:

1. Add the following sentence below the table in the fourth row of the section of Black Shank: "In PA – Do not use Ultra Flourish II 4 SC fungicide for black shank control".

2. Revise the next to last bullet to read "Do not use this product for disease control in greenhouse or field-grown vegetable bedding plants.".

- w. On page 24 in the table for **FLOWERS**, delete the rate and application instructions for "soil drench applications at the time of transplanting" and "soil media incorporation".
- x. On page 23 in the table for **TROPICAL FRUIT**, delete "**TROPICAL FRUIT**" and make the table header **PAPAYA**
- 4. Submit one copy of the revised final printed label for the record before the product is released for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely,

Mary L. Waller

Mary L. Waller Product Manager (21) Fungicide Branch Registration Division (7505P)

Enclosure:

Label stamped "Accepted with Comments"

ULTRA FLOURISH[®] II 4 SC Fungicide

ACTIVE INGREDIENT:	
Metalaxyl: N-(2,6-dimethylphenyl)-N-(methoxyacetyl) alanine methyl ester	44.08%
OTHER INGREDIENTS:	<u>55.92%</u>
TOTAL:	100.00%

Contains 4.0 pounds Metalaxyl per gallon (420 grams per litter).

KEEP OUT OF REACH OF CHILDREN CAUTION / PRECAUCION

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

SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300 For Medical Emergencies Only, Call (877) 325-1840

EPA REG. NO. 55146-RNO EPA EST. NO.			Manufactur NUFARM AMERICA AGT Di 150 Harvester Burr Ridge, IL	ed For S INC. ivision r Drive 60527	narisi 1917
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055146-00RNO.20090316.EF NUP-07270	A.New		MAR 1 6 2009 Under the Federal Insecticide, Fundicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 5	51-16-10	³ 0505 ³ 5055 5055 9

	FIRST AID
IF SWALLOWED	 Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.
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.
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 INHALED	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.

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

Harmful if swallowed. Causes moderate eve irritation. Avoid contact with eves or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- · Long-sleeved shirt and long pants,
- · Shoes and socks,
- . Chemical-resistant gloves such as a barrier laminate or nitrile rubber or neoprene rubber or Viton.

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. cccc

ENVIRONMENTAL HAZARDS

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с с 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 0 or rinsate. ö 000000

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. сc 00000 0 00000

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

0000 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 evewear.

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 areenhouses.

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

GENERAL USE PRECAUTIONS

This product is a systemic fungicide for use on selected crops to control certain disease caused by members of the Oomvcete class of fungi. Other fungicides must be used to control diseases incited by other classes of fungi. This product is not to be used in foliar applications, unless specified on this label.

Maximum usage when applying both metalaxyl and mefenoxam containing products to the same crop within the same season: Do not apply more than the maximum seasonal total for the active ingredient as stated on the label of the product containing the lowest seasonal total on that crop.

NOTE: This product is a systemic fungicide having a specific mode of action and could be subject to development of insensitive strains of fungi. Development of insensitivity cannot be predicted. Therefore, Nufarm cannot assume liability for crop damage resulting from insensitive strains of fungi. If treatment is not effective following the use of this product, an insensitive strain of fungi may be present. If the treatment is ineffective due to the presence of a metalaxyl insensitive strain of fungi, neither this product nor any other fungicide with similar action will effectively control that disease. Consideration should then be given to the prompt use of other types of suitable fungicides. Do not make foliar applications to field grown tobacco, or other crops, unless specified since this practice may encourage more rapid development of insensitivity. Consult with your State Agricultural Experiment Station or Extension Service Specialist for guidance on your particular crop and disease control situation. Where rate ranges are specified on this label, use the higher rate when heavy disease pressure is expected and the lower rate when disease pressure is expected to be light unless otherwise noted.

To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, as crop injury may result.

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ROTATION (PLANTBACK) RESTRICTIONS

Do not plant any crop that is not registered for use with metalaxyl in metalaxyl-treated soil for a period of 12 months unless a shorter interval is specified on the following list.

ROTATION CROP	PLANTING TIME FROM LAST APPLICATION (Days)
Alfalfa (including birdsfoot trefoil), Almonds, Apples, Asparagus, Avocados	
Blueberries	
Citrus, Clover, Cole Crops, Cotton, Cranberries, Cucurbit Vegetables.	
Deciduous Fruits and Nuts*	
Eggplant	
Fruiting Vegetables	
Garlic, Ginseng, Grapes, Grasses**	
Hops	0
Leafy Vegetables (excluding Brassica)	U
Legume Vegetables (beans and peas — succulent and dried)	
Onions (dry bulb, green, and seed)	1
Papaya, Peanuts, Peppers, Pineapples, Potatoes	
Raspberries, Root and Tuber Vegetables	
Soybeans, Spinach, Stone Fruits, Strawberries, Sugar Beets	
Tobacco, Tomatoes	
Walnuts	
Cereal Grains (other than Corn)	14
Corn	9 months
Crops Not Intended for Food or Feed	0
All Other Crops Intended for Food or Feed	12 months

* These crops and other perennial crops may be planted immediately following last application of this product provided they will not bear harvestable fruit within 12 months.

** Any grass, Gramineae family (either green or cured), except the following. Do not apply to sugarcane; to any of the following that will be fed to or grazed by livestock: barley, buckwheat, corn, millet (pearl or proso), oats, popcorn, rice, rye, sorghum, teosinte, triticale, wheat, or wild rice; or to any enclosed pasture grasses or grasses grown for hay or silage, such as bermudagrass, bluegrass, bromegrass, or fescue.

Replanting

6666 6 If replanting is necessary, additional applications of this product may be made, provided that the total amount of metalaxyi applied does not exceed the maximum allowed for the specific crop.

MIXING PROCEDURES: Add 1/4 to 1/2 of the required amount of water to the spray tank, add the proper amount of this product, then add the rest of the water. When tank mixing other products with this product, follow the proper sequence of adding products to the spray tank. Wettable powders or water dispersible granules should be added to the water in the tank first, dollowed by flowable products, with emusifiable concentrates, such as this product, added last. Provide sufficient agitation during mixing and application to ° ° ° maintain a uniform emulsion. 0000

This product is generally compatible with most commonly used WP's, SC's (flowables) and EC's. 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.

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For banded applications, the area actually is the area covered by the band, not total cropland area planted. 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:

Band width in inches	х	broadcast	=	amount needed
Row spacing in inches		rate per acre		per acre of field

GENERAL APPLICATION INSTRUCTIONS

Apply this product by ground or air in sufficient water or liquid fertilizer to provide uniform coverage of the soil surface. Apply in a minimum of 20 gallons per acre for ground applications and 5 gallons per acre by air. Refer to the specific crop directions for use for application use instructions.

BEFORE TANK MIXING THIS PRODUCT WITH OTHER REGISTERED PRODUCTS FOR ANY USE ON THIS LABEL, READ THE LABEL OF THE TANK MIX PARTNER TO BE CERTAIN IT IS LABELED FOR USE ON THE PARTICULAR CROP AND THAT USE PATTERNS ARE COMPATIBLE WITH THOSE OF THIS PRODUCT.

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

APPLICATION THROUGH IRRIGATION SYSTEM

This product, alone or in combination with other pesticides, which are registered for application through irrigation systems. Apply this product only though 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.

NOTE: 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. Chérnigation systems connected to public water systems must contain a functional reduced-pressure zone backflow preventer (FIPE)^o or the functional equivalent in the water supply line, upstream from the point of pesticide introduction. As an option to the RPE, the water from the public supply system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a camplete 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 value to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must contain a functional a functional normally closed, so the noise of the value 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 $\hat{p}_{un}^{c}\hat{p}_{v}^{c}\hat{p}_{v}$ 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. diaphragin pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a^{c} 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 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 this 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 this 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 the 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 the 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.

CROP	DISEASES	RATE (Pints per Acre)	USE INSTRUCTIONS
ALFALFA (Including birdsfoot trefoil)	Damping-of (Pythium spp.) Root rot (Phytophthora spp.)	0.5 to 1	Stand Establishment: Apply as a broadcast surface spray at planting in a minimum of 20 gallons of water. If inter-seeding alfalfa into existing stands for renovation, apply 0.5 pint per acre as a broadcast spray at planting. In a minimum of 20 gallons of water. If alfalfa seed was previously treated with a metalaxyl or metenoxam seed treatment product, use this product at 0.5 pint per acre at planting. Use the higher rate (1 pint per acre) cin careas where disease pressure 5 State of be heavy.
	Do not feed green forage or c	ut hay for 60 d	ays following application: 0 c c c c

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CROP	DISEASES	RATE (Pints per Acre)			
APPLES (Bearing and Nonbearing Trees)	Crown, Collar and Root rot (Phytophthora spp.)	1 Gallon (3 fluid ounces per 1,000 square feet)	Soil Spray (Broadcast broadcast spray in su thorough coverage. Trea area under the tree ca sprayed row. Soil surfac will not be effective unti into the root zone b Application should be ma growth starts and in th before the ground freeze	or Banded): Apply as a fficient water to obtain ted area is based on the nopy or the area of the e sprays of this product I, the fungicide is moved y rainfall or irrigation. ade in early spring before he fall after harvest but is.	
		1	Drench: Mix in 100 gallo the trunk of each tree. made in early spring be the fall after harvest freezes. On new plan application until 2 weeks	ns of water. Apply around Applications should be fore growth starts and in but before the ground ntings, delay the first after planting.	
			Trunk Diameter 12 Inches Above Soil Line	Pints of Diluted Mixture Per Tree	
				<1 1 to 3 3 to 5 >5	1 2 3 4
	 Do not dip roots of trees in or Use of this product will aid in or root stocks that are not toleran Applications of this product sho orchard favorable for disease moderate to severe disease sy Do not graze or feed cover crooper statements 	spray bare roo control when u it to the diseas ould be made e developmen imptoms. ips in treated o	Its with solutions containing this product. Ised in conjunction with good cultural practice se. before symptoms appear especially in areas it. This product will not revitalize trees sh		
ASPARAGUS	Crown rot Spear rot (Phytophthora spn.)	2	Apply as a broadcast sp gallons of water over the	pray in a minimum of 10 beds.	
	η προμητική σρογ		Cutting Beds: Apply 30 cutting. For additional application just before th	0 to 60 days before first control, make another e beginning of harvest.	
			New Plantings: Apply after planting seedlings or after covering one year old crowns.		
	Do not apply this product within one day of harvest.				

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CROP	DISEASES	RATE (Pints per Acre)	USE INSTRUCTIONS		
AVOCADOS	Root rot (Phytophthora spp.)	0.5 fluid ounces)	Sleeve Drench: Mix with 18 gallons of water the time of transplanting, drench the roots ins the sleeve with 1 quart of diluted mixture per t The sleeve drench will not replace the soil surf applications for long-term control of root rot. Drip Irrigation: Apply the specified amoun product, as per the table below, to the soil dire under the drip emitter at each tree. If there is m than one emitter per tree, distribute the t amount of product needed among the emitter		
		1 to 2 fluid ounces per 1,000 gallons (3.75 -7.5 ppm ai)			
			Injection (Sprinkler or this product into the i irrigation. If this produc irrigation, use the table much product should be water. If this product is to than every 3 months, ac more than the specified each 3 month period.	Drip Irrigation): Inject rrigation water at each t is not applied at each below to determine how injected into the irrigation be used more frequently ljust the rates so that no amount is applied during	
			Diameter of Tree Canopy (Feet)	Amount of Product per 10 Trees per 3 Months (fluid ounces)	
	· · ·		2 5 10 15 or wider	0.25 - 0.5 1.5 - 3 6.5 - 13 14.5 - 29	
	 For best results, use this produ For new plantings, the use of P Mature trees in moderate to ac Do not apply more than 3 gallor Do not make an application with the second secon	uct as soon as hytophthora-re dvanced stage ons per acre o thin 28 days o	soil test indicate the pres sistant rot stocks with this s of decline cannot be cur f this product per year. f harvest.	ence of <i>Phytophthora</i> . product is recommended. ed with this product.	
BLUEBERRIES	Root rot (Phytophthora spp.)	0.5 per 1,000 linear feet (7.25 per acre broadcast basis)	Established Plantings: over the row before the spring. One additional ap coincide with a period fa	Apply in a 3 foot band plants start growth in the plication may be made to vorable for rot.	
		1 gallon	Allon New Plantings: Apply as a broadca at or after the time of planting. One of applications should be made to of periods of most favorable for root rot For banded applications, an 18 inch to row. Use the formula in the General section of the label to calculate needed per acre.		
			Do not apply more than 1.8 gallons broadcast during the 12 months be harvestable fruit.		
	 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. This product may be applied the day of harvest. Do not apply more than 7.2 pints per acre of this product per year. 			e disease problems. rot symptoms.	

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CROP	DISEASES	RATE (Pints per Acre)	USE INSTRUCTIONS	
CITRUS Including: Calamodin Chironja Citrus citron Grapefruits	Brown Rot Citrus foot rot Root rot Trunk Cankers <i>(Phytophthora spp.)</i>	NURSERIES: (AZ, CA, FL, PR, and TX only): Make first applications at the time of planting. Make 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. Do not apply solutions of this product to bare roots.		
Kumquats Lemons Limes Mandarin Oranges Pummelo Tangelos		2 to 3 fluid ounces	Soil Drench: Apply per 100 gallons of water 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.	
Tangerines Tangor and Hybrids of These		2 to 4 quarts	Soil Surface Spray: Apply per treated acre 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.	
		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.		
		2 to 3 fluid ounces	Water Ring Drench: Mix per 100 gallons of water. Apply 5 gallons of the mix around the base of each tree within the watering ring.	
		2 to 4 quarts	Soil Surface 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.	
		2 quarts	Soil Surface 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.	
		ESTABLISHE	ED PLANTING:	
		1 to 4 quarts	Soil Application (FL, PR, and TX only): Apply 1 quart 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 dos-	

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CROP	DISEASES	RATE (Pints per Acre)	US		NS
CITRUS (Continued)	Brown Rot	ESTABLISH	ED PLANTING:		
ncluding:Citrus foot rotCalamodinRoot rotChironjaTrunk CankersCitrus citron(Phytophthora spp.)GrapefruitsKumquatsLemonsLimesMandarinOrangesPummeloTangelosTangerinesTangerines	1 to 4 quarts	Soil Surface Sp results begin ap flush period. On per year can b coincide with flu below to determ size and the nur applications bas quarts of per p are planned and cations are pla provide uniform irrigation water.	pray (AZ and CA pplications during ne or two additions e made a 3 mo shes of root grow hine the proper ra- mber of applications and on broadcast roduct acre when d 6 quarts per ac- anned. Apply suf n coverage or	only): For best the Spring root- onal applications onth intervals to th. Use the table the based on the ons per year. For rates, use 2 to 4 in 3 applications re when 2 appli- ficient water to apply through	
and Hybrids of These			Diameter of Tree Canopy	Fluid Ounces Ten 1	of Product per Trees
			(reel	2 Applications per year	3 Applications per Year
			5 10 15 20	0.75 3.8 7.5 15	0.5 2.5 5 10
	Gummosis	2 quarts	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.		
		1 quart	Trunk Spray (F and spray the su spray to thoroug 3 times per year	L only): Mix in 3 urface of the trunh phy wet the cank r.	gallons of water ks using enough ers. Apply up to
	 Use this product in combination Do not use on highly susceptibe Do not apply more than 3 gallor Do not use this product for disered when nematodes are a problementation Do not make trunk and soil approximation 	ion with good resistant varieties and cultural practices. tible sweet orange rootstock in Florida. Illons of this product per acre per year. isease control in greenhouse nurseries. blem, best results can be achieved if an effective EPA-registered ation or in sequence with this product. applications to the same tree.			
CLOVER	Damping off (Pythium spp.) Root rots (Phytophthora spp.)	0.5 to 1	Soil Spray (bro surface spray a gallons of water with a metalaxy product, use 0.5	badcast): Apply at planting in a r. If seed was pro- l or mefenoxam i pint per acre rat	as a broadcast minimum of 20 eviously treated seed treatment e at planting.
	Do not feed green forage or cut hay for 90 days following application.				

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СКОР	DISEASES	RATE (Pints per Acre)			
COLE CROPS Including: Broccoli Broccoli, Chinese (gai lon) Broccoli Raab (rapini) Brussels sprouts Cabbage Cabbage, Chinese	Basal stem rot (Phytophthora spp.)		Preplant Incorporated Application: Apply as a broadcast soil application in sufficient 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 pint per acre. For banded application, a 7 inch band is recommended. Use the formula in the General Instructions section of this label to calculate the amount of this product needed per acre for the band width actually used.		
(bok choy and napa) Cauliflower Cavalo Broccoli Collards Kale Kohlrabi Mizuna Mustard Greens Mustard Spinach Rape Greens All hybrids and varieties of these			Surface Application: Apply at planting in sufficient water or liquid fertilizer to provide uniform coverage. For banded application, a 7 inch band is recommended. Use the formula in the General Instructions section of this label to calculate the amount of this product needed per acre for the band width actually used. If natural rainfall is not expected before the seeds start germinating, this product should be incorporated mechanically before planting with 0.5 to 1 inch irrigation.		
	Downy Mildew (Perenospora parasitica)	0.25 to 1.0	Foliar: Apply 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.		
	 Do not use this product for dise Do not dip plants in solutions of Do not use this product as a tr This product may be tank-mixed or wirestem/blackrot. Do not apply for downy mildew Do not apply within 7 days of the Do not apply more than 4 pints as a foliar spray. 	ase control in (containing this ansplant wate d with a compo r if mildew is a narvest. per acre per ye	greenhouse of field grown vegetable bedding plants. product or crop injury may occur. r treatment. rund to control club root (<i>Plasmodiophora brassicae</i>) lready established. ear for soil applications and 2 pints per acre per year		
COTTON	Seed and Root Rots (Pythium spp.)	0.125 to 0.25	In-furrow: Apply per 13,000 linear feet of row (0.15 to 0.30 fluid ounces per 1,000 linear feet) 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.		
	Pythium and Rhizoctonia		When Rhizoctonia is present apply this product in combination with a product labeled for the control of that pest.		
	Seedling Diseases Seed Rots (Phytophthora spp.)	2 to 4	At Planting: Apply an in-furrow spray per 13,000 linear feet of row (0.15 to 0.3 fluid ounces per 1,000 linear feet) in 5 to 15 gallons of water or liquid fert- ilizer. Mount spray nozzles so the spray is directed into the furrow over the seed and adjacent soils just before the seeds are covered.		
			I his product may be combined with other labeled fungicides to provide broader control than the pests noted.		
	 When this product is applied with any other product, observe the most restrictive precautions an restrictions that appear on either of the products' label. 				

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CROP	DISEASES	RATE (Pints per Acre)	USE INSTRUCTIONS	
CRANBERRIES	Phytophthora root rot (Phytophthora spp.)	2 to 3.5	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.	
	 Do not apply this product to cr Do not apply within 45 days be Do not apply more than 10.5 p 	anberries by a efore harvest. pints per acre p	ir. per growing season.	
CUCURBIT VEGETABLES Including Chayote Chinese waxgourd Citron melon Cucumber Gherkin, Gourd, edible Momordica spp. (balsam apple, balsam pear, bitter melon Crenshaw, Honeydew, Honey balls, Mango, Persian, pineapple, Santa Claus, snake melons)Damping-off Cottony leak (Pythium spp.)2 to 4Pre-plant Incorpor broadcast soil app liquid fertilizer to p incorporate in the to the formula in the C this label to calcula needed per acre forRoot rot (balsam apple, balsam pear, bitter melon (cantaloupe, casaba, Crenshaw, Honey dew, Honey balls, Mango, Persian, pineapple, Santa Claus, snake melons)Root rot (Pythium spp.)0.5 to 0.8Surface Applicat sufficient water on 	Pre-plant Incorporated Application: Apply as a broadcast soil application 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. Use the formula in the General Instructions section of this label to calculate the amount of this product needed per acre for the band width actually used.			
	Root rot (Pythium spp.)	0.5 to 0.8	Sufficient water or liquid fertilizer to provide uniform coverage. For banded applications, a 7 inch band is recommended. Use the formula in the General Instructions section of this label to calculate the amount this product needed per acre for the band width actually used. 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.	
		0.5 to 0.8	Soil Directed Spray: If soil application was made of this product at planting, two additional applica- tions 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: This product may also be injected into the irrigation water at the appropriate rates. Do not use this product for disease control in greenhouse crops. Do not dip plants in solutions containing this product or crop injury may occur. Do not apply within 5 days of harvest. Do not exceed 4 pints per acre per crop season from all methods of application combined. 			

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CROP	DISEASES	RATE (Pints per Acre)	USE INSTRUCTIONS		
DECIDUOUS NONBEARING FRUITS AND NUTS IN ORCHARDS	Crown, Collar and Root Rots (Phytophthora spp.)	1 gallon	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. For established plantings make the first application in the spring before growth starts. For banded applications, use the formula in the General Information section of this label to calculate the amount of this product needed per acre. Soil surface spray of this product will not be effective until the fungicide is moved into the root zone by rainfall or irritation.		
	 Use this product in conjunction with good cultural practices and tolerant rootstocks to minimize diseas problems. Applications should be made before symptoms appear, especially in areas favorable for diseas development. This product will not revitalize trees showing moderate to severe disease symptoms. 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 it around the tre 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 3 callons of this product area per year. 				
FRUITING VEGETABLES (Except Cucurbits) Including Eggplant Groundcherry Pepper (bell, chili, cooking pepper, pimento, sweet) Tormatillo Tormato (see Tomato Section)	Damping-off (<i>Pythium spp.</i>) Crown rot (<i>Phytophthora capsici</i>)	2	To control Crown Rot, apply before the plants are infected to obtain satisfactory control. Plants already infected with <i>Phytophthora capsici</i> cannot be cured with this product. Soil Spray (broadcast or band): Apply in water or liquid fertilizer preplant or at planting. For direct seeded peppers, apply preplant or prior to emergence. For banded applications, use 12 to 16 inch band. 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.		
			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. Shank Application: Apply in liquid fertilizer, shanked in as a banded treatment to either side of the plant.		
	 This product may cause some yellowing of the pepper leaves. Plants already infected with <i>Phytophthora</i> cannot be cured with this product. 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. 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 this product. To avoid possible illegal residues do not apply within 7 days of harvest and do not apply more than 6 pin of this product per acre of crop per season. 				

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CROP	DISEASES	RATE (Pints per Acre)	USE INSTRUCTIONS	
GINSENG	Phytophthora root rot (Phytophthora cactorum)	1.5	Drench: Apply in 100 to 400 gallons of water uniformly to the soil surface in the spring before the plants begin growing.	
	 Do not make any supplementa 	al application c	f this product.	
GRASSES, FORAGE, FODDER, HAY*	Seeding diseases (<i>Pythium spp.</i>)	1	Stand Establishment: Apply as a broadcast surface spray at planting in a minimum of 20 gallons of water. Use 0.5 to 1 pints per acre if grass seed was previously treated with a metalaxyl or mefenoxam seed treatment product. User the hither rate per acre in areas where there is a history of <i>Pythium</i> disease.	
	 *Any grass, Graminae family (either green or cured), except the following. Do not ap sugarcane; to any of the following that will be fed or grazed by livestock: barley, buckwheat millet (pearl or proso), oats, popcorn, rice, rye, sorghum, teosinte, triticale, wheat, or wild r to any enclosed pasture grasses or grasses grown for hay or silage such as bermuda bluegrass, bromegrass, or fescue. Do not graze, feed green forage, or cut for hay for 60 days following applications. Do not apply to range grasses. 			
HOPS	Downy mildew (Pseudoperonospora humulii)	1	Soil Drench: Apply in a minimum of 20 gallons of water or liquid fertilizer to the soil surface over the crowns after pruning, but before training. Early application before shoots are 6 inches long is preferable.	
			Foliar Spray: When primary infection (spikes) persist after a soil drench treatment and/or first there is the first evidence of secondary (foliar) infection, apply this product in combination with a contact copper fungicide.	
	 Do not make more than 3 appl Do not make the last application Do not apply foliar sprays of the 	lications per se on within 45 da is product with	eason. ays of harvest. hout a copper fungicide registered for use on hops.	
LEAFY VEGETABLES Including Amaranth Arugula Cardoon Celery Celery, Chinese Celtuce Chervil Chrysanthemum, edible-leaved Chrysanthemum, garland Corn salad Cress, garden Cress, upland Dandelion Dock (Sorrel) Endive (Escarole) Fennel, Florence (finochio) Lettuce - head and leaf (see below) Orach Parsley	Damping-of (Pythium spp.)	2 to 4	Preplant Incorporated Applications: Apply as a soil application in sufficient water or liquid fertilizer to provide uniform coverage and incorporate in the top 2 inches of soil. For banded applications, a minimum of a 7 inch band is recommended. Use the formula in the General Instructions section of this label to calculate the amount of this product needed per acre for the band width actually used. Surface Application: Apply at planting in sufficient water or liquid fertilizer to provide uniform coverage. For banded applications, a minimum of a 7 inch band is recommended. Use the formula in the General Instructions section of this label to calculate the amount of this product needed per acre for the band width actually used. 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.	

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CROP	DISEASES	RATE (Pints per Acre)	USE INSTRUCTIONS
LEAFY VEGETABLES (cont.) Including Purslane, garden Purslane, winter Radicchio (red chicory) Rhubarb Spinach (see below) Spinach, New Zealand Spinach, vine Swiss Chard	Damping-of <i>(Pythium spp.)</i>	2 to 4	See Preplant Incorporated Applications and Surface Application instructions above.
Spinach Only	White rust <i>(Albugo occidentalis)</i> Downy mildew	8 Fluid Ounces	Shanked Application: In addition to the preplant incorporated or surface application described above, shank in this product around 21 days after planting or after the first cutting. Another application may be shanked in after the next cutting. If less than the full bed is treated, use the formula in the General Instructions section to determine the amount of this product needed per acre. If this product is injected into the beds with liquid fertilizer, base calculations on a 7 inch band. A total of 2 supplemental applications may be used on a 21 day interval. Use sufficient mechanical or bypass agitation to keep this product mixed with the water or fertilizer.
Lettuce - Head and Leaf	Downy Mildew (Bremia lactucae)	0.25 to 0.50	Foliar Spray: Apply this product by ground or air in a tank mix with another fungicide labeled for the control of downy mildew. Apply at the full labeled rate of the tank-mixed partner. Apply when conditions favor disease development on a 14 day schedule.
	 The additional applications of t the fungicide into the beds alk However white rust can only be with an application of this produ- not use this product at any oth applications or in situations wh product in curative applications to metalayl/mefenoxam. The d product in controlling white rus Do not harvest spinach within a days for a foliar application. Do not apply more than 4 pints of spray. Do not exceed a total of 2.8 point Do not apply foliar application Do not apply this product in fie Do not use this product application 	his product not ong with liquid e controlled in uct to the soil a ler time throug here white rust s greatly increa- levelopment of it. 21 days of last ease control in of this product p unds active ing without a tank- ids where dow ansplant water	ted above and made after each cutting by shanking fertilizer provide continuing control of white rust. a preventative disease control program that begins at planting. If this product is not used at planting, do hout the season. Do not apply this product in foliar infections are already established. The use of this ases the risk of the fungus developing insensitivity i insensitivity will destroy the effectiveness of this application for soil applied applications or within 7 greenhouse crops. ber growing season soil-applied and 1 pint as a foliar gredient per acre of metalaxyl per growing season. mix partner. my mildew is already established.

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CROP	DISEASES	RATE (Pints per Acre)	USE INSTRUCTIONS		
LEGUME VEGETABLES (Succulent or Dried) Including Bean (<i>Lupinus spp.</i>) (grain, lupin, sweet lupin, white lupin, white sweet lupin) Bean (<i>Phaseolus spp.</i>) (field, kidney, lima, navy, pinto, runner, snap, tepary, wax) Bean (<i>Vigna spp.</i>) (adzuki, asparagus, blackeyed pea, catjang, Chinese long- bean, cowpea, crowder pea, moth, mung, rice, southern pea, urd, yardlong)	Damping off Root rot <i>(Pythium spp.)</i>	1 to 2	Preplant Incorporation Application: Apply as a broadcast soil application in sufficient water or liquid fertilizer to provide uniform coverage and incorporate in the top 2 inches of coil. For banded application, a 7 inch band is recommended. Use the formula in the General Information section of this label to calculate the amount of this product needed per acre for the band width actually used. Surface Application: Apply at planting in sufficient water or liquid fertilizer to provide uniform coverage. For banded application, a 7 inch band is recommended. Use the formula in the General Information section of this label to calculate the amount of this product needed per acre for the band width actually used.		
Broad Bean (fava bean) Chickpea (garbanzo bean) Guar Jackbean Lablab bean (hyacinth bean) Lentil Pea (<i>Pisum spp.</i>) (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	 Do not use this product for dise To control Rhizoctonia root and beans, this product may be tar 	Do not use this product for disease control in greenhouse or field grown vegetable bedding o control Rhizoctonia root and stem rot or white mold (<i>Sclerotinia sclerotorium</i>) in snap a beans, this product may be tank mixed with a product labeled for the control of that disea			
ONIONS Including Dry Bulb Garlic Onions (dry bulb) Shallots (dry bulb)	Damping-off <i>(Pythium spp.)</i>	1 to 2	Preplant Incorporated: Apply as a broadcast soil application 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. Use the formula in the General Information section of this label to calculate the amount of this product needed per acre for the band width actually used.		
Green eschalots Green onions Green shallots Japanese bunching onions Leeks Scallions Spring onions Onions Grown for Seed			Surface Application: Apply at planting in sufficient water or liquid fertilizer to provide uniform coverage. For banded application, a 7 inch band is recommended. Use the formula in the General Information section of this label to calculate the amount of this product needed per acre for the band width actually used. If natural rainfall is not expected before the seeds start germinating, this product should be incorporated mechanically before planting with 0.5 to 1-inch sprinkler irrigation		
	Do not use this product for disease control in greenhouse or field-grown vegetable bedding plants.				

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CROPS (Continued)					
CROP	DISEASES	RATE (Pints per Acre)	USE INSTRUCTIONS		
PEANUTS	Seeding and pod diseases (Pythium spp.)	0.5	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.		
		1 to 2	Pod Rot: Apply at early pod set or pegging through overhead irrigation systems. See the General Information section of this label for further instructions and precautions when making applications through irrigation systems.		
	• Where pathogens other than P in combination with this product.	ythium spp. are	e present, use fungicides that control those diseases		
	• Where the predominate pod rot at 1 to 2 pints per acre tank mix	ed with a prod	Pythium spp. and Hhizoctonia spp. use this product uct labeled for the control of Rhizoctonia spp.		
PEPPERS AND EGGPLANT	Damping-off (<i>Pythium spp.</i>) Crown rot (<i>Phytophthora capsici</i>) * This product may cause some • Plants already infected with <i>Ph</i> • The foliar blight phase of <i>Phyto</i> ; • Do not use this product for disc	2 yellowing of th <i>ytophthora</i> car <i>ohthora</i> cannot	To control crown rot, apply before the plants are infected to obtain satisfactory control. Soil Spray : Apply at the time of planting in sufficient water or liquid fertilizer to provide uniform coverage. For direct-seeded peppers, apply pre-plant prior to emergence. If rainfall is not expected before the plants begin growth, this product should be incorporated mechanically before planting or be moved into the root zone after planting with 0.5 to 1 inch of sprinkler irrigation water. For banded applications use a 12 to 16 inch band. A total of 2 supplemental post-directed applications may be used on a 30 day interval. Use sufficient mixed with the water or fertilizer. The spray should be directed at the base of the plants and cover 6 to 8 inches of soil on either side of the plants. Such applications must be incorporated mechanically or by sprinkler irrigation to move this product into the root zone. Shanked : This product may be applied with liquid fertilizer shanked in as a band treatment to either side of the plant. Use the formula in the General Instructions section of this label to calculate the amount of this product needed per acre for the band width actually used. If this product is injected into the beds with liquid fertilizer, base calculations on a 7 inch band.		
	 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. To avoid possible illegal residues do not apply within 7 days of harvest and do not apply more than 6 pints of this product per access. 				

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CROP	DISEASES	RATE (Pints per Acre)	USE INSTRUCTIONS		
PINEAPPLE	Heart rot disease (Phytophthora spp.)	1 to 2 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 tech- niques. Use 75 to 100 gallons of mixture per acre.		
	 If there is a crop failure within animal feed. 	1 year of planti	ng treated crowns, do not harvest plant material for		
POTATOES	Pythium leak (Pythium spp.) Pink rot (Phytophthora erythroseptica) Seedling disease (Pythium spp.)	0.84 fluid ounces per 1,000 row feet	 In-Furrow: Apply to row on a 6 to 8 inch band at planting in a minimum of 3 gallons of water per acre. Make application directly over the seed piece(s) prior to row closure. You may need to follow this in-furrow application with a foliar applied fungicide at tuber initiation: When conditions are conductive 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 fertilizers. 		
	 Do not apply this product within 14 days of harvest. Do not use the "dribble" application method. Apply mixture through pumping systems only. To avoid development of insensitivity in the pathogen population, do not apply this product or one similar in chemistry to potatoes beyond the at-planting growth stage. 				
RASPBERRIES	Phytophthora root rot (Phytophthora spp.)	0.50 per 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.		
	 Do not apply within 45 days of 	harvest.			
ROOT AND TUBER VEGETABLES Arracacha Arrowroot Artichoke (Chinese and Jerusalem) Beet, garden Beet, sugar (see Sugar Beet	Pythium spp. Phytophthora spp.	2 to 4	Preplant Incorporated Applications: Apply as a broadcast soil application 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. Use the formula in the General Instructions section of this label to calculate the amount of this product needed per dose for the band width actually used.		
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			Surface Application: Apply at planting in sufficient water or liquid fertilizer to provide uniform cover- age. For banded applications, a 7 inch band is recommended. Use the formula in the General Instructions section of this label to calculate the amount of this product needed per acre for the band width actually used. 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.		

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CROP	DISEASES	RATE (Pints per Acre)	USE INSTRUCTIONS		
ROOT AND TUBER VEGETABLES (continued) 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	• Do not use this product for dise	2 to 4	See Preplant Incorporated Applications and Surface Application instructions above.		
	Do not exceed 4 pints per acre	e per crop of s	oil applied.		
SOYBEANS	Phytophthora root and stem rot (Phytophthora megasprema) Pythium damping off (Pythium spp.)	0.15 to 0.55 fluid ounces per 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 to 2.5	Soil Spray: For full season control, apply 2.5 pints per treated acre in sufficient water or liquid fertilizer to provide uniform coverage at the time of plantings. For banded applications, a 7 inch band is recommended. Use the formula in the General Information section of this label to calculate the amount of product needed per acre for the band width actually used. For early to mid season control, apply 0.75 to 1.5 pints per acre.		
	 This product is specific for <i>Pythium</i> and <i>Phytophthora</i> and will not control other diseases may attack soybeans. Under heavy late season <i>Phytophthora</i> pressure, this product may not provide complete co. Use the higher rate in areas with a history of heavy <i>Phytophthora</i> damage. For best results, use soybean varieties that have some degree to the races of <i>Phytoph</i> present in the field. 				

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CROP	DISEASES	RATE (Pints per Acre)	USE INSTRUCTIONS		
STONE FRUITS Including Apricot Cherries (sweet and tart) Nectarine Peach Plum (Chickasaw, Damson, Japanese) Plumcot Prune (fresh)	Crown, Collar and Root rots (Phytophthora spp.)	1 Gallon (3 fluid ounces per 1,000 square feet)	Apply in sufficient water to obtain thorough coverage of the soil under the canopy of the trees. Sufficient surface area should be treated in nurseries to cover the root zone of the plants 2 weeks after planting (new plantings) or in the spring before plant growth (established plantings. Additional applications should be made at 2 to 3 month intervals depending on disease pressure. Up to 3 applications can be made per year. For intense plantings (2 to 3 times the normal planting rate) make applications on a per area basis.		
Hybrids or cultivars of these ALMONDS WALNUTS	 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 diseas symptoms. Do not graze livestock in treated areas. Do not graze or feed cover crops in treated orchards. Do not dip the roots of trees in the treatment solution, spray the roots, or concentrate the treatment arout the tree trunks or injury may occur. 				
	 For tree densities 2 to 3 times the In CA do not apply this product n Do not exceed 3 gallons per acre 	stress. as the normal density, make applications on a per acre basis. uct newly planted trees within 45 days of planting r acre per vear.			
STRAWBERRIES	Red stele (Phytophthora fragariae) Vascular collapse (P. cactorum) Leather rot (P. cactorum)	2	New 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 irritation application to cover the root zone Do not apply more than 6 pints of For low annual rainfall areas, a suby rainfall, overhead irrigation, or 	n systems, use e of the plants. of product per a urface application r mechanical inc	e the same amount as would be applied in a band cre per year. on of this product needs to be moved into the root zone corporation.		
SUGAR BEETS	Pythium spp.	2 to 4	Preplant Incorporated: Apply as a broadcast soil application in sufficient water or liquid fertilizer and incorporate in the top two inches of soil. For banded applications, a 7 inch band is recommended. Use the formula in the General Instructions section of this label to calculate the amount of this product needed per acre for the band width actually used.		
			Surface Application: Apply at planting in sufficient water or liquid fertilizer to provide uniform coverage. For banded applications, a 7 inch band is recommended. Use the formula in the General Instructions section of this label to calculate the amount of this product needed per acre for the band width actually used. If natural rainfall is not expected before the seeds begin germinating, this product should be moved into the seed zone after planting with 0.5 to 1 inch sprinkler irrigation.		

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CROP	DISEASES	RATE (Pints per Acre)	USE INSTRUCTIONS		
TOBACCO	Blue mold (Peronospora tabacina) • For best control of blue mold use field prior to transplanting. Do not tobacco because of the potential fo or potential excessive residues in	this product in t use this produ or the developm the crop.	Field Planted Tobacco: Apply as a broadcast so application prior to transplanting and incorporate in the top 2 to 4 inches of soil before forming beds. Fo flue-cured tobacco, use 1 to 2 pints per treated acre- depending on disease pressure and length of contro- desired. Under low disease pressure or for earl season control, use 1 pint per treated acre. For burle and other tobacco types, use 1 quart per treated acre. For prolonged control make a supplementa application of 1 pint per acre of crop as a so application at lay-by or the last cultivation. Position the nozzles so that the spray is deposited under the plant and is covered by soil by the cultivator. Do not makk this application if more than 1 quart per acre of thi product was applied prior to transplanting.		
	Black Shank (Phytophthora parastica var. nicotianea)	2 to 6	Use as a broadcast soil application prior to transplanti and incorporate in the top 2 to 4 inches of soil befor forming beds. Apply this product using convention ground application equipment in sufficient water liquid/dry fertilizer to provide uniform coverage. Use to following table to determine the amount of this produ- needed per acre depending on the black shank sever		
			Type of Disease Level Produ Tobacco In Field per Ad		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
	Continued		For product in field than 6%). For prolonged tobacco, one Make a prepla by application application at per acre as a that the spray covered with application if r was applied a incorporated cultivation and Apply this pro- transplanting quart per acre application of cultivation.	A use 3 quars per tr ds with heavy black shat of the following is n ant incorporated and a (last cultivation). Apply last cultivation at the soil treatment. Positid y is deposited under soil by the cultivator. nore than 1 quart per a at transplanting; or (2) plus 2 supplemental a d last cultivation (lay-by followed by a second at the first cultivation 1 quart per acre at	eated acre of this ank levels (greater nk in field planted ecommended: (1) supplemental lay- the supplemental lay- the supplemental ar- the supplemental ate of 1 to 2 pints on the nozzles so the plants and is Do not make this icre of this product Make a preplant pplications at first t). acre just prior to d application of 1 followed by a third lay-by or the last

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CROP	DISEASES	RATE (Pints per Acre)	USE INSTRUCTIONS			
TOBACCO (continued)	 Black Shank - (Phytophthora parastica var. nicotianea) - Continued Do not use this product for black shank control in PA. 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 rate and plant a variety that is resistant to the race of <i>Phytophthora</i> present in the field. (Burley L8 hybrids are only resistant to <i>Phytophthora Race O.</i>) This product is not recommended or use in high black shank areas on highly susceptible flue-cured varieties. Failure to adequately control nematodes in fields treated with this product may result in poor control of black shank. 					
	Damping off (Pythium spp.)	1 to 2	Soil Broadcast: Apply as a preplant soil application before or at time of planting. Use higher application rate on broadleaf tobacco.			
	Blue mold <i>(Peronospora tabacina)</i>	1 to 2	No Till Tobacco: Apply to the field prior to transplanting. Apply as a pre-plant, broadcast or banded soil application. For banded applications, use the formula in the General Instructions section of this label to calculate the amount of this product needed per acre for the band width actually used. A supplemental lay-by application may be made 30 to 35 days after planting at 1 pint per acre. 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.			
ΤΟΜΑΤΟ	Damping-off (Pythium spp.)	2 to 4	Apply in sufficient water or liquid fertilizer to provide uniform coverage at the time of planting. 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. For banded applications, a 7 inch band is recom- mended. Use the formula in the General Instructions section of this label to calculate the amount of this product needed per acre for the band width actually used.			
	Root and Fruit Rot (Phytophthora spp.) (Pythium spp.)	2	To aid in the control of root and fruit rot, 1 to 2 additional applications may be made during the growing season. Apply beginning 4 to 6 weeks after planting. A second application of 2 pints may be made depending on the severity of the conditions for disease infection up to 4 weeks before harvest, but before the last irrigation. This product may be applied as a directed soil surface spray under the vines or it may be injected into the beds with liquid fertilizer. If less that the full bed is treated, use the formula in the General Instructions section to determine the amount of this product needed per acre for the band width actually used. If product is injected into the beds with liquid fertilizer, base calculations on a 7 inch band. If soil surface sprays are used, this product must be incorporated into the soil with 0.5 to 1 inch of rainfall or sprinkler irritation.			
	 To avoid possible illegal residues, do not apply more than 6 pints per treated ac Keep this product suspended in the fertilizer solution with bypass or mechanical to the General Instructions section for drip irrigation instructions. Do not use this product for disease control in greenhouse crops. Do not use this product as a transplant water treatment. 					

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СКОР	DISEASES	RATE (Pints per Acre)	USE INSTRUCTIONS		
TROPICAL FRUIT Papaya (Hawaii Only)	Phytophthora root rot (Phytophthora spp.)	3.5 to 7.0	In Field, New Planting: Make first application a the time of transplanting to the field or within week of transplanting. Apply as a soil surface spra 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 wate Repeat in 2 to 4 weeks if conditions are favorabl for disease. Use table below as a guide for treatin- individual trees.		
			Diameter of Tree Fluid Ounces per Te Canopy (Feet) Trees		
			3	0.1 - 0.2	
		[6	0.2 - 0.4 0.5 - 0.75	
			8	0.63 - 1.25	
	 Do not apply more than 2 application per year in the fields to newly transplanted stock Do not apply within 3 months of harvest. 				

ORNAMENTALS

This product controls 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.

This product can be applied 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. 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. 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.

CROP	RATE (Fluid Ounces)	USE INSTRUCTIONS	
FOLIAGE PLANTS: Aglaonema Aphelandra Dieffenbachia	0.25 to 0.62	Drench: Mix with 100 gallons of water. Apply 1 pint of solution per squ foot. For growth media depth greater than 4 inches, apply 1.5 to 2 pints solution per square foot. Repeat applications at 2 to 3 month intervals necessary.	
Peperomia Philodendron* Pothos** Schefflera Sedum Sempervivum Zygocactus	 * 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	Soil Mix: Thoroughly mix with each cubic yard soil mixture.	
	1.0	Soil Surface Spray: Apply per 1,000 square feet 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.	

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ORNAMENTALS (Continued)

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СКОР	RATE (Fluid Ounces)	USE INSTRUCTIONS	
BEDDING PLANTS: Ageratum Algerian Ivy Artemisia Aster Begonia Caladium	0.12 to 0.25	Drench At Seeding (Soil 2-3 inches deep): Mix with 100 gallons of water and apply 1 pint of solution per square foot.	
	0.25 to 1.0	Drench At Transplanting (Soil 2-3 inches deep): Mix with 100 gallons of water and apply 1 pint of solution per square foot. Repeat applications at 1 to 2 month intervals, if necessary. Do not apply rates of 0.75 to 1 fluid ounce per 100 gallons more often than once every 6 weeks.	
Coleus Deim	0.125	Soil Mix At Seeding and At Transplanting: Thoroughly mix with eacubic yard of soil mixture.	
Daisy English Ivy* Foxglove Gailardia Geranium Impatiens Marigold Pansy Petunia Phlox Primrose Prostrate Rosemary Salvia Snapdragon Verbena Vinca Zinnia	1.0	Soil Surface Spray: Apply per 1,000 square feet 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.	
	* Do not apply to Eng	jlish Ivy more than once every 6 months.	
FLOWERS African violet Anthurium Baby's breath Carnation Chrysanthemum Columbine Delphinium Easter lily* Geranium Gloxinia Poinsettia Rose	0.2 to 1	Drench Mix: Mix with 100 gallons of water and apply 1 pint of solution per square foot. For growth media depth greater than 4 inches, apply 1.5 to 2 pints of solution per square foot. Repeat applications at 1 to 2 month intervals, if necessary. Do not apply rates of 0.75 to 1.0 fluid ounces per 100 gallons more often than every 6 weeks.	
	0.25 to 1	Soil Drench Applications at the Time of Transplanting: Mix in 100 gallon s of water. For media with a depth of less than 4 inches, apply at a volume of 16 fluid ounces per square foot. For media with a depth of 4 inches or more, apply at a volume of 24 to 32 fluid ounces per square foot. Repeat applications at 4 to 12 week intervals as needed. 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.	
	1	Soil Surface Spray Applications in the Landscape: Apply 1,000 square feet to the soil surface 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	Soil Media Incorporation: Thoroughly mix this product into each cubic yard of soil media. Do not exceed 0.13 fluid ounce per cubic yard in medias to be used for bedding plants.	
	* 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.		

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ORNAMENTALS (Continued)

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CROP	RATE (Fluid Ounces)	USE INSTRUCTIONS	
AZALEAS AND RHODODENDRONS	0.50 to 1.25	Soil Drench: Mix in 100 gallons of water. For media with a depth of less than 4 inches, apply at a volume of 16 fluid ounces per square foot. For media with a depth of 4 inches or more, apply at a volume of 24 to 32 fluid ounces per square foot. Repeat applications at 2 to 4 month intervals as needed.	
	0.60 to 1.25	Foliar Spray: Phytophthora shoot blight - Mix in 100 gallons of water spray to runoff. Repeat at 2 to 3 month intervals as needed.	
		Soil Surface Spray: Apply to the soil surface 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.	
	• 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 lower rate for azalea variety "Coral Bell".		
WOODY ORNAMENTALS OTHER THAN AZALEAS Aucuba japonica Arborvitae Boxwood Ceanothus Cotoneaster Dogwood Ficus "Halls" Honeysuckle Ilex Juniperus spp. Photinia Pieris japonica Pinus spp. Pittosporum Rhododendron White Cedar White Pine Yew	0.5 to 2.0	Drench: Mix with 100 gallons of water and apply 1 pint of solution per square foot. For growth media depth greater than 4 inches, apply 1.5 to 2 pints of solution per square foot. Repeat applications at 2 to 3 month intervals, if necessary. Do not apply rates of 4 fluid ounces per 100 gallons more often than every 10 weeks.	
	1.0 to 2.5	Soil Surface Spray: Apply per 1,000 square feet 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.	
	• Do not apply to Euo	nymous or injury may occur.	

INTERIORSCAPE 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 Ultra Flourish II 4SC to add to water to make the following quantities				
	1 gallon	5 gallons	10 gallons	25 gallons	
0.25	4 drops	18 drops	37 drops 0.75 ml	1.9 mis. 3/8 tsp.	
0.5	7 drops	37 drops 0.75 ml	1.5 ml 1/4 tsp	3.7 mls. 3/4 tsp.	
1.0	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	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*.: This product 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 to 3 fluid ounces	Soil drench applications: Mix in 100 gallons of water. 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	Soil surface spray applications: Apply per acre of treated soil in 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.

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

CONIFERS/CHRISTMAS TREES IN NURSERIES AND PLANTATIONS

For control of Phytophthora root rot in conifers.

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

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 1/2 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.

. 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.

LAWNS AND TURF (Continued)

SITE	DISEASES	RATE (Fluid Ounces)	USE INSTRUCTIONS
Established Lawns and Turf	<i>Pythium</i> Blight Yellow Tuft Downy Mildew		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 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	0.5 to 1.0	Apply in 1 to 5 gallons of water per 1000 square feet immediately after seeding and irrigate with 1/4 to 1/2 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.

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. The 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. Contact Nufarm's Customer Service Department at 1-800-345-3330 to arrange for return of the empty refillable container.

WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1) THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

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