



U.S. ENVIRONMENTAL PROTECTION AGENCY

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

EPA Reg. Number:

55146-166

Date of Issuance:

4/22/22

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

NUP-19057

Name and Address of Registrant (include ZIP Code):

Nufarm Americas Inc.
4020 Aerial Center Parkway, Suite 101
Morrisville, NC 27560

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

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

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

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

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Nathan Mellor, Product Manager 21
Fungicide Branch, Registration Division (7505P)

Date:

4/22/22

2. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, “EPA Reg. No. 55146-166.”
3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

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

- Basic CSF dated 01/25/2021
- Alternate CSF 1 dated 01/25/2021

If you have any questions, please contact James Orrock via email at orrock.james@epa.gov

Enclosure

ACCEPTED
04/22/2022
Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 55146-166

| | | | |
|-----------|-------|---|-----------|
| MEFENOXAM | GROUP | 4 | FUNGICIDE |
|-----------|-------|---|-----------|

NUP-19057

[Agricultural Fungicide] [Fungicide]

[Alternate Brand Names: Ultra Flourish® HL, Ultra Flourish® HL Fungicide]

For the control of certain diseases in listed crops caused by the Oomycete class of fungi

ACTIVE INGREDIENT:

Mefenoxam: D-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester 45.3%

OTHER INGREDIENTS: 54.7%

TOTAL: 100.0%

Contains petroleum distillates
Contains 4 pounds mefenoxam per gallon

KEEP OUT OF REACH OF CHILDREN
CAUTION
SEE INSIDE LABEL BOOKLET FOR [FIRST AID AND] PRECAUTIONARY STATEMENTS [AND
DIRECTIONS FOR USE]

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

EPA Reg. No. 55146-XXX

EPA Est. No. _____

Manufactured for
Nufarm Americas Inc.
AGT Division
11901 S. Austin Avenue
Alsip, IL 60803



NET CONTENTS: ____ Gallons (____ L)

[Designation as “NONREFILLABLE” or “REFILLABLE” for containers > 5 GAL]

[Grow a better tomorrow.]

| FIRST AID | |
|---|---|
| IF SWALLOWED | <ul style="list-style-type: none"> • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person. |
| IF IN EYES | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice. |
| IF INHALED | <ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. • Call a poison control center or doctor for treatment advice. |
| HOTLINE NUMBER | |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact (877) 325-1840 for emergency medical treatment information. | |
| NOTE TO PHYSICIAN | |
| Contains petroleum distillates. Vomiting may cause aspiration pneumonia. No specific antidote. Treat symptomatically. | |

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

Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wear protective eyewear. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate
- Shoes plus socks

User Safety Requirements

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Controls

When handlers use closed systems, 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 |
|---|
| <p>Users Should:</p> <ul style="list-style-type: none"> • Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. • Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. • Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing. |

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high-water mark. Apply only as specified on this label. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water when disposing of equipment washwater or rinsate.

Groundwater Advisory

Mefenoxam is known to leach through the soil into groundwater under certain conditions as a result of label use. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Surface Water Advisory

This product may contaminate water through drift of spray in wind. This product has a high potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall-runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statement of this label about personal protective equipment (PPE) and restricted-entry interval (REI). 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, chemical-resistant gloves such as barrier laminate, shoes plus socks.

Failure to follow the directions for use and precautions on this label may result in crop injury, poor disease control, or illegal residues.

PRODUCT INFORMATION

This product is a systemic fungicide for use on selected crops to control certain diseases caused by members of the Oomycete class of fungi. Other fungicides must be used to control diseases caused by other classes of fungi.

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.

Under conditions conducive to severe disease pressure, resistance development may be delayed by rotating the use of this product with additional applications using an alternate fungicide from a different mode of action group that is registered for the crop/disease appearing on this label (see also the Resistance Management Recommendations section).

Replanting

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

USE RESTRICTIONS

- Do not use this product in foliar applications unless specified on this label.
- Do not use this product in greenhouses, lath houses, float houses, and hydroponic facilities unless specified on this label.
- Do not use this product for disease control in bedding plants, transplant trays or nurseries except where specifically allowed in certain crop sections.
- Do not dip plants or roots, spray bare roots, or use a transplant water treatment with solutions containing this product except where specifically allowed in certain crop sections.
- 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 yearly total application rate for the active ingredient as stated on the label of the product containing the lowest yearly total on that crop.
- The maximum annual rate must not exceed 12.3 lb a.i./A or the lesser value listed in the Crop Specific Use Directions section.

ROTATIONAL CROP RESTRICTIONS

The following crops may be planted at the specified interval following application of this product:

| ROTATIONAL CROP | PLANTING TIME FROM LAST APPLICATION |
|---|-------------------------------------|
| Alfalfa (including birdsfoot trefoil) | 0 days |
| Artichoke, Globe | |
| Asparagus | |
| Avocado | |
| Brassica (Cole) Leafy Vegetables, Crop Group 5 | |
| Bushberry Subgroup 13-07B | |
| Caneberry Subgroup 13-07A | |
| Clover | |
| Corn | |
| Cotton | |
| Cranberries | |
| Cucurbit Vegetables, Crop Group 9 | |
| Fruiting Vegetables (except Cucurbits), Crop Group 8 | |
| Ginseng | |
| Grapes | |
| Grass Forage, Fodder, and Hay, Crop Group 17 | |
| Herbs (fresh and dried), Crop Subgroup 19A | |
| Hops | |
| Leafy Vegetables (except Brassica Vegetables), Crop Group 4 | |
| Legume Vegetables (succulent or dried), Crop Group 6 | |
| Onions: Bulb Onion (Subgroup 3-07A); Green Onion (Subgroup 3-07B); Garlic | |
| Peanuts | |
| Pineapples | |
| Root and Tuber Vegetables, Crop Group 1 | |
| Soybeans | |
| Small Fruit Vine Climbing Subgroup, Except Grape (13-07E) | |
| Strawberries | |
| Sunflower | |
| Tobacco | |
| Tropical and Subtropical Fruits | |
| Wasabi | |
| Any other crops specified on this label | |
| Cereal Grains (other than Corn) | 14 days |
| Crops not intended for food or feed | 0 days |
| All other crops intended for food or feed | 365 days |

RESISTANCE MANAGEMENT

For resistance management, this product contains mefenoxam, a Group 4 fungicide. Any fungal population may contain individuals naturally resistant to this product and other Group 4 fungicides. A gradual or total loss of pest control may occur over time if these fungicides are used repeatedly in the same fields. Follow appropriate resistance-management strategies.

The following steps may delay the development of fungicide resistance:

- ◆ Rotate the use of this product or other Group 4 fungicides within a growing season sequence with different groups that control the same pathogens.
- ◆ Use tank mixtures with fungicides from a different group that are equally effective on the target pest when such use is permitted. Use at least the minimum application rate as labeled by the manufacturer.
- ◆ Adopt an integrated disease management program for fungicide use that includes scouting, uses historical information related to pesticide use, and crop rotation, and which considers host plant resistance, impact of environmental conditions on disease development, disease thresholds, as well as cultural, biological and other chemical control practices.
- ◆ Where possible, make use of predictive disease models to effectively time fungicide applications. Note that using predictive models alone is not sufficient to manage resistance.
- ◆ Monitor treated fungal populations for resistance development.
- ◆ Contact your local extension specialist or certified crop advisor for any additional pesticide resistance management and/or IPM guidance for specific crops and pathogens.
- ◆ For further information or to report suspected resistance, contact Nufarm Americas Inc. at (855) 280-6609. You can also contact your pesticide distributor or university extension specialist to report resistance.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT.

BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

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

Controlling Droplet Size - Ground Boom

- Volume - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size - Aircraft

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

BOOM HEIGHT - Ground Boom

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

RELEASE HEIGHT- Aircraft

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

SHIELDED SPRAYERS

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

TEMPERATURE AND HUMIDITY

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

TEMPERATURE INVERSIONS

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

WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

MIXING INSTRUCTIONS

Prepare no more spray mixture than is required for a single day. Rinse spray tank thoroughly with clean water after each day's use and dispose of pesticide rinsate by application to an already treated area.

- Add 1/4 to 1/2 of the required amount of water to the spray or mixing tank.
- Agitate the water and add the proper amount of this product.
- Continue agitation while adding the rest of the water and allow the product to completely disperse.
- Maintain constant agitation of the spray solution during application.

TANK MIXING

When tank mixing with other products, follow the proper sequence for adding products to the spray tank. Add wettable powders or water dispersible granules to the water in the tank first. Follow with liquid flowable products and add emulsifiable concentrates, such as this product, last. Allow the material to completely disperse into the mix water.

Unless otherwise prohibited on this label or the label of an intended tank mix partner, this product may be applied in combination with any pesticide registered for the same crop, timing, and method of application.

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

IMPORTANT: PESTICIDE TANK MIXES MAY INCREASE THE RISK OF MIXING INCOMPATIBILITIES, REDUCED EFFECTIVENESS, AND/OR CAUSE CROP INJURY OR LOSS.

COMPATIBILITY

Before full-scale mixing of this product with other pesticides, fertilizers, secondary plant nutrients, adjuvants, surfactants or oils, you must determine the compatibility of the proposed mixture. Use proportionate quantities of each ingredient and mix in a small container. Always mix one product thoroughly with the diluent before adding another product. If no incompatibility is evident after 30 minutes, the mixture is generally compatible for spraying. To evaluate potential short-term effects of applying the mixture, test the tank mix combination on a few plants or a small area before larger-scale treatments. Wait at least 2 to 3 days for problems to become apparent.

APPLICATION INSTRUCTIONS

Apply this product by ground or air in sufficient water or liquid fertilizer to provide uniform coverage of the soil surface. For ground applications, apply in a minimum of 20 gallons of water per acre, unless specified otherwise in the crop specific use directions. Apply in a minimum of 3 gallons of water per acre by air. Refer to the Crop Specific Use Directions section for use instructions.

Banded Applications: Application rates in the Crop Specific Use Directions are in many instances expressed as an amount of product per acre which refers to the total crop area to be treated. If banded applications are made, the amount of pesticide required per acre will be proportionately less. Use the following formula to calculate the amount of this product needed per acre of crop when making banded applications:

$$\frac{\text{Band width in inches}}{\text{Row spacing in inches}} \times \text{Broadcast rate per acre} = \text{Amount needed per acre of field}$$

In-Furrow Applications: For in-furrow applications, apply this product as an in-furrow spray in 3 to 7 gallons of water per acre at planting. Mount the spray nozzle so the spray is directed into the furrow just before the seeds are covered. The following table provides common row spacings and the corresponding amount of this product to apply per acre.

| Product Use Rate fl oz / 1,000 row feet (oz ai / 1,000 row feet) | Fluid Ounces of Product per Acre | | | | | | | | |
|--|----------------------------------|-----------------|----------------------------------|-----------------|-----------------|----------------------------------|-----------------|-----------------|-----------------|
| | 20 inch rows | 22 inch rows | 24 inch rows | 30 inch rows | 32 inch rows | 34 inch rows | 36 inch rows | 38 inch rows | 40 inch rows |
| 0.08 (0.038) | 2.1 | 1.9 | 1.7 | 1.4 | 1.3 | 1.2 | 1.1 | 1.1 | 1.0 |
| 0.15 (0.078) | 3.9 | 3.6 | 3.2 | 2.6 | 2.4 | 2.3 | 2.2 | 2.0 | 1.9 |
| 0.28 (0.14) | 7.3 | 6.7 | 6.1 | 4.8 | 4.6 | 4.3 | 4.0 | 3.8 | 3.7 |
| 0.42 (0.21) | 11.0 | 10.0 | 9.1 | 7.3 | 6.8 | 6.5 | 6.1 | 5.8 | 5.4 |
| 20" = 26,136 row ft./acre | | | 22" = 23,760 row ft./acre | | | 24" = 21,780 row ft./acre | | | |
| 30" = 17,424 row ft./acre | | | 32" = 16,315 row ft./acre | | | 34" = 15,374 row ft./acre | | | |
| 36" = 14,520 row ft./acre | | | 38" = 13,754 row ft./acre | | | 40" = 13,068 row ft./acre | | | |

INSTRUCTIONS FOR MOVING THE PRODUCT INTO THE ROOT OR SEED ZONE

To ensure maximum activity on soilborne pathogens, this product must be moved into the seed or root zone of the plant. Some crop directions specify incorporating the product to move it to the seed or root zone (preplant incorporated application, soil drenches, shank applications) while others place the fungicide into the seed or root zone (in-furrow sprays, soil injections, crown dips). For applications made to the soil surface, rainfall will move the fungicide to the seed or root zone. However, if rainfall is not expected within 24 hours after application, mechanically incorporate before planting or sprinkler-irrigate after planting with ½ to 1 inch of water.

SPRAY EQUIPMENT

Nozzles

- Equip sprayers with nozzles that provide accurate and uniform application.
- For best results, use same size nozzles uniformly spaced across the boom.
- Calibrate sprayer before use.
- It is suggested that screens be used to protect the pump and to prevent nozzles from clogging.
- Use 16-mesh or coarser screens on suction side of pump.
- Do not place a screen in the recirculation line.
- Use 50-mesh or coarser screens between the pump and boom, and where required, at the nozzles.
- Check nozzle manufacturer's instructions.

Pump

- Use a pump with capacity to:
 - Maintain sufficient agitation and pressure at the nozzles.
 - Provide sufficient agitation in the tank to keep the mixture in suspension. This requires recirculation of 10% of tank volume per minute.
- Use a jet agitator or liquid sparge tube for agitation.
- Do not air sparge.

For more information on spray equipment and calibration, consult the sprayer manufacturer and your State Extension Service Specialist.

APPLICATION THROUGH IRRIGATION SYSTEMS

Use only on crops for which application through irrigation systems is specified on this label.

- Apply this product through center pivot, solid set, hand move, moving wheel, micro-sprinkler, or drip 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.
- If you have any questions about calibration, contact the State Extension Service Specialist, equipment manufacturers or other experts.
- 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.
- Apply this product on the schedule specified in the specific crop use directions, not according to the irrigation schedule.

Note: Dilute this product with water in the mix tank prior to injection into an irrigation system to avoid damage to valves and seals. Use a dilution ratio of at least 15 parts water to 1 part product. Proper tank-mix agitation is required during this mixing procedure. This product can affect many seal materials. Leather seals are best. EPDM or silicone rubber seals may be used but users are advised to replace them once a year. Do not use Viton, Buna-N, Neoprene or PVC seals.

OPERATING INSTRUCTIONS

- The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- The pesticide injection pipeline must contain a functional, automatic, quick-closing check-valve to prevent the flow of fluid back toward the injection pump.
- The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- Do not apply when wind speed favors drift beyond the area intended for treatment.

CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days of the year.

Chemigation systems connected to public water systems must contain a functional, reduced pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water systems should be discharged into a reservoir tank prior to pesticide introduction.

There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where the pesticide distribution is adversely affected.

Systems must use a metering pump, as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

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

CROP SPECIFIC USE DIRECTIONS

Soil surface sprays of this product will not be effective until the fungicide is moved into the root zone by rainfall or irrigation.

For banded applications, use the formula in the APPLICATION INSTRUCTIONS section of this label to calculate the amount of this product needed per acre for the band width actually used.

Soil-Injected or Soil-Incorporated Applications

The restricted-entry interval (REI) for soil-injected or soil-incorporated applications is 0 hours.

Soil Directed and Foliar Applications

The restricted-entry interval (REI) for soil directed or foliar applications is 48 hours.

| ALFALFA (Including birdsfoot trefoil) | | |
|--|-------------------------------------|---|
| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
| Damping-off (<i>Pythium</i> spp.) Root Rot (<i>Phytophthora</i> spp.) | 0.25 to 0.5 pt/A (0.125 to 0.25) | Soil Spray (broadcast): Apply at planting in a sufficient amount of water for thorough coverage. If alfalfa seed was previously treated with a metalaxyl or mefenoxam seed treatment product, use the 0.25 pt/A rate. If inter-seeding alfalfa into existing stands for renovation, apply 0.25 pt/A as a broadcast soil surface spray at planting. |
| Restrictions <ul style="list-style-type: none"> ◆ Maximum single application rate: 0.5 pt/A (equivalent to 0.25 lb mefenoxam ai/A) ◆ Minimum application interval: N/A ◆ Maximum annual application rate: 0.5 pt/A (equivalent to 0.25 lb mefenoxam ai/A) <ul style="list-style-type: none"> ▫ Do not exceed 0.25 lb ai/A/year of mefenoxam- and metalaxyl-containing products ◆ Do not feed green forage or cut hay for 60 days following application ◆ Pre-harvest interval (PHI): 60 days | | |

| APPLES (Bearing and Nonbearing Trees) | | | | | | | | | | | | |
|--|--|---|--|--------------------------------------|---------|---|---------------|---|----------|---|-----------|---|
| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS | | | | | | | | | | |
| Crown Rot Collar Rot Root Rot (<i>Phytophthora</i> spp.) | 4 pt/A (2) or 1.5 fl oz/1,000 ft ² (0.05) | Soil Spray (broadcast, band, or irrigation): Apply to soil beneath the tree canopy or apply through irrigation water (micro-sprinkler or drip) in early spring before growth starts (established plantings) and in the fall after harvest, but before the ground freezes. Treated area is based on the area under the tree canopy or the area of the sprayed row. Apply in sufficient water to obtain thorough coverage. Soil surface sprays of this product will not be effective until the fungicide is moved into the root zone by rainfall or irrigation. | | | | | | | | | | |
| | Drench Solution 0.5 pt in 100 gal water (0.25) | Soil Drench: Apply the drench solution around the trunk of each tree in early spring before growth starts and in the fall after harvest, but before the ground freezes. For new plantings, delay the first application until 2 weeks after planting. Volume of drench solution needed per tree based on trunk diameter: | | | | | | | | | | |
| | | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Trunk Diameter 12 Inches Above Soil Line</th> <th style="text-align: center;">Pints of Drench Solution Per Tree</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;"><1 inch</td> <td style="text-align: center;">2</td> </tr> <tr> <td style="text-align: center;">1 to 3 inches</td> <td style="text-align: center;">6</td> </tr> <tr> <td style="text-align: center;">4 inches</td> <td style="text-align: center;">7</td> </tr> <tr> <td style="text-align: center;">≥5 inches</td> <td style="text-align: center;">8</td> </tr> </tbody> </table> | Trunk Diameter 12 Inches Above Soil Line | Pints of Drench Solution Per Tree | <1 inch | 2 | 1 to 3 inches | 6 | 4 inches | 7 | ≥5 inches | 8 |
| Trunk Diameter 12 Inches Above Soil Line | Pints of Drench Solution Per Tree | | | | | | | | | | | |
| <1 inch | 2 | | | | | | | | | | | |
| 1 to 3 inches | 6 | | | | | | | | | | | |
| 4 inches | 7 | | | | | | | | | | | |
| ≥5 inches | 8 | | | | | | | | | | | |
| Precautions <ul style="list-style-type: none"> ◆ For best results, use in conjunction with good cultural practices and with rootstocks that are tolerant to the disease. ◆ Apply this product before symptoms appear, especially when conditions are favorable for disease development. This product will not revitalize trees showing moderate to severe disease symptoms. | | | | | | | | | | | | |

| APPLES (Bearing and Nonbearing Trees) | |
|--|--|
| Restrictions | |
| <ul style="list-style-type: none"> ◆ Maximum single application rate: 4 pt/A (equivalent to 2 lb mefenoxam ai/A) ◆ Minimum application interval: 90 days ◆ Maximum annual application rate: 8 pt/A (4 lb mefenoxam ai/A) <ul style="list-style-type: none"> ▫ Do not exceed 4 lb ai/A/year of mefenoxam- and metalaxyl-containing products ◆ Do not graze or feed cover crops in treated orchards ◆ Pre-harvest interval (PHI): N/A | |

| ARTICHOKE, GLOBE | | |
|---|---------------------------------|--|
| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
| Damping-off (<i>Pythium</i> spp.) | 1 to 2 pt/A (0.5 to 1) | Soil Spray (broadcast): Apply at planting in a sufficient amount of water to provide thorough coverage. |
| Root Rot (<i>Phytophthora</i> spp.) | | Soil surface sprays of this product will not be effective until the fungicide is moved into the root zone by rainfall or irrigation. |
| Restrictions | | |
| <ul style="list-style-type: none"> ◆ Maximum single application rate: 2 pt/A (equivalent to 1 lb mefenoxam ai/A) ◆ Minimum application interval: N/A ◆ Maximum annual application rate: 2 pt/A (equivalent to 1 lb mefenoxam ai/A) <ul style="list-style-type: none"> ▫ Do not exceed 1 lb ai/A/year of mefenoxam- and metalaxyl-containing products ◆ Pre-harvest interval (PHI): 200 days | | |

| ASPARAGUS | | |
|---|---------------------------------|---|
| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
| Crown Rot Spear Rot (<i>Phytophthora</i> spp.) | 1 pt/A (0.5) | Apply as a broadcast or banded spray to soil. Cutting Beds: Apply 30 to 60 days before first cutting. For additional control, make another application just before the beginning of harvest. New Plantings: Apply after planting seedlings or after covering one-year old crowns. Soil surface sprays of this product will not be effective until the fungicide is moved into the root zone by rainfall or irrigation. |
| Restrictions | | |
| <ul style="list-style-type: none"> ◆ Maximum single application rate: 1 pt/A (equivalent to 0.5 lb mefenoxam ai/A) ◆ Minimum application interval: 30 days ◆ Maximum annual application rate: 2 pt/A (equivalent to 1 lb mefenoxam ai/A) <ul style="list-style-type: none"> ▫ Do not exceed 1 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products ◆ Pre-harvest interval (PHI): 1 day | | |

| AVOCADOS | | |
|---|---|--|
| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
| Root Rot (<i>Phytophthora cinnamomi</i>) | 0.25 fl oz in 18 gal water (0.008) | Sleeve Drench: At transplanting, drench the roots inside the sleeve with 1 quart of solution per tree. The sleeve drench will not replace other soil applications for long-term control of root rot. |
| | 2 to 4 pt/A (1 to 2) or 0.5 to 1 fl oz per 1,000 gal water (3.9 - 7.8 ppm) | Injection (drip irrigation): Inject into the irrigation water. Time applications to occur at the start of the growing season or at transplanting and as soon as <i>Phytophthora</i> is detected in soils. Make up to two additional applications at 3-month intervals if needed. No treatment is required during the months of November through February. |
| | 1 to 4 pt/A (0.5 to 2) | Soil Spray: Apply to the soil under the drip emitter. Irrigate to incorporate residues into the soil. If there is more than one emitter per tree, distribute the total amount of product needed among the emitters. See below for application timing and rates. Sprinkler Irrigation: Apply the specified amount of product to the soil directly under the tree canopy or via the irrigation system (drip, micro-emitter, sprinkler). See application timing and rates below. Application Timing and Rate for Soil Spray and Sprinkler Irrigation: Time applications to begin at the start of the growing season or at transplanting or as soon as <i>Phytophthora</i> is detected in soils. Make up to two additional applications at 3-month intervals if needed. No treatment is required during the months of November through February. Increase the application rate as the canopy diameter increases. For trees with a canopy diameter of 2 ft, use 1 pt/A. For trees with a canopy diameter of 15 ft or more, use 4 pt/A. |
| <p>Precautions</p> <ul style="list-style-type: none"> ◆ For best results, use this product as soon as soil tests indicate the presence of <i>Phytophthora</i>. ◆ For new plantings, use <i>Phytophthora</i>-resistant rootstocks. ◆ Mature trees in moderate to advanced stages of decline cannot be cured with this product. <p>Restrictions</p> <ul style="list-style-type: none"> ◆ Maximum single application rate: 4 pt/A (equivalent to 2 lb mefenoxam ai/A) ◆ Minimum application interval: 90 days ◆ Maximum annual application rate: 12 pt/A (equivalent to 6 lb mefenoxam ai/A) <ul style="list-style-type: none"> ▫ Do not exceed 6 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products ◆ Pre-harvest interval (PHI): 28 days | | |

BERRY AND SMALL FRUIT

BUSHBERRY SUBGROUP (13-07B):

Aronia Berry, Buffalo Currant, Blueberries (highbush and lowbush), Chilean Guava, Cranberry (highbush), Currant (black and red), Elderberry, European Barberry, Gooseberry, Honeysuckle (edible), Huckleberry, Jostaberry, Juneberry, Lingonberry, Native Current, Salal, Sea Buckthorn, Cultivars, Varieties, and/or Hybrids of these

| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
|---|-----------------------------|---|
| Root Rot (<i>Phytophthora</i> spp.) | 3.6 pt/A (1.8) | <p>Soil Application (broadcast, band or drip/micro-sprinkler irrigation)</p> <p>New Plantings: Make one application at planting. For band applications, use an 18-inch band.</p> <p>Soil surface sprays of this product will not be effective until the fungicide is moved into the root zone by rainfall or irrigation.</p> |
| | 3.6 pt/A (1.8) | <p>Soil Application (band or drip/micro-sprinkler irrigation)</p> <p>New Plantings: After the initial at-planting application, make one additional application during a period favorable for root rot development.</p> <p>Established Plantings: Apply before plant growth starts in the spring. Make a soil-directed application towards the base of the plants in a 3-foot band over the row or via drip/micro-sprinkler irrigation. Make one additional application, if needed, when conditions are favorable for root rot development.</p> <p>Soil surface sprays of this product will not be effective until the fungicide is moved into the root zone by rainfall or irrigation.</p> |

Precautions

- ♦ Use this product in conjunction with good cultural practices for optimum disease control.
- ♦ This product will not revitalize plants showing moderate to severe root rot symptoms.

Restrictions

- ♦ Maximum single application rate: 3.6 pt/A (equivalent to 1.8 lb mefenoxam ai/A)
- ♦ Minimum application interval: 90 days
- ♦ Maximum annual application rate: 7.2 pt/A (equivalent to 3.6 lb mefenoxam ai/A)
 - Do not exceed 3.6 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products
- ♦ Pre-harvest interval (PHI): 0 days

CANE BERRY SUBGROUP (13-07A):

Blackberry (including Andean blackberry, arctic blackberry, bingleberry, black satin berry, boysenberry, brombeere, California blackberry, Chesterberry, Cherokee blackberry, Cheyenne blackberry, common blackberry, coryberry, darrowberry, dewberry, Dirksen thornless berry, evergreen blackberry, Himalayaberry, hullberry, lavacaberry, lowberry, Lucretiaberry, mammoth blackberry, marionberry, mora, mures deronce, nectarberry, Northern dewberry, olallieberry, Oregon evergreen berry, phenomenalberry, rangeberry, ravenberry, rossberry, Shawnee blackberry, Southern dewberry, tayberry, youngberry, zarzamora); **Loganberry; Raspberry (black and red); Wild Raspberry; and Cultivars, Varieties, and/or Hybrids of these**

| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
|---|-----------------------------|--|
| Root Rot (<i>Phytophthora</i> spp.) | 3.6 pt/A (1.8) | <p>Soil Application (broadcast, band or drip/micro-sprinkler irrigation)</p> <p>New Plantings: Make one application at planting. For band applications, use an 18-inch band.</p> <p>Soil surface sprays of this product will not be effective until the fungicide is moved into the root zone by rainfall or irrigation</p> |
| | 3.6 pt/A (1.8) | <p>Soil Application (band or drip/micro-sprinkler irrigation)</p> <p>New Plantings: After the initial at-planting application, make one additional application during a period favorable for root rot development.</p> <p>Established Plantings: Before plant growth starts in the spring, apply to the soil surface towards the base of the plant in a 3-foot band over the row or via drip/micro-sprinkler irrigation. Make one additional application, if needed, during the period most favorable for root rot development.</p> <p>Soil surface sprays of this product will not be effective until the fungicide is moved into the root zone by rainfall or irrigation.</p> |

Precautions

- ◆ Do not use an adjuvant unless it has been tested for compatibility and crop safety.
- ◆ Use this product in conjunction with good cultural practices for optimum disease control.
- ◆ This product will not revitalize plants showing moderate to severe root rot symptoms.

Restrictions

- ◆ Maximum single application rate: 3.6 pt/A (equivalent to 1.8 lb mefenoxam ai/A)
- ◆ Minimum application interval: 90 days
- ◆ Maximum annual application rate: 7.2 pt/A (equivalent to 3.6 lb mefenoxam ai/A)
 - Do not exceed 3.6 lb ai/A/year of soil-applied and 0.2 lb ai/A/year of foliar-applied mefenoxam- and metalaxyl-containing products
- ◆ Pre-harvest interval (PHI): 45 days

CRANBERRIES

| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
|--|--------------------------------|---|
| Phytophthora Root Rot (<i>Phytophthora</i> spp.) | 1 to 1.75 pt/A (0.5 to 0.9) | <p>Soil Spray (broadcast): Apply 3 times using ground or chemigation equipment. Make the first application in the fall after harvest, then in the spring with a final application up to, but not later than, 45 days prior to harvest.</p> <p>Soil surface sprays of this product will not be effective until the fungicide is moved into the root zone by rainfall or irrigation.</p> |

- Restrictions**
- ♦ Do not apply by air.
 - ♦ Maximum single application rate: 1.75 pt/A (equivalent to 0.9 lb mefenoxam ai/A)
 - ♦ Minimum application interval: 90 days
 - ♦ Maximum annual application rate: 5.25 pt/A (equivalent to 2.65 lb mefenoxam ai/A)
 - Do not exceed 2.65 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products
 - ♦ Pre-harvest interval (PHI): 45 days

SMALL FRUIT VINE CLIMBING SUBGROUP, EXCEPT GRAPE (13-07E)[*]

Amur river grape, Gooseberry, Kiwifruit (fuzzy and hardy), Maypop, Schisandra berry, Cultivars, Varieties, and/or Hybrids of these

| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
|---|--|--|
| Root and Crown Rot (<i>Pythium</i> and <i>Phytophthora</i> spp.) | Drench Solution 5.6 to 11.2 fl oz/A in 40 gal of water (0.18 to 0.35) | <p>Soil Drench: Apply 1 quart of solution as a soil drench in a one square foot area around the base of each vine. 40 Gallons of drench solution will treat 160 vines per acre.</p> <p>Make the first application in the fall after harvest or in February to early March. Make a second application in the spring or approximately 60 days after the February-early March application. Move into soil as described in the APPLICATION INSTRUCTIONS section of the label.</p> |
| | 11.2 fl oz/A (0.35) | <p>Soil spray (band): Make up to 5 applications as a soil spray in a 2- to 3-foot band on each side of the row.</p> <p>Begin applications in April and follow with two additional applications at 30-day intervals. Make the fourth application in September and the fifth application approximately 30 days later, which must be at least 7 days before harvest.</p> |

- Restrictions**
- ♦ Maximum single application rate: 11.2 fl oz/A (equivalent to 0.35 lb mefenoxam ai/A)
 - ♦ Minimum application interval: 30 days
 - ♦ Maximum annual application rate: 3.5 pt/A (equivalent to 1.75 lb mefenoxam ai/A)
 - Do not exceed 1.75 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products
 - ♦ Pre-harvest interval (PHI): 7 days
- [*Not for use in California Except on Kiwifruit]

| STRAWBERRIES | | |
|---|-------------------------------------|---|
| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
| Red Stele <i>(Phytophthora fragariae)</i> Vascular Collapse <i>(P. cactorum)</i> Leather Rot <i>(P. cactorum)</i> | 1 pt/A (0.5) | <p>Annual Plantings: Apply by ground (banded sprays), drip irrigation, or overhead chemigation up to 3 times per crop/year:</p> <ul style="list-style-type: none"> • First application after transplanting. • Second application 30 days before the beginning of harvest or at fruit set • Third application during harvest, if needed, depending on environmental conditions and disease pressure. <p><u>For drip irrigation</u>, calculate the use rate as a band application with a band width equal to the root zone width and inject this product into the irrigation water.</p> <p>Established Plantings: Apply by ground (banded sprays), drip irrigation, or overhead chemigation up to 3 times per crop/year:</p> <ul style="list-style-type: none"> • First application in the spring after the ground thaws and before first bloom. • Second application after harvest in the fall. • For control of crown/leather rot, make an additional application during the growing season at fruit set. <p><u>For drip irrigation</u>, calculate the use rate as a band application with a band width equal to the root zone width and inject this product into the irrigation water.</p> |
| <p>Precautions</p> <ul style="list-style-type: none"> ♦ For low annual rainfall areas, surface applications of this product need to be moved into the root zone by rainfall, overhead irrigation, or mechanical incorporation. <p>Restrictions</p> <ul style="list-style-type: none"> ♦ Maximum single application rate: 1 pt/A (equivalent to 0.5 lb mefenoxam ai/A) ♦ Minimum application interval: 30 days ♦ Maximum annual application rate: 3 pt/A (equivalent to 1.5 lb mefenoxam ai/A) <ul style="list-style-type: none"> ▫ Do not exceed 1.5 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products ♦ Do not make more than 3 applications per crop ♦ Pre-harvest interval (PHI): 0 days | | |
| STRAWBERRY PLANT PRODUCTION IN FIELD NURSERIES | | |
| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
| Red Stele <i>(Phytophthora fragariae)</i> Vascular Collapse <i>(P. cactorum)</i> Leather Rot <i>(P. cactorum)</i> | 1 pt/A (0.5) | <p>Field Nurseries: Apply to young plants in field nurseries by ground, drip, or overhead chemigation.</p> <p><u>For drip irrigation</u>, calculate the use rate as a band application with a band width equal to the root zone width and inject this product into the irrigation water.</p> |

Restrictions

- ◆ Do not use in strawberry field nurseries east of the Rocky Mountains
- ◆ Maximum single application rate: 1 pt/A (equivalent to 0.5 lb mefenoxam ai/A)
- ◆ Minimum application interval: 30 days
- ◆ Maximum annual application rate: 2 pt/A (equivalent to 1 lb mefenoxam ai/A)
 - Do not exceed 1 lb ai/A per plant production cycle of soil-applied mefenoxam- and metalaxyl-containing products
- ◆ Pre-harvest interval (PHI): N/A

BRASSICA (COLE) LEAFY VEGETABLES, Crop Group 5: Broccoli, Broccoli raab (rapini), Brussels sprouts, Cabbage, Chinese broccoli (gai lon), Chinese cabbage (bok choy and napa), Chinese mustard cabbage (gai choy), Cauliflower, Cavalo broccolo, Collards, Kale, Kohlrabi, Mizuna, Mustard greens, Mustard spinach, , Rape greens, all hybrids and varieties of these.

And TURNIP GREENS (greens only)

| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
|--|---------------------------------------|---|
| Damping-off (<i>Pythium</i> spp.) | 0.25 to 0.5 pt/A (0.125 to 0.25) | Preplant Incorporated (broadcast or band): Apply in sufficient water or liquid fertilizer to provide uniform coverage and incorporate into the top 2 inches of soil. For banded applications, use a 7-inch band. |
| Basal Stem Rot (<i>Phytophthora</i> spp.) | 1 to 2 pt/A (0.5 to 1) | <p>Preplant Incorporated (broadcast or band): Apply in sufficient water or liquid fertilizer to provide uniform coverage and incorporate into the top 2 inches of soil. For banded applications, use a 7-inch band.</p> <p>Soil Spray (broadcast or band): Apply at planting in sufficient water or liquid fertilizer to provide uniform coverage. For banded application, use a 7-inch band.</p> <p>Soil surface sprays of this product will not be effective until the fungicide is moved into the root zone by rainfall or irrigation.</p> <p>Injection (drip irrigation): Inject this product into the irrigation water at planting.</p> |
| Downy Mildew (<i>Peronospora parasitica</i>) | 0.125 to 0.25 pt/A (0.06 to 0.125) | <p>Foliar Application (ground or air): Use only in a tank mixture with other fungicides registered for control of downy mildew on cole crops. Apply with the full label rate of the tank mix partner fungicide.</p> <p>Begin applications when conditions are favorable for disease development but before infection is established. Continue applications at 14-day intervals.</p> |

Restrictions

- ◆ Use this product for foliar applications only when included in a tank mixture with another EPA registered fungicide.
- ◆ Do not apply this product in fields where downy mildew is already established
- ◆ Do not apply to dual purpose turnip cultivars or varieties which produce a harvestable root. Refer to the ROOT AND TUBER VEGETABLES section for use on turnip (root).
- ◆ Maximum single application rate:
 - Soil:** 2 pt/A (equivalent to 1 lb mefenoxam ai/A)
 - Foliar:** 0.25 pt/A (equivalent to 0.125 lb mefenoxam ai/A)
- ◆ Minimum application interval: 14 days
- ◆ Maximum annual application rate: .
 - Soil:** 2 pt/A (equivalent to 1 lb mefenoxam ai/A)
 - Foliar:** 1 pt/A (equivalent to 0.5 lb mefenoxam ai/A)
 - Do not exceed 1 lb ai/A/year of soil-applied and 0.5 lb ai/A/year of foliar-applied mefenoxam-

and metalaxyl-containing products
 ♦ Pre-harvest interval (PHI): 7 days

| CACAO[*] | | |
|---|-------------------------------------|--|
| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
| Black Pod Rot (<i>Phytophthora</i> spp.) | 0.32 fl oz/A (0.01) | Apply as a foliar/pod spray in a tank mixture with a copper fungicide. Make the first application before disease development. Repeat at 21-day intervals, with a maximum of 4 applications per year. Make no more than 2 consecutive applications of this product or other Group 4 fungicide before alternating with a fungicide from a different mode of action group. Apply in sufficient water to obtain thorough coverage of the canopy and developing pods. |
| Restrictions ♦ Maximum single application rate: 0.32 fl oz/A (equivalent to 0.01 lb mefenoxam ai/A) ♦ Minimum application interval: 21 days ♦ Maximum annual application rate: 1.28 fl oz/A (equivalent to 0.04 lb mefenoxam ani/A) ▫ Do not exceed 0.04 lb ai/A/year of mefenoxam- and metalaxyl-containing products ♦ Pre-harvest interval (PHI): 30 days [*Not for use in California] | | |

| CITRUS FRUIT, Crop Group 10: Calamondin, Citrus citron, Citrus hybrids (including chironja, tangelo, tangor), Grapefruit, Kumquat, Lemon, Lime, Mandarin (tangerine), Orange (sour and sweet), Pummelo, Satsuma mandarin | | |
|---|--|--|
| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
| Brown Rot Citrus Foot Rot Gummosis Root Rot Trunk Canker (<i>Phytophthora</i> spp.) | Broadcast 2 pt/A (1) Chemigation 0.5 pt/grove acre (0.25) California only: Broadcast 2 to 4 pt/A (1 to 2) California only: Chemigation 0.5 to 1 pt/grove acre (0.25 to 0.5) | Resets or New Plantings: Make the first application at planting. Make a total of 2 to 3 applications per year according to one of the following schedules: (1) spring & summer, (2) summer & fall, or (3) spring & summer & fall. Broadcast Spray: Apply to soil surface beneath the tree canopy in sufficient water to obtain uniform coverage. If rain is not expected within 24 hours after application, sprinkler irrigate with 1/2 to 1 inch of water to move product into root zone. Chemigation: Apply through irrigation water (micro-sprinkler or drip). |
| | Drench Solution 1 to 1.5 fl oz / 100 gal water (0.03 to 0.05) | Water Ring Drench: Apply 5 gallons of the drench solution around the base of each tree within the watering ring of resets or new plantings. Follow treatment schedule above for Resets or New Plantings. |

| | | |
|----------|---|---|
| | <p>Newly planted trees to 6 months 0.5 fl oz/20 trees (0.015)</p> <p>Trees > 6 months 1 to 1.5 fl oz/20 trees (0.03 to 0.05)</p> | <p>Individual Tree Treatment for Resets/New Plantings: Mix desired amount of product in water. Apply the solution as a directed spray to individual trees (approximately 8 to 12 fl oz of solution/tree) around the base of the tree and outwards to cover the fibrous root system. Follow with sprinkler irrigation to move product into the root zone.</p> <p>This product may be tank mixed with other pesticides registered for use on citrus.</p> <p>Follow treatment schedule above for Resets or New Plantings.</p> |
| | <p>Broadcast 1 to 2 pt/A (0.5 to 1)</p> <p>Chemigation 0.5 to 1 pt/grove acre (0.25 to 0.5)</p> <p>California only: Broadcast 1 to 6 pt/A (0.5 to 3)</p> | <p>Established Plantings Begin applications in the spring at root flush. Make up to two more applications when root growth flushes occur. Apply according to one of the following schedules: (1) spring & summer, (2) summer & fall, or (3) spring & summer & fall.</p> <p>Broadcast Spray: Apply to the soil surface beneath the tree canopy in sufficient water to obtain uniform coverage. If rain is not expected within 24 hours after application, sprinkler irrigate with ½ inch to 1 inch of water to move product into root zone.</p> <p>Chemigation: Apply through irrigation water (micro-sprinkler or drip).</p> |
| Gummosis | <p>2 pt in 3 gal water (1)</p> <p>Florida only 2 pt in 10 gal water (1)</p> | <p>Trunk Spray: Spray the surface of the trunks using enough spray to thoroughly wet the cankers. Apply up to 3 times per year.</p> |

Precautions

- ♦ For best *Phytophthora* control, implement a combination of cultural practices that include the use of fungicides with different modes of action and less *Phytophthora* susceptible citrus varieties.
- ♦ Consult local extension bulletins for additional use directions.
- ♦ Do not apply to citrus in field or greenhouse nurseries for more effective resistance management.
- ♦ In Florida, Texas and Puerto Rico, phytotoxicity to citrus resets or new plantings (plants less than 5 years old) may be prevented by using rates no higher than 2 pt/A.
- ♦ Do not use on highly *Phytophthora* susceptible sweet orange rootstock in Florida.
- ♦ Do not apply tank mixes of residual herbicides and this product to trees less than 3 years old. Apply the herbicide first; then apply this product 3 to 4 weeks later.

Restrictions

- ♦ Do not apply to bare roots.
- ♦ Do not make trunk gummosis sprays and soil applications to the same tree in the same cropping season.
- ♦ Maximum single application rate: 6 pt/A (equivalent to 3 lb mefenoxam ai/A)
- ♦ Minimum application interval: 90 days
- ♦ Maximum annual application rate: 12 pt/A (equivalent to 6 lb mefenoxam ai/A)
 - Do not exceed 6 lb ai/A/year of mefenoxam- and metalaxyl-containing products
- ♦ Pre-harvest interval (PHI): 0 days

| CLOVER | | |
|---|-------------------------------------|--|
| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
| Damping-off (<i>Pythium</i> spp.) Root Rot (<i>Phytophthora</i> spp.) | 0.25 to 0.5 pt/A (0.125 to 0.25) | Soil Spray (broadcast): Apply as a broadcast soil surface spray at planting. If seed was previously treated with a mefenoxam or metalaxyl seed treatment product, use the 0.25 pt/A rate at planting. Soil surface sprays of this product will not be effective until the fungicide is moved into the root zone by rainfall or irrigation. |
| Restrictions <ul style="list-style-type: none"> ◆ Do not feed green forage or cut hay within 90 days of application ◆ Maximum single application rate: 0.5 pt/A (equivalent to 0.25 lb mefenoxam ai/A) ◆ Minimum application interval: N/A ◆ Maximum annual application rate: 0.5 pt/A (equivalent to 0.25 lb mefenoxam ai/A) <ul style="list-style-type: none"> ▫ Do not exceed 0.25 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products ◆ Pre-harvest interval (PHI): 90 days | | |

| COTTON | | |
|---|---|---|
| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
| Seed and Root Rot (<i>Pythium ultimum</i>) Seedling Blight (<i>Pythium aphanidermatum</i>) | 0.075 to 0.15 fl oz / 1,000 row ft Equivalent to 1.1 to 2.0 fl oz/A (0.03 to 0.0625) for 38-inch row spacing | In-furrow: Apply in 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. |
| Restrictions <ul style="list-style-type: none"> ◆ Maximum single application rate: 0.15 fl oz/1,000 row ft, corresponding to (a) 2 fl oz/A for 38-inch row spacing (equivalent to 0.0625 lb mefenoxam ai/A) or (b) 3.9 fl oz/A for 20-inch row spacing (equivalent to 0.12 lb mefenoxam ai/A) ◆ Minimum application interval: N/A ◆ Maximum annual application rate: 0.15 fl oz/1,000 row ft, corresponding to 3.9 fl oz/A for 20-inch row spacing (equivalent to 0.12 lb mefenoxam ai/A) <ul style="list-style-type: none"> ▫ Do not exceed 0.12 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products (assumes 20" row spacing) ◆ Pre-harvest Interval (PHI): N/A | | |

CUCURBIT VEGETABLES, Crop Group 9: Chayote, Chinese waxgourd, citron melon, cucumber, gherkin, gourd (edible), *Momordica* spp. (balsam apple, balsam pear, bittermelon, Chinese cucumber), muskmelon (true cantaloupe, cantaloupe, casaba; crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon), pumpkin, summer squash, winter squash, watermelon, all hybrids and varieties of these

| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
|--|--|--|
| <p>Damping-off (<i>Pythium</i> spp.)</p> <p><u>Suppression:</u> Phytophthora Blight (<i>Phytophthora capsici</i>)</p> | <p>1 to 2 pt/A (0.5 to 1)</p> | <p>Pre-plant Incorporated (broadcast or band): Apply in sufficient water or liquid fertilizer to provide uniform coverage and incorporate in the top 2 inches of soil. For banded application, use a 7-inch band.</p> <p>Soil Spray (broadcast or band): Apply at planting in sufficient water or liquid fertilizer to provide uniform coverage. Soil surface sprays of this product will not be effective until the fungicide is moved into the root zone by rainfall or irrigation. For banded application, use a 7-inch band.</p> <p>Injection (drip irrigation): Inject into the irrigation water at planting.</p> |
| <p><u>Suppression:</u> Phytophthora Blight (<i>Phytophthora capsici</i>)</p> | <p>4 to 8 fl oz /A in 100 to 200 gal water (0.125 to 0.25)</p> | <p>Transplant Water or Drench[*] Apply in transplant water or immediately following planting as a soil drench. Apply in a minimum of 100 gallons of water per acre. In fields with a history of <i>Phytophthora capsici</i>, follow with a drip application at the rate of 4 to 8 fl oz/A 14 to 21 days after transplanting.</p> <p><u>Note:</u> There is a risk of plant injury with transplant water application:</p> <ul style="list-style-type: none"> ▪ Crop injury is more likely when applied in less than 100 gallons/A. Injury is temporary and is expected to disappear within three weeks. ▪ Pre-mixing this product in a tank separate from the transplant water source tank helps to prevent incompatibility with fertilizers or other pesticides in the transplant water solution. <p>[* Not for use in California]</p> |
| <p>Root Rot (<i>Pythium</i> spp.)</p> <p><u>Suppression:</u> Phytophthora Blight (<i>Phytophthora capsici</i>)</p> | <p>0.25 to 0.4 pt/A (0.125 to 0.2)</p> | <p>Soil Directed Spray: If a soil application was made at planting, two additional applications may be made at 20 to 30 day intervals during the season. Direct the spray to the base of the plants and cover 6-8 inches of the soil around the plants. Incorporate mechanically or sprinkler irrigate to move the product into the root zone.</p> <p>Injection (drip): Inject into the irrigation water.</p> |
| <p>Restrictions</p> <ul style="list-style-type: none"> ♦ Maximum single application rate: 2 pt/A (equivalent to 1 lb mefenoxam ai/A) ♦ Minimum application interval: 20 days [14 days for transplant water or drench] ♦ Maximum annual application rate: <ul style="list-style-type: none"> Soil: 2 pt/A (equivalent of 1 lb mefenoxam ai/A) Foliar: 0.8 pt/A (equivalent of 0.4 lb mefenoxam ai/A) <ul style="list-style-type: none"> ▪ Do not exceed 1 lb ai/A/year of soil-applied and 0.5 lb ai/A/year of foliar-applied mefenoxam- and metalaxyl-containing products ♦ Pre-harvest interval (PHI): 5 days | | |

FRUITING VEGETABLES, Crop Group 8

FRUITING VEGETABLES, Crop Group 8, Except TOMATO

Eggplant, Groundcherry, Pepino, Pepper (bell pepper, chili pepper, cooking pepper, pimento, sweet pepper), Tomatillo

| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
|--|--|---|
| <p>Damping-off (<i>Pythium</i> spp.)</p> <p><u>Suppression:</u> Crown Rot (<i>Phytophthora capsici</i>)</p> | <p>1 pt/A (0.5)</p> | <p>For 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.</p> <p>For direct seeded peppers, apply preplant or prior to emergence.</p> <p>Soil Spray (broadcast or band): Apply in water or liquid fertilizer preplant or at planting.</p> <p>For banded applications, use a 12- to 16-inch band. Soil surface sprays of this product will not be effective until the fungicide is moved into the root zone by rainfall or irrigation.</p> <p>Injection (drip irrigation): Inject this product into the irrigation water preplant or at planting.</p> <p>Following the initial application at planting, make up to 2 additional applications at 30-day intervals.</p> |
| <p><u>Suppression:</u> Crown Rot (<i>Phytophthora capsici</i>)</p> | <p>4 to 8 fl oz /A in 100 to 200 gal water</p> <p>0.25 to 0.5 pt/A (0.125 to 0.25)</p> | <p>Transplant Water or Drench[*]: Apply in transplant water or immediately following planting as a soil drench. Apply in a minimum of 100 gallons of water.</p> <p>In fields with a history of <i>Phytophthora capsici</i>, follow with a drip application at the rate of 4 to 8 fl oz/A 14 to 21 days after transplanting.</p> <p><u>Note:</u> There is a risk of plant injury with transplant water application:</p> <ul style="list-style-type: none"> ▪ Crop injury is more likely when applied in less than 100 gallons/A. Injury is temporary and is expected to disappear within three weeks. ▪ Pre-mixing this product in a tank separate from the transplant water source tank helps to prevent incompatibility with fertilizers or other pesticides in the transplant water solution. <p>[* Not for use in California]</p> |
| <p>Crown Rot (<i>Phytophthora capsici</i>)</p> | <p>1 pt/A (0.5)</p> | <p>Make 2 post-directed applications at 30-day intervals after transplanting.</p> <p>Banded Spray: Direct the spray to the base of the plants and cover 6 to 8 inches of the soil around the plants. Incorporate mechanically or sprinkler-irrigate to move the product into the root zone.</p> <p>Shank Application: Apply in liquid fertilizer, shanked in as a banded treatment to either side of the plant.</p> <p>Injection (drip irrigation): Inject this product into the irrigation water.</p> |
| <p>Precautions</p> <ul style="list-style-type: none"> ♦ This product may cause some yellowing of pepper leaves. ♦ Apply before the plants are infected to obtain satisfactory control. Plants already infected with <i>Phytophthora capsici</i> cannot be cured with this product. ♦ The foliar blight phase of <i>Phytophthora</i> cannot be controlled with foliar applications of this product. | | |

Restrictions

- ◆ Maximum single application rate: 1 pt/A (equivalent to 0.5 lb mefenoxam ai/A)
- ◆ Minimum application interval: 30 days [14 days for transplant water or drench]
- ◆ Maximum annual application rate: 3 pt/A (equivalent of 1.5 lb mefenoxam ai/A)
 - Do not exceed 1.5 lb ai/A/year of soil-applied and 0.5 lb ai/A/year of foliar-applied mefenoxam- and metalaxyl-containing products
- ◆ Pre-harvest interval (PHI): 7 days

TOMATO

| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
|---|-----------------------------|---|
| Damping-off (<i>Pythium</i> spp.) | 1 to 2 pt/A (0.5 to 1) | <p>Soil Spray (broadcast or band): Apply at planting in water or liquid fertilizer. Move into soil as described in the APPLICATION INSTRUCTIONS section of the label.</p> <p>For banded applications, use a 7-inch band.</p> |
| Root and Fruit Rot (<i>Phytophthora</i> spp.) (<i>Pythium</i> spp.) | 1 pt/A (0.5) | <p>Injection (drip irrigation): Initiate control of Root and Fruit Rot with a soil application as described above. Make subsequent applications through drip irrigation.</p> <p>Make the first drip application 4 to 6 weeks after planting. Make a second drip application as needed, up to 1 week before harvest.</p> <p>For injection applications, base rate calculations on a 7-inch band.</p> <p>Soil Spray (Broadcast or Band) or soil injection: Apply as a directed soil surface spray under the vines or injected into the beds with water or liquid fertilizer. Move into the soil as described in the APPLICATION INSTRUCTIONS section of this label.</p> <p>Apply 4 to 6 weeks after planting. If needed, make a second application up to 1 week before harvest.</p> |

Restrictions

- ◆ Maximum single application rate: 2 pt/A (equivalent to 1 lb mefenoxam ai/A)
- ◆ Minimum application interval: 28 days
- ◆ Maximum annual application rate: 3 pt/A (equivalent of 1.5 lb mefenoxam ai/A)
 - Do not exceed 1.5 lb ai/A/year of soil-applied and 0.5 lb ai/A/year of foliar-applied mefenoxam- and metalaxyl-containing products
- ◆ Pre-harvest interval (PHI): 7 days

| GRAPES | | |
|---|---|--|
| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
| Root Rot Crown Rot (<i>Phytophthora</i> spp.) | 3.6 pt/A (1.8) or 0.25 pt / 1,000 row ft | Soil Spray (broadcast or band): Apply in the spring before the plants begin to grow. Use sufficient water to provide uniform coverage. Make two additional applications, if needed, at 3-month intervals during periods most favorable for root rot development. For banded applications, apply in a 3-foot band at the base of the plants. Calculate the correct amount of product based on 3.6 pt/A using the formula in the APPLICATION INSTRUCTIONS section of this label. |
| | 0.5 to 1 fl oz / 1,000 gal of water or 4 fl oz (0.25 pt) / 100 linear feet of row | Drip Irrigation: Inject into the irrigation water at transplanting or at the beginning of the growing season (bud break). If needed, make two additional applications at 3-month intervals. Applications are not needed during the winter dormancy period. |
| Restrictions <ul style="list-style-type: none"> ◆ Maximum single application rate: 3.6 pt/A (equivalent to 1.8 lb mefenoxam ai/A) ◆ Minimum application interval: 90 days ◆ Maximum annual application rate: 10.8 pt/A (equivalent to 5.4 lb mefenoxam ai/A) <ul style="list-style-type: none"> ▫ Do not exceed 5.4 lb ai/A/year of soil-applied and 0.4 lb ai/A/year of foliar-applied mefenoxam- and metalaxyl-containing products ◆ Pre-harvest interval (PHI): 60 days | | |

| GRASS FORAGE, FODDER, and HAY, Crop Group 17* | | |
|--|-------------------------------------|---|
| *Includes any enclosed pasture grasses or grasses grown for hay or silage such as Bermudagrass, bluegrass, bromegrass, or fescue. | | |
| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
| Seedling Diseases (<i>Pythium</i> spp.) | 0.25 to 1 pt/A (0.13 to 0.5) | Soil Spray (broadcast): Apply at planting. Use 0.25 to 0.5 pt/A if grass seed was previously treated with a mefenoxam or metalaxyl seed treatment product. Soil surface sprays of this product will not be effective until the fungicide is moved into the root zone by rainfall or irrigation. |
| Restrictions <ul style="list-style-type: none"> ◆ Do not apply to range grasses ◆ Do not graze, feed green forage, or cut for hay within 60 days of last application ◆ Maximum single application rate: 1 pt/A (equivalent to 0.5 lb mefenoxam ai/A) ◆ Minimum application interval: N/A ◆ Maximum annual application rate: 1 pt/A (equivalent 0.5 lb mefenoxam ai/A) <ul style="list-style-type: none"> ▫ Do not exceed 0.5 lb ai/A/year of mefenoxam- and metalaxyl-containing products ◆ Pre-harvest interval (PHI): 60 days | | |

HERBS (Fresh and Dried), Crop Subgroup 19A: Angelica, Balm, Basil, Borage, Burnet, Chamomile, Catnip, Chervil (dried), Chinese Chive, Chive, Cilantro (leaf), Clary, Coriander (leaf), Costmary, Curry (leaf), Dillweed, Horehound, Hyssop, Lavender, Lemongrass, Lovage (leaf), Marigold, Marjoram, Nasturtium, Parsley (dried), Pennyroyal, Rosemary, Rue, Sage, Savory (summer and winter), Sweet Bay, Tansy, Tarragon, Thyme, Wintergreen, Woodruff, Wormwood

| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
|---------------------------------------|-----------------------------|---|
| Damping-off (<i>Pythium</i> spp.) | 1 to 2 pt/A (0.5 to 1) | <p>Pre-plant Incorporated Application (broadcast or band): Apply in sufficient water or liquid fertilizer to provide uniform coverage and mechanically incorporate in the top 2 inches of soil. For banded application, use a 7-inch band.</p> <p>Soil Surface Application (broadcast or band): Apply in sufficient water or liquid fertilizer to provide uniform coverage. For banded application, use a 7-inch band.</p> <p>Soil surface sprays of this product will not be effective until the fungicide is moved into the root zone by rainfall or irrigation.</p> <p>Banded Spray: Direct sprays to baseline of plants covering 6-8 inches on each side of plants (12- to 16-inch band width/row). Apply 28 days after planting or after first cutting.</p> |

Restrictions

- ♦ Maximum single application rate: 2 pt/A (equivalent to 1 lb mefenoxam ai/A)
- ♦ Minimum application interval: 28 days
- ♦ Maximum annual application rate: 4 pt/A (equivalent to 2 lb mefenoxam ai/A)
 - Do not exceed 2 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products
- ♦ Pre-harvest interval (PHI): 21 days

HOPS

| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
|---|-----------------------------|--|
| Downy Mildew (<i>Pseudoperonospora humuli</i>) | 0.5 pt/A (0.25) | <p>Soil Application (drench or drip/micro-sprinkler irrigation): Apply as a drench in water or liquid fertilizer to the soil surface over the crowns after pruning but before training. Early application before shoots are 6 inches long provides best protection. May also be applied via drip/micro-sprinkler irrigation.</p> <p>Foliar Spray: Apply in combination with a contact copper fungicide labeled for use on hops using ground equipment in a minimum of 50 gallons water per acre.</p> <p>Treat at the first sign of secondary infection (when primary infection persists after a soil drench treatment and/or there is evidence of foliar infection).</p> |

Restrictions

- ♦ Do not apply foliar sprays of this product without a copper fungicide registered for use on hops
- ♦ Maximum single application rate: 0.5 pt/A (equivalent to 0.25 lb mefenoxam ai/A)
- ♦ Minimum application interval: 14 days
- ♦ Maximum annual application rate:
 - Soil: 0.5 pt/A (equivalent of 0.25 lb mefenoxam ai/A)
 - Foliar: 1 pt/A (equivalent of 0.5 lb mefenoxam ai/A)

HOPS

- Do not exceed 0.25 lb ai/A/year of soil-applied and 0.5 lb ai/A/year of foliar-applied mefenoxam- and metalaxyl-containing products
- ♦ Pre-harvest interval (PHI): 45 days

LEAFY VEGETABLES (Except *Brassica*), Crop Group 4: Amaranth (leafy amaranth, Chinese spinach, tampala), Arugula (Roquette), Cardoon, Celery, Celtuce, Chervil, Chinese Celery, Chrysanthemum (edible-leaved), Chrysanthemum (garland), Corn salad, Cress (garden), Cress (upland), Dandelion, Dock (Sorrel), Endive (Escarole), Florence Fennel (finocchio), Lettuce (head and leaf)**, Orach, Parsley, Purslane (garden), Purslane (winter), Radicchio (red chicory), Rhubarb, Spinach**, Spinach (New Zealand), Spinach (vine), Swiss Chard

****See also additional use instructions for Lettuce and Spinach below.**

| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
|------------------------------------|---|---|
| Damping-off (<i>Pythium</i> spp.) | 1 to 2 pt/A (0.5 to 1) | <p>Preplant Incorporated (broadcast or band): Apply as a soil application in sufficient water or liquid fertilizer to provide uniform coverage and mechanically incorporate in the top 2 inches of soil. For banded application, use a 7-inch band.</p> <p>Soil Surface Application (broadcast or band): Apply at planting in sufficient water or liquid fertilizer to provide uniform coverage. For banded application, use a 7-inch band. Soil surface sprays of this product will not be effective until the fungicide is moved into the root zone by rainfall or irrigation.</p> |
| | 4 to 8 fl oz/A in 100 to 200 gal water (0.13 to 0.25) | <p>Transplant Water or Soil Drench[*]: Apply in at least 100 gallons of transplant water per acre or immediately following planting as a drench.</p> <p><u>Note:</u> There is a risk of plant injury with transplant water application:</p> <ul style="list-style-type: none"> ▫ Crop injury is more likely when applied in less than 100 gallons/A. Injury is temporary and is expected to disappear within three weeks. ▫ Pre-mixing this product in a tank separate from the transplant water source tank will help to prevent incompatibility with fertilizers or other pesticides in the transplant water solution. <p>[*Not for use in California]</p> |
| | | |

LETTUCE (Head and Leaf) ONLY *

*See additional use instructions for lettuce under Leafy Vegetables (except *Brassica*), Crop Group 4

| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
|---|--------------------------------------|---|
| Downy Mildew (<i>Bremia lactucae</i>) | 0.125 to 0.25 pt/A (0.06 to 0.13) | <p>Foliar Application (ground or air): Apply only in a tank mixture with another fungicide registered for control of downy mildew. Apply with the full label rate of the tank mix partner fungicide.</p> <p>Apply at 14-day intervals beginning when conditions are favorable for disease development but before infection is established.</p> |

SPINACH ONLY*

*See additional use instructions for spinach under Leafy Vegetables (except *Brassica*), Crop Group 4

| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
|--|-----------------------------|--|
| White Rust (<i>Albugo occidentalis</i>) | 0.25 pt/A (0.13) | Shank Application: In addition to the preplant incorporated or surface application at planting described above for leafy vegetables, shank in this product 21 days after planting or after the first cutting. A second application may be shanked in after the next cutting, but at least 21 days after the last application. |
| Downy Mildew (<i>Peronospora effusa</i> , <i>Peronospora farinosa</i>) | | |

Restrictions

All Leafy Vegetables

- ♦ Maximum single application rate:
 - Soil:** 2 pt/A (equivalent to 1 lb mefenoxam ai/A)
 - Foliar – lettuce only:** 0.25 pt/A (equivalent to 0.125 lb mefenoxam ai/A)
- ♦ Minimum application interval: 14 days – lettuce only; 21 days – spinach only
- ♦ Maximum annual application rate:
 - Soil:** 2 pt/A (equivalent to 1 lb mefenoxam ai/A)
 - Foliar:** 0.8 pt/A (equivalent to 0.4 lb mefenoxam ai/A)
 - a) **For lettuce:** do not exceed 1 lb ai/A/year of soil-applied (pre-plant or at-planting) and 0.4 lb ai/A/year of foliar-applied mefenoxam- and metalaxyl-containing products
 - b) **For spinach: (A)** do not exceed 1 lb ai/A/year of soil-applied (preplant or at planting) mefenoxam- and metalaxyl-containing products and 0.25 lb ai/A/year of soil-applied post-planting, shanked-in applications of mefenoxam- and metalaxyl-containing products, **OR (B)** do not exceed the equivalent of 1 lb ai/A/year of soil-applied (preplant or at planting) mefenoxam- and metalaxyl-containing products and 0.4 lb ai/A/year of foliar-applied mefenoxam- and metalaxyl-containing products
- ♦ For all leafy vegetables, make no more than one soil application (preplant or at planting) per crop year
- ♦ For lettuce:
 - a) do not make more than 4 foliar applications per crop
 - b) Do not apply foliar sprays of this product without a labeled tank mix partner
 - c) Do not apply this product in fields where downy mildew is already established
- ♦ For spinach, a total of 2 shank applications may be made per crop year.
- ♦ Pre-harvest interval (PHI):
 - a) Leafy vegetables – except spinach: 7 days
 - b) Spinach: 3 days only if soil application does not exceed 1 lb ai/A/year and foliar application of mefenoxam-containing product does not exceed 0.25 lb mefenoxam ai/A/year. Otherwise, the PHI is 21 days for spinach

LEGUME VEGETABLES (Succulent or Dried), Crop Group 6, Except Soybeans:**

Bean (*Lupinus spp.*) (grain lupin, sweet lupin, white lupin, white sweet lupin), **Bean (*Phaseolus spp.*)** (field, kidney, lima, navy, pinto, runner, snap, tepary, wax), **Bean (*Vigna spp.*)** (adzuki, asparagus, blackeyed pea, catjang, Chinese longbean, cowpea, crowder pea, moth, mung, rice, southern pea, urd, yardlong), Broad Bean (fava bean), Chickpea (garbanzo bean), Guar, Jackbean, Lablab bean (hyacinth bean), Lentil, **Pea (*Pisum spp.*)** (dwarf, edible-pod, English, field, garden, green, snow, sugar snap), **Pigeon pea, Soybean (immature seed), Sword bean**

**See also additional use instructions for Succulent Shelled Peas and Beans below

| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
|--|--------------------------------|---|
| Damping-off Root Rot (<i>Pythium spp.</i>) | 0.5 to 1 pt/A (0.25 to 0.5) | Preplant Incorporated (broadcast or band): Apply to soil in sufficient water or liquid fertilizer to provide uniform coverage and mechanically incorporate in the top 2 inches of soil. For banded application, use a 7-inch band. |

| | | |
|--|--|---|
| | | <p>Soil Surface Application (broadcast or band): Apply to soil at planting in sufficient water or liquid fertilizer to provide uniform coverage.</p> <p>For banded application, use a 7-inch band.</p> <p>Soil surface sprays of this product will not be effective until the fungicide is moved into the root zone by rainfall or irrigation.</p> |
|--|--|---|

Restrictions

- ♦ Maximum single application rate: 1 pt/A (equivalent to 0.5 lb mefenoxam ai/A)
- ♦ Minimum application interval: N/A
- ♦ Maximum annual application rate: Soil - 1 pt/A (equivalent to 0.5 lb mefenoxam ai/A)
 - Do not exceed 0.5 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products
- ♦ Pre-harvest interval (PHI): N/A

SUCCULENT SHELLED PEAS and BEANS ONLY

Bean (Blackeyed pea, Broad bean, Cowpea, Lima bean, Southern pea);
Pea (English pea, garden pea, green pea); Pigeon pea

| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
|--|------------------------------------|---|
| Downy Mildew (<i>Phytophthora parasitica</i>) | 0.125 to 0.2 pt/A (0.06 to 0.1) | <p>Foliar Application (ground or air): Use only in a tank mixture with another fungicide registered for control of downy mildew. Apply with the full label rate of the tank mix partner fungicide.</p> <p>Apply at 14-day intervals when conditions are favorable for disease development but before infection is established.</p> |

Restrictions

- ♦ For use on succulent beans east of the Mississippi River only
- ♦ Maximum single application rate: 0.2 pt/A (equivalent to 0.1 lb mefenoxam ai/A)
- ♦ Minimum application interval: 14 days
- ♦ Maximum annual application rate:
 - Soil: 1 pt/A (equivalent to 0.5 lb mefenoxam ai/A)
 - Foliar: 0.8 pt/A (equivalent to 0.4 lb mefenoxam ai/A)
 - Do not exceed 0.5 lb ai/A/year of soil-applied and 0.4 lb ai/A/year of foliar-applied mefenoxam- and metalaxyl-containing products.
- ♦ Pre-harvest interval (PHI): 3 days

ONIONS:

Bulb Onion (Subgroup 3-07A): Daylily; Fritillaria; Garlic; Great-headed Garlic; Serpent Garlic; Lily; Onion; Chinese Onion; Pearl Onion; Potato Onion; Shallot; Cultivars, Varieties, and/or Hybrids of these

Green Onion (Subgroup 3-07B): Chive (fresh leaves); Chinese Chive (fresh leaves); Elegans Hosta; Fritillaria (leaves); Kurrat; Lady's Leek; Leek; Wild leek; Beltsville Bunching Onion; Fresh Onion; Green Onion; Macrostem Onion; Tree Onion (tops); Welsh Onion (tops); Shallot (fresh leaves); Cultivars, Varieties, and/or Hybrids of these

| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
|---------------------------------------|--------------------------------|---|
| Damping-off (<i>Pythium</i> spp.) | 0.5 to 1 pt/A (0.25 to 0.5) | <p>Preplant Incorporated (broadcast or band): Apply in sufficient water or liquid fertilizer to provide uniform coverage and mechanically incorporate in the top 2 inches of soil. For banded application, use a 7-inch band.</p> <p>Soil Surface Application (broadcast or band): Apply at planting in sufficient water or liquid fertilizer to provide uniform coverage. For banded application, use a 7-inch band.</p> |

| | | |
|---|--|--|
| | | Soil surface sprays of this product will not be effective until the fungicide is moved into the root zone by rainfall or irrigation. |
| Restrictions | | |
| <ul style="list-style-type: none"> ◆ Maximum single application rate: 1 pt/A (equivalent to 0.5 lb mefenoxam ai/A) ◆ Minimum application interval: N/A ◆ Maximum annual application rate: 1 pt/A (equivalent to 0.5 lb mefenoxam ai/A) <ul style="list-style-type: none"> a) Bulb onions: Do not exceed 1 lb ai/A/year of soil-applied and 0.5 lb ai/A/year of foliar-applied mefenoxam- and metalaxyl-containing products. b) Green onions: Do not exceed 1 lb ai/A/year of soil-applied and 0.3 lb ai/A/year of foliar-applied mefenoxam- and metalaxyl-containing products. ◆ Pre-harvest interval (PHI): N/A | | |

| PEANUTS | | |
|--|---------------------------------|--|
| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
| Pythium Root Rot (<i>Pythium</i> spp.) | 0.25 pt/A (0.13) | <p>In-Furrow Application: For seedling disease control, position the spray so the fungicide is mixed with the soil covering the seed. Avoid spraying the seed directly with the spray solution or crop injury may occur.</p> <p>Soil Surface Application (band): Apply in a 7-inch band over the row at planting. Soil surface sprays of this product will not be effective until the fungicide is moved into the root zone by rainfall or irrigation.</p> |
| Pod Rot (<i>Pythium</i> spp.) | 0.5 to 1 pt/A (0.25 to 0.5) | Apply at early pod set as a soil spray or at pegging as a foliar spray through overhead irrigation. |
| Restrictions | | |
| <ul style="list-style-type: none"> ◆ Maximum single application rate: 1 pt/A (equivalent to 0.5 lb mefenoxam ai/A) ◆ Minimum application interval: N/A ◆ Maximum annual application rate: <ul style="list-style-type: none"> Soil: 0.25 pt/A (equivalent to 0.13 lb mefenoxam ai/A) Foliar: 1 pt/A (equivalent to 0.5 lb mefenoxam ai/A) <ul style="list-style-type: none"> ▫ Do not exceed 0.13 lb ai/A/year of soil-applied and 0.5 lb ai/A/year of foliar-applied mefenoxam- and metalaxyl-containing products ◆ Pre-harvest interval (PHI): N/A | | |

| PINEAPPLE | | |
|--|--|--|
| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
| Heart Rot Disease (<i>Phytophthora</i> spp.) | 0.5 to 1 pt in 100 gal water (0.25 to 0.5) | Crown Dip: Treat before planting. The amount of dip solution needed per acre depends upon crown size, planting density, and dipping techniques. For dipping, use 75 to 100 gallons of mixture per acre. |
| Restrictions | | |
| <ul style="list-style-type: none"> ◆ If there is a crop failure within 1 year of planting treated crowns, do not harvest plant material for animal feed. ◆ Apply only once as a crown dip treatment before planting. ◆ Maximum single application rate: 1 pt/100 gallons of water (equivalent to 0.5 lb mefenoxam ai/A) ◆ Minimum application interval: N/A ◆ Maximum annual application rate: 1 pt/100 gallons of water/A (equivalent to 0.5 lb mefenoxam ai/A) <ul style="list-style-type: none"> ▫ Do not exceed 0.5 lb ai/A/year of mefenoxam- and metalaxyl-containing products ◆ Pre-harvest interval (PHI): N/A | | |

| ROOT AND TUBER VEGETABLES, Crop Group 1 | | |
|---|-------------------------------------|---|
| ROOT AND TUBER VEGETABLES, Crop Group 1 EXCEPT CARROT, GINSENG, POTATO, and SUGAR BEET Arracacha, Arrowroot, Artichoke (Chinese and Jerusalem), Beet (garden), Burdock (edible), Canna (edible), Cassava (bitter and sweet), Celeriac (celery root), Chayote (root), Chervil (turnip-rooted), Chicory, Chufa, Dasheen (taro), Ginger, Horseradish, Leren, Parsley (turnip-rooted), Parsnip, Radish, Oriental Radish (daikon), Rutabaga, Salsify (oyster plant, black, Spanish), Skirret, Sweet potato, Tanier (cocoyam), Turmeric, Turnip, Yam bean (jicama, manioc pea), Yam (true) | | |
| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
| Pythium Root Rot (<i>Pythium</i> spp.) Phytophthora Root Rot (<i>Phytophthora</i> spp.) | 1 to 2 pt/A (0.5 to 1) | Preplant Incorporated (broadcast or band): Apply in sufficient water or liquid fertilizer to provide uniform coverage and mechanically incorporate in the top 2 inches of soil. For banded application, use a 7-inch band. Soil Surface Application (broadcast or band): Apply at planting in sufficient water or liquid fertilizer to provide uniform coverage. For banded application, use a 7-inch band. |
| Precautions <ul style="list-style-type: none"> ◆ For banded application, refer to the APPLICATION INSTRUCTIONS section of this label to calculate the amount of this product needed per acre for the band width actually used. ◆ Soil surface sprays of this product will not be effective until the fungicide is moved into the root zone by rainfall or irrigation. Restriction <ul style="list-style-type: none"> ◆ Maximum single application rate: 2 pt/A (equivalent to 1 lb mefenoxam ai/A) ◆ Minimum application interval: N/A ◆ Maximum annual application rate: 2 pt/A (equivalent to 1 lb mefenoxam ai/A) <ul style="list-style-type: none"> ▫ Do not exceed 1 lb ai/A/year of mefenoxam- and metalaxyl-containing product ◆ Pre-harvest interval (PHI): N/A | | |
| CARROT | | |
| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
| Cavity Spot Damping-off Root Dieback (<i>Pythium</i> spp.) | 0.5 to 1 pt/A (0.25 to 0.5) | Preplant Incorporated (broadcast or band): Apply in a sufficient amount of water or liquid fertilizer to provide uniform coverage and mechanically incorporate in the top 2 inches of soil. For banded applications, use a 7-inch band. At-Planting or Pre-emergence Soil Surface Application (broadcast or band): Apply in water or liquid fertilizers. For banded applications, use a 7-inch band. Move into soil as described in the APPLICATION INSTRUCTIONS section of this label. |
| Cavity Spot Root Dieback (<i>Pythium</i> spp.) | 0.25 to 1 pt/A (0.125 to 0.5) | Post Planting Applications: Apply 28-50 days after planting by chemigation, ground equipment with a spray directed to the base of the plants, or shanked in with liquid fertilizer. Repeat at 14- to 21-day intervals. Follow all soil surface sprays of this product with the application of one inch of water by irrigation to allow movement of the fungicide into the root zone. |

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| | | <p>Directed Spray (Broadcast or band): Apply as a spray directed to the base of the plants. Make a maximum of 4 applications beginning 40-60 days after planting and then continue at 14- to 21-day intervals. Use a sufficient amount of water to provide uniform coverage.</p> <p>For banded applications, use a 7-inch band for best results.</p> <p>Irrigation: Inject the product into the irrigation water.</p> |
|--|--|---|

Precautions

- ◆ For control of cavity spot, best results are obtained when this product is used in a preventative disease control program that incorporates an application at planting followed by one or more supplemental applications.

Restrictions

- ◆ Do not make a soil application if a seed treatment containing mefenoxam or metalaxyl is used
- ◆ Maximum single application rate: 1 pt/A (equivalent to 0.5 lb mefenoxam ai/A)
- ◆ Minimum application interval: 14 days
- ◆ Maximum annual application rate: 2.8 pt/A (equivalent of 1.4 lb mefenoxam ai/A)
 - a) Do not exceed 0.65 lb ai/A/year of soil-applied and 0.75 lb ai/A/year of foliar-applied mefenoxam- and metalaxyl-containing products.
 - b) Do not exceed a total of 1.4 lb ai/A/year of mefenoxam- and metalaxyl-containing products
- ◆ Pre-harvest interval (PHI): 7 days

GINSENG

| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
|---|-----------------------------|---|
| Phytophthora Root Rot (<i>Phytophthora cactorum</i>) | 0.75 pt/A (0.38) | Soil Drench: For stand establishment, apply in 100 to 400 gallons of water per acre uniformly to the soil surface in the spring before the plants begin to grow. |

Restrictions

- ◆ Do not make more than 1 application per year
- ◆ Maximum single application rate: 0.75 pt/A (equivalent to 0.38 lb mefenoxam ai/A)
- ◆ Minimum application interval: N/A
- ◆ Maximum annual application rate: 0.75 pt/A (equivalent to 0.38 lb mefenoxam ai/A).
 - Do not exceed 0.38 lb ai/A/year of soil-applied and 1.13 lb ai/A/year of foliar-applied mefenoxam- and metalaxyl-containing products
- ◆ Pre-harvest interval (PHI): N/A

POTATO

| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
|--|--|---|
| Pythium Leak (<i>Pythium</i> spp.) | 0.42 fl oz / 1,000 row feet | <p>In-Furrow Application: Apply to row on a 6- to 8-inch band at planting. Make application directly over the seed pieces prior to row closure or use the markout application method (incorporated).</p> <p>Use rates for common row spacing:</p> <ul style="list-style-type: none"> ◆ 5.8 fl oz/acre for 38-inch row spacing (13,754 row feet/acre) ◆ 6.1 fl oz/acre for 36-inch row spacing (14,520 row feet/acre) ◆ 6.5 fl oz/acre for 34-inch row spacing (15,374 row feet/acre) <p>You may need to follow this in-furrow application with a foliar application of this product or a tank mix with another fungicide at tuber initiation (see control of storage rot below):</p> |
| Pink Rot (<i>Phytophthora erythroseptica</i>) | Equivalent to 6.1 fl oz/A (0.19 lb ai/A) | |
| Pythium Seedling Disease (<i>Pythium</i> spp.) | on 36-inch row spacing | |

| | | |
|--|----------------------|--|
| | | <ul style="list-style-type: none"> ◆ When conditions are conducive to disease development. ◆ When variety planted is susceptible or moderately susceptible to pink rot/<i>Pythium</i> leak. ◆ In areas with a long growing season. <p>This product may be impregnated on dry fertilizer or applied in combination with liquid fertilizers.</p> |
| Storage Rots Pythium Leak (<i>Pythium</i> spp.) Pink Rot (<i>Phytophthora erythroseptica</i>) | 3.2 fl oz/A (0.1) | <p>Broadcast or soil directed application by air, ground, or chemigation: Apply at tuber initiation when the largest tubers are the size of a nickel. This period usually coincides with the initiation of flowering.</p> <p>Make a second application 14 days later. If the field has a history of storage rot, make a third application 14 days after the second application.</p> <p>If foliar diseases are expected, then a tank mix with a labeled rate of a product containing chlorothalonil or mancozeb is required.</p> |

Note: For in-furrow applications, refer to the table in the APPLICATION INSTRUCTIONS section of this label for common row spacings and corresponding amount of product to apply per acre

Restrictions

- ◆ Do not use the “dribble” application method
- ◆ Maximum single application rate: 0.42 fl oz/1,000 row ft, corresponding to (a) 6.1 fl oz/A for 36-inch row spacing (equivalent to 0.19 lb mefenoxam ai/A) **or** (b) 11 fl oz/A for 20-inch row spacing (equivalent to 0.34 lb mefenoxam ai/A)
- ◆ Minimum application interval: 14 days
- ◆ Maximum annual application rate:
 - In-furrow: 0.42 fl oz/1,000 row ft, corresponding to 11 fl oz/A for 20-inch row spacing (equivalent to 0.34 lb mefenoxam ai/A)
 - Foliar: 9.6 fl oz/A (equivalent to 0.3 lb mefenoxam ai/A)
 - Do not exceed 0.34 lb ai/A/year of soil-applied and 0.4 lb ai/A/year of foliar-applied mefenoxam- and metalaxyl-containing products
- ◆ Pre-harvest interval (PHI): 14 days

SUGAR BEET

| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
|--|-----------------------------|---|
| Pythium Root Rot (<i>Pythium</i> spp.) | 1 to 2 pt/A (0.5 to 1) | <p>Preplant Incorporated (broadcast or band): Apply in sufficient water or liquid fertilizer to provide uniform coverage and mechanically incorporate in the top two inches of soil.</p> <p>Soil Surface Application (broadcast or band): Apply at planting in sufficient water or liquid fertilizer to provide uniform coverage.</p> |

Precautions

- ◆ For banded applications, use a 7-inch band.
- ◆ Soil surface sprays of this product will not be effective until the fungicide is moved into the root zone by rainfall or irrigation.

Restrictions

- ◆ Maximum single application rate: 2 pt/A (equivalent to 1 lb mefenoxam ai/A)
- ◆ Minimum application interval: N/A
- ◆ Maximum annual application rate: 2 pt/A (equivalent to 1 lb mefenoxam ai/A)
 - Do not exceed 1 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products
- ◆ Pre-harvest interval (PHI): N/A

| SOYBEAN | | |
|--|--|--|
| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
| Phytophthora Root and Stem Rot (<i>Phytophthora megasprema</i>) Pythium Damping-off (<i>Pythium</i> spp.) | 0.08 to 0.28 fl oz / 1,000 row feet (0.0025 to 0.0088) | 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 higher rate for full season control and 0.08 to 0.15 fl oz/1,000 row ft for early- to mid-season control. |
| | 0.37 to 1.25 pt/A (0.18 to 0.63) | Soil Spray (broadcast or band): For full season control, apply 1.25 pt/A at planting in sufficient water or liquid fertilizer to provide uniform coverage. For early- to mid-season control, apply 0.37 to 0.75 pt/A. Move product into the seed zone after planting with 0.5 to 1 inch sprinkler irrigation. For banded application, use a 7-inch band. |
| <p>Precautions</p> <ul style="list-style-type: none"> ◆ Under heavy late-season <i>Phytophthora</i> pressure, this product may not provide complete root and stem rot control. ◆ 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 of resistance to the races of <i>Phytophthora</i> present in the field. <p>Restrictions</p> <ul style="list-style-type: none"> ◆ Maximum single application rate: 1.25 pt/A (equivalent to 0.63 lb mefenoxam ai/A) ◆ Minimum application interval: N/A ◆ Maximum annual application rate: 1.25 pt/A (equivalent to 0.63 lb mefenoxam ai/A) <ul style="list-style-type: none"> ▫ Do not exceed 0.63 lb ai/A/year of mefenoxam- and metalaxyl-containing products ◆ Pre-harvest interval (PHI): N/A | | |

| STONE FRUITS, Crop Group 12: Apricot, Cherry (sweet and tart), Nectarine, Peach, Plum, Plum (Chickasaw, Damson, Japanese), Plumcot, Prune (fresh), Hybrids or cultivars of these | | |
|---|---|---|
| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
| Crown Rot Collar Rot Root Rot (<i>Phytophthora</i> spp.) | 4 pt/A (2) or 1.5 fl oz /1,000 ft ² | Soil Surface Application (broadcast, band, or irrigation): Apply to soil beneath the tree canopy or apply through irrigation water (drip or micro-sprinkler) to cover the root zone 2 weeks after planting (new plantings) or in the spring before growth begins (established plantings). Make additional applications at 2- to 3-month intervals depending on disease pressure. Make up to 3 applications per year. For intensive plantings (2 to 3 times the normal planting rate), apply on a per area basis (1,000 square feet). Soil surface sprays of this product will not be effective until the fungicide is moved into the root zone by rainfall or irrigation. |

Precaution

- ♦ Apply before symptoms appear. This product will not revitalize trees showing moderate to severe disease symptoms.

Restrictions

- ♦ Do not graze livestock in treated areas.
- ♦ Do not graze or feed cover crops grown in treated orchards.
- ♦ Maximum single application rate: 4 pt/A (equivalent to 2 lb mefenoxam ai/A)
- ♦ Minimum application interval: 60 days
- ♦ Do not exceed 3 applications per year
- ♦ Maximum annual application rate: 12 pt/A (equivalent to 6 lb mefenoxam ai/A)
 - Do not exceed 6 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products
- ♦ Pre-harvest interval (PHI): 0 days
- ♦ Do not concentrate the treatment around the tree trunks or injury may occur.
- ♦ Do not apply to trees under stress.
- ♦ In California, do not apply this product to newly planted trees within 45 days of planting; some varieties may exhibit chlorosis on leaf margins.

TOBACCO

| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
|--|---|--|
| Damping-off (<i>Pythium</i> spp.) | 0.5 to 1 pt/A (0.25 to 0.5) OR 0.25 to 0.5 fl oz / 150 sq yd | Soil spray (broadcast): Apply in 50 gallons of water per acre (2 gallons water/150 square yard) as a preplant soil application or at planting. Use the higher application rate on broadleaf tobacco. Move the product into the seed zone after planting as described in the APPLICATION INSTRUCTIONS section of this label. |
| Black Shank (<i>Phytophthora parasitica</i> <i>var. nicotiana</i>) | For conventional till: 1 to 3 pt/A (0.5 to 1.5) For no-till tobacco: 0.5 to 1 pt/A (0.25 to 0.5) | Pre-transplant Soil Spray (broadcast): Apply to the soil within one week of planting. Incorporate in the top 2 to 4 inches of soil. Use the higher rate if the disease epidemic is expected to be severe. In FL and GA, use 3 pints/A where black shank is severe. Apply preventively for effective black shank control. If black shank is expected early in the season, apply as near as possible to transplanting followed by additional applications. |
| | 4 to 8 fl oz/A in 200 gal water (0.13 to 0.25) | Transplant Water[*]: Apply in transplant furrow while planting tobacco seedlings. Apply in at least 200 gallons of transplant water per acre. Use the higher rate if the disease epidemic is expected to be severe. Make at least one additional application at first cultivation and/or layby if necessary. <u>Note:</u> There is a risk of plant injury with transplant water application, especially when the product is applied in less than 200 gallons of carrier volume per acre. Crop injury is more likely for applications in less than 100 gallons per acre. Injury is temporary and is expected to disappear within three weeks. Pre-mixing this product in a tank separate from the transplant water source tank will help to prevent incompatibility with fertilizers or other pesticides in the transplant water solution. [*Not for use in California] |

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| | <p>For conventional till: 1 to 2 pt/A (0.5 to 1)</p> <p>For no-till tobacco: 0.5 to 1 pt/A (0.25 to 0.5)</p> | <p>Soil Spray (broadcast or band): Apply once at layby or make one application at the first cultivation and a second application at layby. Position the nozzles so the spray is deposited under the plants and covered with soil by the cultivator. Move into soil as described in the APPLICATION INSTRUCTIONS section of this label. Use the higher rate if disease pressure is expected to be severe.</p> <p>Apply preventively for effective black shank control. If black shank is expected early in the season, apply as near as possible to transplanting followed by additional applications.</p> |
| Blue Mold (<i>Peronospora tabacina</i>) | <p>For conventional till and no-till: 0.5 to 1 pt/A (0.25 to 0.5)</p> | <p>Pre-transplant Soil Spray (broadcast): Apply as a broadcast soil application prior to transplanting and incorporate in the top 2 to 4 inches of soil before forming beds.</p> <p>Use the lower rate under low disease pressure or for early season control,. Use the higher rate for high disease pressure, extended control, and burley and other tobacco types other than flue-cured.</p> |
| | <p>For conventional till: 0.5 pt/A (0.25)</p> <p>For no-till tobacco: 0.5 to 1 pt/A (0.25 to 0.5)</p> | <p>Post-transplant Soil spray (band): If a pre-transplant application was made, make a supplemental application at layby or the last cultivation. Position the nozzles so that the spray is deposited under the plants and is covered by soil by the cultivator.</p> |

Precautions

- ◆ Consult local extension bulletins for additional use directions.
- ◆ For best results against black shank, use tobacco varieties that have high resistance to black shank and use crop rotation.
- ◆ In fields where there is a history of high black shank incidence, use the higher rate and plant a variety that is resistant to the race of *Phytophthora* present in the field (Burley L8 hybrids are resistant only to *Phytophthora* Race 0).
- ◆ Failure to adequately control nematodes in fields treated with this product may result in poor control of black shank.
- ◆ Do not apply to stressed seedlings or during hot and dry conditions due to potential for injury.

Restrictions

- ◆ Maximum single application rate: 3 pt/A (equivalent to 1.5 lb mefenoxam ai/A)
- ◆ Minimum application interval: 14 days
- ◆ Maximum annual application rate: 3 pt/A (equivalent to 1.5 lb mefenoxam ai/A)
 - Do not exceed 1.5 lb ai/A/year of mefenoxam- and metalaxyl-containing products
- ◆ Pre-harvest interval (PHI): N/A
- ◆ In areas with high black shank incidence, do not use on highly susceptible flue-cured varieties.
- ◆ Do not use this product for black shank control in PA.

| TREE NUTS: Almonds, Walnuts | | |
|--|--|---|
| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
| Crown Rot Collar Rot Root Rot (<i>Phytophthora</i> spp.) | 4 pt/A (2) or 1.5 fl oz / 1,000 ft ² | Soil spray (broadcast, band, or irrigation): Apply to soil under the tree canopy or through irrigation water (drip or micro-sprinkler) to cover the root zone two weeks after planting (new plantings) or in the spring before growth begins (established plantings). Move into soil as described in the APPLICATION INSTRUCTIONS section of this label. Additional applications may be made at 2- to 3-month intervals depending on disease pressure. Make up to 3 applications per year. For intensive plantings (2 to 3 times the normal planting rate), apply on a per area basis (1,000 square feet). |
| <p>Precaution</p> <ul style="list-style-type: none"> ◆ Apply before symptoms appear. This product will not revitalize trees showing moderate to severe disease symptoms. <p>Restrictions</p> <ul style="list-style-type: none"> ◆ Do not graze livestock in treated areas. ◆ Do not graze or feed cover crops grown in treated orchards. ◆ Maximum single application rate: 4 pt/A (equivalent to 2 lb mefenoxam ai/A) ◆ Minimum application interval: 60 days ◆ Maximum annual application rate: 12 pt/A (equivalent to 6 lb mefenoxam ai/A) <ul style="list-style-type: none"> ▫ Do not exceed 6 lb ai/A/year of soil-applied mefenoxam- and metalaxyl-containing products ◆ Do not exceed 3 applications per year ◆ Pre-harvest interval (PHI): 30 days ◆ Do not apply to trees under stress. ◆ Do not concentrate the treatment around the tree trunks or injury may occur. ◆ In California, do not apply this product to newly planted trees within 45 days of planting; some varieties may exhibit chlorosis on leaf margins. | | |

| TROPICAL AND SUBTROPICAL FRUIT, INEDIBLE PEEL | | |
|--|-------------------------------------|---|
| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
| MEDIUM TO LARGE FRUIT, ROUGH OR HAIRY PEEL Atemoya, Biriba, Cherimoya, Custard Apple, Ilama, Soursop, Sugar Apple | | |
| Crown Rot Damping-off Pythium Root Rot (<i>Pythium</i> spp.) | 1.5 to 3 pt/A (0.75 to 1.5) | Soil Drench: Apply to the soil surface under the tree canopy in sufficient water or liquid fertilizer to deliver approximately 5 gallons per plant. Make one application in the spring at root growth flush and a second application in the fall. |
| Crown Rot Phytophthora Root Rot (<i>Phytophthora</i> spp.) | | |
| <p>Restrictions</p> <ul style="list-style-type: none"> ◆ Maximum single application rate: 3 pt/A (equivalent to 1.5 lb mefenoxam ai/A) ◆ Minimum application interval: 90 days ◆ Maximum annual application rate: 6 pt/A (equivalent to 3 lb mefenoxam ai/A) <ul style="list-style-type: none"> ▫ Do not exceed 3 lb ai/A/year of mefenoxam- and metalaxyl-containing products ◆ Do not make more than 2 applications per year ◆ Pre-harvest interval (PHI): 30 days | | |

| MEDIUM TO LARGE FRUIT, SMOOTH AND ROUGH OR HAIRY PEEL Black Sapote, Canistel, Mamey Sapote, Mango, Papaya, Sapodilla, Star Apple | | |
|---|--------------------------------|---|
| Damping-off (<i>Pythium</i> spp.) Root Rot (<i>Phytophthora</i> spp.) | 1.5 to 3 pt/A (0.75 to 1.5) | Soil Drench: Apply around the base of the plants in sufficient water or liquid fertilizer to deliver approximately 5 gallons per plant. Make up to two applications per year. Make the first application at transplanting or in the spring at root growth flush. Make the second application at least 1 day prior to harvest. |
| Restrictions | | |
| <ul style="list-style-type: none"> ♦ Maximum single application rate: 3 pt/A (equivalent to 1.5 lb mefenoxam ai/A) ♦ Minimum application interval: 90 days ♦ Maximum annual application rate: 6 pt/A (equivalent to 3 lb mefenoxam ai/A) <ul style="list-style-type: none"> ▫ Do not exceed 3 lb ai/A/year of mefenoxam- and metalaxyl-containing products ♦ Do not make more than 2 applications per year ♦ Pre-harvest interval (PHI): 1 day | | |
| STARFRUIT | | |
| Crown Rot Root Rot (<i>Phytophthora</i> spp.) Crown Rot Pythium Root Rot (<i>Pythium</i> spp.) | 1.5 to 3 pt/A (0.75 to 1.5) | Soil Drench: Apply to the soil surface under the tree canopy in sufficient water or liquid fertilizer to deliver approximately 5 gallons per plant. Make one application in the spring when root growth begins and a second application in the fall. |
| Restrictions | | |
| <ul style="list-style-type: none"> ♦ Maximum single application rate: 3 pt/A (equivalent to 1.5 lb mefenoxam ai/A) ♦ Minimum application interval: 90 days ♦ Maximum annual application rate: 6 pt/A (equivalent to 3 lb mefenoxam ai/A) <ul style="list-style-type: none"> ▫ Do not exceed 3 lb ai/A/year of mefenoxam- and metalaxyl-containing products ♦ Do not make more than 2 applications per year ♦ Pre-harvest interval (PHI): 30 days | | |

| WASABI (Greenhouse) | | |
|--|---|---|
| DISEASE | PRODUCT USE RATE (lb ai) | USE INSTRUCTIONS |
| Root Rot (<i>Pythium</i> spp.) | 0.5 to 1.5 pt/A (0.25 to 0.75) Equivalent to 0.0012 to 0.014 lb ai/ft ³ | Greenhouse foliar mist application only Apply only via automatic foliar misting system in 400-1,500 gal/A. Make the first application prior to disease onset and continue applications at 7-day intervals, up to a maximum of 6 applications. Do not make more than 2 consecutive applications of this product or other Group 4 fungicides before alternating with a fungicide from a different mode of action group. |
| Restrictions | | |
| <ul style="list-style-type: none"> ♦ Apply only via automatic foliar misting system. No workers or handlers may be present in the greenhouse during application. ♦ Restricted-entry interval (REI): 48 hours ♦ Maximum single application rate: 1.5 pt/A (equivalent to 0.75 lb mefenoxam ai/A) ♦ Minimum application interval: 7 days ♦ Maximum annual application rate: 9 pt/A (equivalent to 4.5 lb mefenoxam ai/A) <ul style="list-style-type: none"> ▫ Do not exceed 4.5 lb ai/A/year of mefenoxam- and metalaxyl-containing products ♦ Do not make more than 6 applications per year ♦ Pre-harvest interval (PHI): 7 days | | |

STORAGE AND DISPOSAL

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

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 HANDLING:

[Note to Reviewer: The following statement will be included on all Final Printed Labels bearing multiple Container Handling statements] **“NOTE:** This product is available in multiple containers. Refer to the Net Contents section of this product’s labeling for the applicable “Nonrefillable” or “Refillable” designation. Follow the container handling instructions below that apply to your container type/size.”

[Nonrefillable containers 5 gallons or less:] Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Plastic containers are also disposable by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

[Nonrefillable containers larger than 5 gallons:] Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. **Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip. Then offer for recycling if available, 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 containers larger than 5 gallons:] Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water and, if possible, spray all sides while adding water. If practical, agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

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