

100-1145

11/27/2009

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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

NOV 27 2009

Ms. Pat Dinnen
Label Group Leader, Regulatory Affairs
Syngenta Crop Protection, Inc.
P.O. Box 18300
Greensboro, NC 27419-8300

Subject: Label Notification for Pesticide Registration Notice 2007-4
(EPA Registration Number 100-1145)

Dear Ms. Dinnen,

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated September 15, 2009 for the product Mefenoxam 2E (EPA Registration Number 100-1145). The Registration Division (RD) has conducted its review of this request for its applicability under PRN 2007-4 and finds that the label changes requested fall within the scope of PRN 2007-4. The revised label submitted with the application has been stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please call me directly at 703-305-6249 or Steve Schaible of my staff at 703-308-9362.

Sincerely,

Linda Arrington
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs



United States
Environmental Protection Agency
 Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Notification

Application for Pesticide - Section I

1. Company/Product Number 100-1145	2. EPA Product Manager Mary Waller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Mefenoxam 2E	PM# 21	
5. Name and Address of Applicant (Include ZIP Code) Syngenta Crop Protection, Inc. P. O. Box 18300 Greensboro, NC 27419 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____	NOTIFICATION NOV 27 2009
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.	
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.	

Explanation: Use additional page(s) if necessary. (For Section I and Section II.).

Notification of label change per PR Notice 2007-4. This Notification is consistent with the guidance of PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Syngenta is amending the Storage and Disposal section of the label by Notification according to the directions stated in PR Notice 2007-4.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____		
*Certification must be submitted		If "Yes" Unit Packaging wgt. No. per Container	If "Yes" Unit Packaging wgt. No. per container		
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1 gal.		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product			<input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled	<input checked="" type="checkbox"/> Other Pressure Sensitive	

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name Pat Dinnen		Title Label Group Leader		Telephone No. (Include Area Code) 336-632-7494	
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.					6. Date Application Received (Stamped) _____ _____ _____ _____
2. Signature <i>Pat Dinnen</i>			3. Title Regulatory Specialist		
4. Typed Name Pat Dinnen			5. Date September 15, 2009		

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Mefenoxam 2E

Fungicide

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

Active Ingredients:

Mefenoxam*	25.1%
Other Ingredients:	74.9%
Total:	100.0%

*CAS Nos. 70630-17-0 and 69516-34-3

Contains petroleum distillate

*Contains 2 lbs. active ingredient per gallon.

NOTIFICATION

NOV 27 2009

KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

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

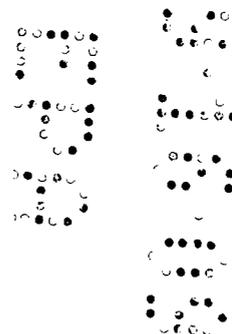
See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-1145

EPA Est. _____

Product of Switzerland
Formulated in the USA

One Gallon
Net Contents



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FIRST AID	
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If 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 swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Do not give any liquid to the person. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If 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 by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
NOTE TO PHYSICIAN	
Contains petroleum distillate – vomiting may cause aspiration pneumonia. Treat symptomatically.	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
HOT LINE NUMBER	
For 24 Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident) Call 1-800-888-8372	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

WARNING/AVISO

Causes substantial but temporary eye injury. Do not get in eyes. Wear safety glasses, goggles or face shield. Wash thoroughly with soap and water after handling. Harmful if swallowed or absorbed through skin. Avoid contact with skin, or clothing. Remove contaminated clothing and wash before reuse.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear:

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- Long-sleeved shirt and long pants
- Chemical resistant gloves such as barrier laminate or viton (≥ 14 mils)
- Shoes plus socks
- Protective eyewear

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

Engineering Control Statements

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

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on 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 wash water or rinsate.

Groundwater Advisory Statement

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

Physical or Chemical Hazards

Do not use or store near heat or open flame.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, INC. or Seller. To the extent consistent with applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

It is the intention of SYNGENTA and Seller that to the extent consistent with applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

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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, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 hours. For crop uses that fall under this REI, see Part 2, *Soil-Directed and Other Foliar Applications* under *Directions for Use* of this label.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area immediately if there will be no contact with anything that has been treated. For crop uses that fall under this Exception, see Part 1, *Soil-Injected or Soil-Incorporated Applications* under *Directions for Use* of this label.

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 or viton (≥ 14 mils)
- Shoes plus socks
- Protective eyewear

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, OR ILLEGAL RESIDUES.

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GENERAL INFORMATION

Mefenoxam 2E is a systemic fungicide for use on selected crops to control certain diseases caused by members of the Oomycete class of fungi.

GENERAL USE PRECAUTIONS

Do not use Mefenoxam 2E in greenhouses or other structures such as lath houses, float houses and hydroponic facilities.

Do not use Mefenoxam 2E for disease control in bedding plants, transplant trays or nurseries.

DO NOT USE MEFENOXAM 2E AS A FOLIAR APPLICATION UNLESS SPECIFIED ON THIS LABEL.

Do not dip plants or roots, spray bare roots, or use a transplant water treatment with solutions containing Mefenoxam 2E.

Under conditions conducive to severe disease pressure, additional fungicide applications beyond the number allowed by this label may be needed. Under these conditions, use another fungicide registered for the crop/disease appearing on this label.

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.

RESISTANCE MANAGEMENT



Mefenoxam 2E is a systemic fungicide having a specific mode of action and could be subject to development of insensitive strains of fungi. Development of insensitivity cannot be predicted. Therefore, Syngenta cannot assume liability for crop damage resulting from insensitive strains of fungi. If treatment is not effective following the use of Mefenoxam 2E as recommended, an insensitive strain of fungi may be present. If the treatment is ineffective due to the presence of a Mefenoxam 2E insensitive strain of fungi, neither Mefenoxam 2E nor any other fungicide with similar action will effectively control that disease. Consideration should then be given to the prompt use of other types of suitable fungicides. Consult with your State Agricultural Experiment Station or Extension Service Specialist for guidance on your particular crop and disease control situation.

Rotational Crop Restrictions

Do not plant any crop which is not registered for use with mefenoxam in soil treated with this active ingredient for a period of 12 months, unless a shorter interval is specified on the following list.

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Rotation Crop	Planting Time From Last Mefenoxam 2E Application
Alfalfa (including birdsfoot trefoil) Asparagus Brassica Vegetables (e.g., broccoli, cabbage, cauliflower) Clover Cotton Cucurbit Vegetables (e.g., cucumber, melons, squash) Fruiting Vegetables (e.g., tomatoes, peppers, eggplant) Globe Artichoke Herbs (fresh and dried) Leafy Vegetables, except Brassica (e.g., lettuce, spinach, celery) Legume Vegetables (e.g., beans and peas, succulent and dried) Onions (dry bulb, including garlic, and green) Peanuts Pineapples Root and Tuber Vegetables (e.g. potatoes, carrots, sugar beets) Soybeans Strawberries Sunflower	0 days
Cereal Grains (other than Corn)	14 days
Corn	9 months
Crops Not Intended for Food or Feed	0 days
All Other Crops Intended for Food or Feed	12 months

Replanting

If replanting is necessary, additional applications of Mefenoxam 2E may be made, provided that the total amount of active ingredient in Mefenoxam 2E applied does not exceed the maximum allowed for the specific crop.

Spray Drift Precautions

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

MIXING INSTRUCTIONS

Add ¼-½ of the required amount of water to the spray tank, add the proper amount of Mefenoxam 2E, then add the rest of the water. When tank mixing other products with Mefenoxam 2E, follow the proper sequence of adding products to the spray tank. Wettable powders or water dispersible granules should be added to the water in the tank first, followed by flowable products, and emulsifiable concentrates, such as Mefenoxam 2E, added last. Provide sufficient mechanical or bypass agitation during mixing and application to maintain a uniform emulsion.

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Mefenoxam 2E is compatible with many commonly used fungicides, liquid fertilizers, herbicides, insecticides and biological control products. If tank mixes are desired, observe all directions, precautions, and limitations on labeling of all products used. Consult compatibility charts or your local or State agricultural authorities for compatibility information. It is impossible to test every species and variety of plants under all conditions.

Do not combine Mefenoxam 2E in the spray tank with pesticides, surfactants or fertilizers, unless compatibility charts or your own prior use has shown that the combination is physically compatible, effective and non-injurious under your conditions of use. If physical compatibility is unknown, follow this procedure: Pour the recommended proportions of the products into a suitable container of water, mix thoroughly and allow to stand at least twenty (20) minutes. If the combination remains mixed or can be re-mixed readily, the mixture is considered physically compatible.

APPLICATION INSTRUCTIONS

Apply Mefenoxam 2E by ground or air in sufficient water or liquid fertilizer to provide uniform coverage of the soil surface. Apply in a minimum of 20 gals./A for ground applications and 5 gals./A by air. Refer to the *Directions for Use* for specific crop application recommendations.

Band Applications

Recommended rates in the *Directions for Use* section are generally expressed as an amount per acre, which refers to the total crop area to be treated. If rates are expressed as amount per acre and banded applications are used, then the correct amount of pesticide used per acre will be proportionately less because the area to be treated is actually the area covered by the band, not total cropland planted. Use the following formula to calculate the amount of Mefenoxam 2E needed per acre of crop when banded applications are made.

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

In-Furrow Applications

For in-furrow applications, apply Mefenoxam 2E as an in-furrow spray in 3-7 gals./A of water at planting. Mount the spray nozzle so the spray is directed into the furrow just before the seed are covered. Following is a table of the common row spacings and the amount of Mefenoxam 2E applied per acre:

Use Rate fl. oz./1,000 row feet (oz. a.i./1,000 row feet)	Mefenoxam 2E fl. oz./A								
	20 inch rows	22 inch rows	24 inch rows	30 inch rows	32 inch rows	34 inch rows	36 inch rows	38 inch rows	40 inch rows
0.15 (0.038)	4.0	3.6	3.2	2.6	2.5	2.3	2.2	2.1	2.0
0.3 (0.075)	7.8	7.0	6.5	5.2	5.0	4.6	4.3	4.1	4.0
0.56 (0.14)	14.5	13.3	12.2	9.8	9.1	8.5	8.1	7.7	7.3
0.84 (0.21)	22.0	20.0	18.3	14.5	13.7	13.0	12.2	11.6	11.0

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

Instructions for Moving Mefenoxam 2E Into The Root or Seed Zone

To ensure maximum activity on soilborne pathogens, Mefenoxam 2E must be moved into the seed or root zone of the plant. Some crop directions recommend incorporating the fungicide 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 ½-1 inch of water.

Chemigation

Mefenoxam 2E, alone or in combination with other pesticides which are registered for application through irrigation systems, may be applied through irrigation systems. Apply this product only 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 questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system, unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Mefenoxam 2E must be applied on the schedule specified in the specific crop use recommendations, not according to the irrigation schedule. Users must check with state and local regulatory agencies for potential use restrictions before applying any agricultural chemical through sprinkler or drip irrigation equipment.

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Do not inject Mefenoxam 2E at full strength or deterioration of valves and seals may occur. Use a dilution ratio of at least 15 parts water to 1 part Mefenoxam 2E in the mix tank. Mefenoxam 2E can affect many seal materials. Leather seals are best. EPDM or silicone rubber seals can be used, but should be replaced once a year. Do not use Viton, Buna-N, Neoprene, or PVC seals.

General Operating Instructions For All Irrigation Systems

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

Specific Instructions for Public Water Systems

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back-flow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

4. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Do not apply when wind speed favors drift beyond the area intended for treatment.

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DIRECTIONS FOR USE – PART 1

SOIL-INJECTED OR SOIL-INCORPORATED APPLICATIONS

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

Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
Alfalfa (including birdsfoot trefoil)	Damping Off (<i>Pythium</i> spp.) Root Rot (<i>Phytophthora</i> spp.)	0.50-1.0 pt./A (0.12-0.25)	Soil spray (broadcast): Apply as a broadcast soil surface spray at planting. If alfalfa seed was previously treated with mefenoxam or metalaxyl as a seed dressing, use the 0.5pt./A rate.

For additional applications, see Alfalfa in Part 2 of Directions for Use: Soil Directed and Other Foliar Applications.

- Do not feed green forage or cut hay for 60 days following application (60 day PHI).

Artichoke, Globe	Damping Off (<i>Pythium</i> spp.) Root Rot (<i>Phytophthora</i> spp.)	1.0-2.0 qts./A (0.50-1.0)	Soil spray (broadcast): Apply at planting. Move into soil as recommended in Application Instructions.
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- Do not apply within 200 days of harvest (200 day PHI).

Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
Avocados	Root Rot (<i>Phytophthora cinnamomi</i>)	<p><u>Diluted Mixture:</u> 0.50 fl. oz. in 18 gals. water</p>	<p>Sleeve drench: At transplanting, drench the roots inside the sleeve with 1 qt. of the diluted mixture per tree. Sleeve drench does not replace other soil applications for long-term control of root rot.</p>
		<p>2.0-4.0 qts./A (1.0-2.0) or 1.0-2.0 fl. oz./ 1,000 gals. water (3.9-7.8 ppm)</p>	<p>Injection (drip irrigation): Inject Mefenoxam 2E into the irrigation water at the start of the growing season or at transplanting and as soon as soil tests indicate the presence of <i>Phytophthora</i>. Two additional applications may be made at 3-month intervals. Applications are not needed during the winter months of November through February.</p>

For additional applications, see Avocados in Part 2 of Directions for Use: Soil Directed and Other Foliar Applications.

- For new plantings, use *Phytophthora* resistant rootstocks.
- Mature trees in moderate to advanced stages of decline cannot be cured with Mefenoxam 2E.
- Do not apply within 28 days of harvest (28 day PHI).
- Do not exceed the equivalent of 6.0 lbs. a.i./A per crop of soil-applied mefenoxam containing products.

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Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
Carrots	Damping Off Root Dieback (<i>Pythium</i> spp.)	1.0-2.0 qts./A (0.50-1.0)	<p>Preplant Incorporated (broadcast or band): Apply in water or liquid fertilizer and mechanically incorporate in the top 2 inches of soil.</p> <p>Soil spray (broadcast or band): Apply in water or liquid fertilizer at planting or prior to emergence. Move into soil as recommended in Application Instructions</p> <p>For banded applications, a 7-inch band is recommended.</p>

- Do not exceed the equivalent of 1.0 lb. a.i./A per crop of soil-applied and 0.4 lb. a.i./A per crop of foliar-applied mefenoxam containing products.

Clover	Damping Off (<i>Pythium</i> spp.) Root Rot (<i>Phytophthora</i> spp.)	0.50-1.0 pt./A (0.125-0.25)	Soil spray (broadcast): Apply as a broadcast soil surface spray at planting. If the clover seed was previously treated with mefenoxam or metalaxyl as a seed dressing, use the 0.5 pt./A rate. Move into soil as recommended in Application Instructions
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Do not feed green forage or cut hay for 90 days following application (90 day PHI).

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Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
<p>Cole Crops</p> <p>Broccoli Brussels Sprouts Cabbage Cauliflower Collards Mustard Greens</p> <p>All hybrids and varieties of these.</p> <p>Additional cole crops listed below.</p>	<p>Basal Stem Rot (<i>Phytophthora</i> spp.)</p>	<p>1.0-2.0 qts./A (0.50-1.0)</p>	<p>Preplant incorporated (broadcast or band): Apply in water or liquid fertilizer and incorporate in the top 2 inches of soil.</p> <p>Soil spray (broadcast or band): Apply in water or liquid fertilizer at planting. Move into soil as recommended in Application Instructions</p> <p>Injection (drip irrigation): Inject Mefenoxam 2E into the irrigation water at the recommended rates.</p> <p>For banded applications, a 7-inch band is recommended.</p>
	<p>Damping Off (<i>Pythium</i> spp.)</p>	<p>0.50-1.0 pt./A (0.125-0.250)</p>	<p>Preplant incorporated (broadcast or band): Apply in water or liquid fertilizer and incorporate in the top 2 inches of soil.</p> <p>For banded applications, a 7-inch band is recommended.</p>

Additional Cole Crops: Broccoli Raab (rapini), Cavalo Broccolo, Chinese Broccoli (gai lan), Chinese Cabbage (bok choy and napa), Chinese Mustard Cabbage (gai choy), Kale, Kohlrabi, Mizuna, Mustard Spinach, and Rape Greens.

For Downy Mildew control, see Cole Crops in Part 2 of Directions for Use: Soil Directed and Other Foliar Applications.

- Do not exceed the equivalent of 1.0 lb. a.i./A per crop of soil-applied and 0.50 lb. a.i./A per crop of foliar-applied mefenoxam containing products.

<p>Cotton</p>	<p>Seed and Root Rot (<i>Pythium ultimum</i>)</p> <p>Seedling Blight (<i>Pythium aphanadermatum</i>)</p>	<p>0.15-0.30 fl. oz./1,000 row ft. (0.002-0.004)</p>	<p>In-furrow spray: Apply in water or liquid fertilizer at planting. Direct the spray into the furrow over the seed just before the seeds are covered.</p>
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Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
<p>Cucurbits</p> <p>Cucumber Cantaloupe Honeydew Pumpkin Squash, Summer Squash, Winter Watermelon</p> <p>All hybrids and varieties of these.</p> <p>Additional cucurbits listed below.</p>	<p>Damping Off (<i>Pythium</i> spp.)</p>	<p>1.0-2.0 qts./A (0.50-1.0)</p>	<p>Preplant incorporated (broadcast or band): Apply in water or liquid fertilizer and incorporate in the top 2 inches of soil.</p> <p>Soil spray (broadcast or band): Apply in water or liquid fertilizer at planting. Move into soil as recommended in Application Instructions</p> <p>Injection (drip irrigation): Inject Mefenoxam 2E into the irrigation water at the recommended rates.</p> <p>For banded applications, a 7-inch band is recommended.</p>

Additional Cucurbits: Chayote, Chinese Waxgourd, Citron Melon, Edible Gourd – *Momordica* spp. (balsam apple, balsam pear, bitter melon, Chinese cucumber), Gherkin, and Muskmelon (casaba, crenshaw, golden pershaw, honey balls, mango, Persian, pineapple, Santa Claus, snake melons).

For additional applications, see Cucurbits in Part 2 of Directions for Use: Soil Directed and Other Foliar Applications.

- Do not exceed the equivalent of 1.0 lb. a.i./A per crop of soil-applied and 0.5 lb. a.i./A per crop of foliar-applied mefenoxam containing products.

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Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
Fruiting Vegetables (Except Cucurbits) Eggplant Groundcherry Pepino Pepper (bell, chili, cooking pepper, pimento, sweet) Tomatillo Tomato (see <i>Tomato</i> section for specific use directions)	Damping Off (<i>Pythium</i> spp.) Crown Rot (<i>Phytophthora capsici</i>)	1.0 qt./A (0.50)	To control Crown Rot, apply before the plants are infected to obtain satisfactory control. Plants already infected with <i>Phytophthora capsici</i> cannot be cured with Mefenoxam 2E. Soil spray (broadcast or band): Apply in water or liquid fertilizer preplant or at planting. For direct seeded peppers, apply preplant or prior to emergence. Move into soil as recommended in Application Instructions For banded applications, use a 12- to 16-inch band. Injection (drip irrigation): Inject Mefenoxam 2E into the irrigation water. Make up to two additional applications on a 30-day schedule following initial application at planting.

For additional applications, see Fruiting Vegetables in Part 2 of Directions for Use: Soil Directed and Other Foliar Applications.

- Do not apply within 7 days of harvest (7 day PHI).
- Do not exceed the equivalent of 1.5 lbs. a.i./A per crop of soil-applied mefenoxam containing products and 0.5 lb. a.i./A per crop of foliar-applied mefenoxam containing products.

Ginseng	Phytophthora Root Rot (<i>Phytophthora cactorum</i>)	1.5 pt./A (0.375)	Soil drench: For stand establishment, apply uniformly to the soil surface in the spring before the plants start growing. Apply in 100-400 gals. of water per acre. Follow with supplemental applications of Ridomil Gold GR (See Ridomil Gold GR label).
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- Do not make supplemental applications of Mefenoxam 2E.

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Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
Grass, Forage, Fodder, and Hay*	Seedling Diseases (<i>Pythium</i> spp.)	0.50-2.0 pt./A (0.125-0.50)	Soil spray (broadcast): Apply as a broadcast soil surface spray at planting. If the grass seed was previously treated with mefenoxam or metalaxyl as a seed dressing, use the 0.50-1.0 pt./A rate. Move into soil as recommended in Application Instructions.

* Includes enclosed pasture grasses or grasses grown for hay or silage such as Bermuda grass, bluegrass, brome grass, or fescue.

- Do not apply to range grasses.
- Do not graze, feed green forage, or cut hay for 60 days following application (60 day PHI).

Herbs (Fresh and Dried) Basil Chervil (dried) Chive Coriander (leaf) Cilantro (leaf) Dillweed Lemongrass Parsley (dried) Rosemary Sage Savory, Summer and Winter Sweet Bay Tarragon Thyme Additional herbs listed below.	Damping Off (<i>Pythium</i> spp.)	1.0-2.0 qts./A (0.50-1.0)	Preplant incorporated (broadcast or band): Apply in water or liquid fertilizer and mechanically incorporate in the top 2 inches of soil. Soil spray (broadcast or band): Apply in sufficient water to provide uniform coverage. Move into soil as recommended in Application Instructions For banded applications, a 7-inch band is recommended.
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Additional Herbs: Angelica, Balm, Borage, Burnet, Camomile, Catnip, Chinese Chive, Clary, Costmary, Curry (leaf), Horehound, Jyssop, Lavender, Lovage (leaf), Marigold, Marjoram, Nasturtium, Pennyroyal, Rue, Tansy, Wintergreen, Woodruff, and Wormwood.

For additional applications, see Herbs in Part 2 of Directions for Use: Soil Directed and Other Foliar Applications.

- Do not apply within 21 days of harvest (21 day PHI).
- Do not exceed the equivalent of 2.0 lb. a.i./A per crop of soil-applied mefenoxam-containing products.

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Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
<p>Leafy Vegetables (Except Brassica)</p> <p>Celery Lettuce (head and leaf) Parsley Spinach</p> <p>Additional leafy vegetables listed below.</p>	<p>Damping Off (<i>Pythium</i> spp.)</p>	<p>1.0-2.0 qts./A (0.50-1.0)</p>	<p>Preplant incorporated (broadcast or band): Apply in water or liquid fertilizer and mechanically incorporate in the top 2 inches of soil.</p> <p>Soil spray (broadcast or band): Apply in water or liquid fertilizer at planting. Move into soil as recommended in Application Instructions</p> <p>For banded applications, a 7-inch band is recommended.</p>
<p>Spinach Only</p>	<p>White Rust (<i>Albugo occidentalis</i>)</p> <p>Downy Mildew (<i>Peronospora effusa</i>)</p>	<p>0.50 pt./A (0.125)</p>	<p>Shank application: In addition to the preplant incorporated or soil surface application described above, shank in Mefenoxam 2E 21 days after planting or after the first cutting. Another application may be shanked in after the next cutting. A total of 2 shanked applications may be made on a 21-day interval.</p>

Additional Leafy Vegetables: Amaranth, Arugula, Cardoon, Celtuce, Chervil, Chinese Celery, Corn Salad, Dandelion, Dock (sorrel), Edible-Leaved Chrysanthemum, Endive (escarole), Florence Fennel (finocchio), Garden Cress, Garden Purslane, Garland Chrysanthemum, New Zealand Spinach, Orach, Radicchio (red chicory), Rhubarb, Swiss Chard, Upland Cress, Vine Spinach, and Winter Purslane,.

For additional applications, see Lettuce (head and leaf) in Part 2 of Directions for Use: Soil Directed and Other Foliar Applications.

- White rust can be controlled only in a preventive disease control program that begins with an application of Mefenoxam 2E at planting. **If Mefenoxam 2E is not applied at planting, do not use at any other time throughout the season.** Do not apply Mefenoxam 2E in foliar applications or make curative applications in situations where white rust is already established.
- Do not apply within 7 days of harvest (7 day PHI).
- Do not harvest spinach within 21 days of the last application (21 day PHI).
- Do not exceed the equivalent of 1.0 lb. a.i./A per crop of soil-applied and 0.4 lb. a.i./A per crop of foliar-applied mefenoxam containing products.
- For Spinach, do not exceed the equivalent of 1.0 lb. a.i./A per crop of soil-applied mefenoxam containing products at planting and either 0.25 lb. a.i./A per crop of soil-applied post planting, shanked-in applications of mefenoxam containing products or 0.4 lb. a.i./A per crop of foliar-applied mefenoxam containing products.

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Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
<p>Legume Vegetables (succulent or dried)</p> <p>Bean (<i>Lupinus</i> spp.) Bean (<i>Phaseolus</i> spp.) Bean (<i>Vigna</i> spp.) Chickpea Lentil Pea (<i>Pisum</i> spp.) Soybean (immature seed) (See also <i>Soybean</i> section for specific use directions.)</p> <p>Additional legume vegetables listed below.</p>	<p>Damping Off Root Rot (<i>Pythium</i> spp.)</p>	<p>1.0-2.0 pt./A (0.25-0.50)</p>	<p>Preplant incorporated (broadcast or band): Apply in water or liquid fertilizer and mechanically incorporate in the top 2 inches of soil.</p> <p>Soil spray (broadcast or band): Apply in water or liquid fertilizer at planting. Move into soil as recommended in Application Instructions.</p> <p>For banded applications, a 7-inch band is recommended.</p>

Additional Legume Vegetables:

- 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
- Pea (*Pisum* spp.): Dwarf, Edible-Pod, English, Field, Garden, Green, Snow, Sugar Snap
- Also Broad Bean (fava bean), Chickpea (garbanzo bean), Guar, Jackbean, Lablab Bean (hyacinth bean), Pigeon Pea, and Sword Bean.

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Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
<p>Onions</p> <p>Dry Bulb Garlic Onions (dry bulb) Shallots (dry bulb)</p> <p>Green Green Eschalots Green Onions Green Shallots Japanese Bunching Onions Leeks Spring Onions Scallions</p>	<p>Damping Off (<i>Pythium</i> spp.)</p>	<p>1.00-2.0 pt./A (0.25-0.50)</p>	<p>Preplant incorporated (broadcast or band): Apply in water or liquid fertilizer and mechanically incorporate in the top 2 inches of soil.</p> <p>Soil spray (broadcast or band): Apply in water or liquid fertilizer at planting. Move into soil as recommended in Application Instructions.</p> <p>For banded applications, a 7-inch band is recommended.</p>

- Onions (dry bulb): Do not exceed the equivalent of 1.0 lb. a.i./A per crop of soil-applied and 0.5 lb. a.i./A per crop of foliar-applied mefenoxam-containing products.
- Onions (green): Do not exceed the equivalent of 1.0 lb. a.i./A per crop of soil-applied and 0.3 lb. a.i./A per crop of foliar-applied mefenoxam-containing products.

Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
Peanuts	Pythium Root Rot (<i>Pythium</i> spp.)	0.50 pt./A (0.125)	<p>In-furrow spray: For seedling disease control, position the spray so the fungicide is mixed with the soil covering the seed. Avoid spraying the seed directly or crop injury may occur.</p> <p>Soil spray (banded): For banded applications, apply over the row. A 7-inch band is recommended. Move into soil as recommended in Application Instructions.</p>

For additional applications, see Peanuts in Part 2 of Directions for Use: Soil Directed and Other Foliar Applications.

Pineapple	Heart Rot Disease (<i>Phytophthora</i> spp.)	1.0-2.0 pt. in 100 gals. water (0.25-0.50)	Crown dip: Apply as a crown dip before planting. Amount of dip solution per acre will depend on crown size, plant density, and dipping techniques. Use 75-100 gallons of the mixture per acre for dipping.
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- If there is crop failure within one year of planting treated crowns, do not harvest plant material for animal feed.

Potatoes	Pythium Leak (<i>Pythium</i> spp.) Pink Rot (<i>Phytophthora erythroseptica</i>) Pythium Seedling Disease (<i>Pythium</i> spp.)	0.84 fl. oz./1,000 row ft. (0.013)	<p>In-furrow spray: Apply directly over the seed pieces in furrow as a 6-8 inch band prior to row closure or use markout application method (incorporated).</p> <p>You may need to follow this in-furrow application with a Ridomil Gold prepack foliar application at tuber initiation:</p> <ul style="list-style-type: none"> • When conditions are conducive for disease development. • When the variety is susceptible or moderately susceptible to Pink Rot/Pythium leak. • In areas with a long growing season. <p>Mefenoxam 2E may be impregnated on dry fertilizer or applied in combination with liquid fertilizers.</p>
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- Do not use the "dribble" application method.
- Do not exceed the equivalent of 0.188 lb. a.i./A per crop of soil-applied and 0.40 lb. a.i./A per crop of foliar-applied mefenoxam containing products.

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Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
<p>Root and Tuber Vegetables</p> <p>Artichoke (Chinese and Jerusalem)</p> <p>Beet, Garden Beet, Sugar (See <i>Sugar Beet</i> section for specific use directions.)</p> <p>Carrots (See <i>Carrots</i> section for specific use directions.)</p> <p>Ginseng (See <i>Ginseng</i> section for specific use directions.)</p> <p>Potato (See <i>Potato</i> section for specific use directions.)</p> <p>Radish Rutabaga Sweet Potato Turnip Yam, True</p> <p>Additional root and tuber vegetables listed below.</p>	<p>Pythium Root Rot (<i>Pythium</i> spp.)</p> <p>Phytophthora Root Rot (<i>Phytophthora</i> spp.)</p>	<p>1.0-2.0 qts./A (0.50-1.0)</p>	<p>Preplant incorporated (broadcast or band): Apply in water or liquid fertilizer and mechanically incorporate in the top 2 inches of soil. Use sufficient water to provide uniform coverage of soil.</p> <p>Soil spray (broadcast or band): Apply in water or liquid fertilizer at planting. Move into soil as recommended in Application Instructions.</p> <p>For banded applications, a 7-inch band is recommended.</p>

Additional Root and Tuber Vegetables: Arracacha, Arrowroot, Cassava (bitter and sweet), Celeriac (celery root), Chayote (root), Chicory, Chufa, Dasheen (taro), Edible Burdock, Edible Canna, Ginger, Horseradish, Leren, Oriental Radish (daikon), Parsnip, Salsify (oyster plant, black, Spanish), Skirret, Tanier (cocoyam), Turmeric, Turnip-Rooted Chervil, Turnip-Rooted Parsley, and Yam Bean (jicama, manioc pea).

Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
Soybeans	Phytophthora Root and Stem Rot (<i>Phytophthora megasprema</i>)	0.16-0.56 fl.oz./1,000 row ft. (0.0025 to 0.0087)	In-furrow spray: Apply in-furrow with water or liquid fertilizer. Position the spray so the fungicide is mixed with the soil covering the seed. Avoid spraying the seed directly or crop injury may occur. Use the high rate for full season control. Use 0.16-0.30 fl. oz. for early- to mid-season control.
	Pythium Damping Off (<i>Pythium spp.</i>)	0.74 -2.5 pts./A (0.18-0.63)	Soil spray (broadcast or band): Apply in water or liquid fertilizer. Use the high rate for full season control. Use 0.74-1.50 pt. for early- to mid-season control. For banded applications, a 7-inch band is recommended. Move into soil as recommended in Application Instructions.
<ul style="list-style-type: none"> ▪ For best results, use soybean varieties that have some degree of resistance to the races of <i>Phytophthora</i> present in the field. ▪ Use the higher rate in areas with a history of heavy <i>Phytophthora</i> damage. ▪ Under heavy late season <i>Phytophthora</i> pressure, Mefenoxam 2E may not provide complete control. 			
Sugar Beets	Pythium Root Rot (<i>Pythium spp.</i>)	1.0-2.0 qts./A (0.50-1.0)	<p>Preplant incorporated (broadcast or band): Apply in water or liquid fertilizer and mechanically incorporate in the top 2 inches of soil.</p> <p>Soil spray (broadcast or band): Apply in water or liquid fertilizer at planting. Move into soil as recommended in Application Instructions.</p> <p>For banded applications, a 7-inch band is recommended.</p>

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Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
Tobacco	Damping Off (<i>Pythium</i> spp.)	1.0-2.0 pt./A (0.25-0.50) or 0.50- 1.0 fl. oz./ 150 sq. yds.	Soil spray (broadcast): Apply as a preplant soil application before or at time of planting. Use higher application rate on broadleaf tobacco. Use 50 gals./A of water (2 gals. water/150 sq. yds.). Move into soil as recommended in Application Instructions
	Blue Mold (<i>Peronospora tabacina</i>)	1.0 -2.0 pt./A (0.25-0.50)	Soil spray (broadcast): Apply as a broadcast soil application prior to transplanting and incorporate in the top 2-4 inches of soil before forming beds. Use the low rate for low disease pressure or early-season control. Use the high rate for high disease pressure, extended control, and burley and other tobacco types other than flue-cured.
	Black Shank (<i>Phytophthora parasitica</i> var. <i>nicotianae</i>)	1.0-3.0 qts./A (0.50-1.5) For no-till tobacco: 1.0 -2.0 pt./A (0.25-0.50)	Soil spray (broadcast): Apply to the soil within one week of planting. Incorporate in the top 2-4 inches of soil. Use the high rate if the disease epidemic is expected to be severe. In FL and GA, use 3 qts./A where black shank is severe. Move into soil as recommended in Application Instructions. 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 sequential applications.

For additional applications, see Tobacco in Part 2 of Directions for Use: Soil Directed and Other Foliar Applications.

- 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 with a history of severe black shank, use the highest rate and plant a variety resistant to the race of *Phytophthora* present (Burley L8 hybrids are resistant to only *Phytophthora* Race 0).
- Do not use in high black shank areas on highly susceptible flue-cured varieties.
- Failure to adequately control nematodes in fields treated with Mefenoxam 2E may result in poor control of black shank.
- Do not use Mefenoxam 2E for black shank control in PA.
- Do not exceed the equivalent of 1.5 lb. a.i./A per crop of mefenoxam containing products.

Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
Tomato	Damping Off (<i>Pythium</i> spp.)	1.0-2.0 qts./A (0.50-1.0)	<p>Soil spray (broadcast or band): Apply at planting in water or liquid fertilizer. Move into soil as recommended in Application Instructions.</p> <p>For banded applications, a 7-inch band is recommended.</p>
	Root and Fruit Rot (<i>Phytophthora</i> spp.) (<i>Pythium</i> spp.)	1.0 qt./A (0.50)	<p>Injection (drip irrigation): Initiate control of Root and Fruit Rot with a soil application as described above. Make subsequent applications through drip irrigation. Make the first drip application 4-6 weeks after planting. Apply the second drip application as needed up to 4 weeks before harvest, but before the last irrigation.</p> <p>For injected applications, base rate calculations on a 7-inch band.</p>

For additional applications, see Tomato in Part 2 of Directions for Use: Soil Directed and Other Foliar Applications.

- Do not exceed the equivalent of 1.5 lbs. a.i./A per crop of soil-applied mefenoxam-containing products and 0.5 lb. a.i./A per crop of foliar-applied mefenoxam-containing products.

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DIRECTIONS FOR USE – PART 2

SOIL DIRECTED AND OTHER FOLIAR APPLICATIONS

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

Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
Alfalfa (including birdsfoot trefoil)	Damping Off (<i>Pythium</i> spp.) Root Rot (<i>Phytophthora</i> spp.)	0.50 pt./A (0.12)	Soil spray (broadcast): Apply as a broadcast soil surface spray at planting when inter-seeding into existing stands for renovation.

For additional applications, see Alfalfa in Part 1 of Directions for Use: Soil-Injected or Soil-Incorporated Applications.

- Do not feed green forage or cut hay for 60 days following application (60 day PHI).
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Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks							
Apple Bearing and Nonbearing Trees	Crown Rot Collar Rot Root Rot <i>Phytophthora</i> spp.)	4 qts./A (2.0) or 3.0 fl. oz./1,000 sq. ft.	Soil spray (broadcast or band): Apply to the soil in the early spring before growth starts and in the fall after harvest, but before the ground freezes. The treated area is based on the area under the tree canopy or the area of the sprayed row. Use sufficient water volume to obtain thorough coverage of the soil. Move into soil as recommended in Application Instructions.							
		Diluted Mixture: 1.0 pt. in 100 gals. water (0.25)	Soil drench: Apply the diluted mixture around the trunk of each tree in the early spring before growth starts and in the fall after harvest, but before the ground freezes. On new plantings, delay the first application until 2 weeks after planting. <table border="1"> <thead> <tr> <th>Trunk diameter at 12 inches above the soil line</th> <th>Quantity of Diluted Mixture</th> </tr> </thead> <tbody> <tr> <td><1 inch</td> <td>1 qt.</td> </tr> <tr> <td>1-3 inches</td> <td>3 qts.</td> </tr> <tr> <td>>5 inches</td> <td>4 qts.</td> </tr> </tbody> </table>		Trunk diameter at 12 inches above the soil line	Quantity of Diluted Mixture	<1 inch	1 qt.	1-3 inches	3 qts.
Trunk diameter at 12 inches above the soil line	Quantity of Diluted Mixture									
<1 inch	1 qt.									
1-3 inches	3 qts.									
>5 inches	4 qts.									
<ul style="list-style-type: none"> ▪ Apply before symptoms appear. Mefenoxam 2E will not revitalize trees showing moderate to severe disease symptoms. ▪ Use Mefenoxam 2E in conjunction with good cultural practices and rootstocks that are most tolerant to disease. ▪ Do not graze or feed cover crops in treated orchards. 										
Asparagus	Crown Rot Spear Rot <i>Phytophthora</i> spp.)	1.0 qt./A (0.50)	Soil spray (broadcast or band) Cutting Beds: Apply 30 to 60 days before the first cutting. Apply again just before the beginning of harvest. Move into soil as recommended in Application Instructions. New Plantings: Apply after planting seedlings or after covering one-year old crowns.							
<ul style="list-style-type: none"> ▪ Do not apply within one day of harvest (1 day PHI). 										

Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
Avocados	Root Rot (<i>Phytophthora cinnamomi</i>)	1.0-4.0 qts./A (0.50-2.0)	<p>Sprinkler irrigation: Apply as a soil surface spray to the soil surface under the tree canopy. Begin applications at the start of the growing season or at transplanting. Two additional applications may be made at 3-month intervals. Applications are not needed during the winter months of November through February.</p> <p>Use 1.0 qt./acre if the trees have a canopy diameter of 2 ft. Increase the rate as the canopy diameter increases. For canopy diameters of 15 ft. or more, use the 4.0 qt./acre rate.</p> <p>Soil Spray: Apply to the soil directly under the drip emitter. Use irrigation to incorporate the material into the soil. If there is more than one emitter, distribute the amount of Mefenoxam 2E among the emitters. Use the same rate and application regime described above under sprinkler irrigation.</p>

For additional applications, see Avocados in Part 1 of Directions for Use: Soil-Injected or Soil-Incorporated Applications.

- Begin applications as soon as soil tests indicate the presence of Phytophthora.
- For new plantings, use Phytophthora resistant rootstocks.
- Mature trees in moderate to advanced stages of decline cannot be cured with Mefenoxam 2E.
- Do not apply within 28 days of harvest (28 day PHI).
- Do not exceed the equivalent of 6.0 lbs. a.i./A per crop of soil-applied mefenoxam containing products.

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Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
Blueberries	Root Rot (<i>Phytophthora</i> spp.)	7.2 pts./A (1.8) or 0.50 pt./1,000 row ft.	<p>Soil spray (broadcast or band) New Plantings: Apply at the time of planting. For band applications, use an 18-inch band. Move into soil as recommended in Application Instructions.</p> <p>Reapply once during a period favorable for root rot (See directions for <i>Established Plantings</i> below).</p>
		7.2 pts./A (1.8)	<p>Soil spray (band) Established Plantings: Make applications in a 3-ft. band over the row before the plants start to grow in the spring. One additional application may be made to coincide with the period most favorable for root rot development. Move into soil as recommended in Application Instructions.</p>

- Mefenoxam 2E will not revitalize plants showing moderate to severe root rot symptoms.
- Use Mefenoxam 2E in conjunction with good cultural practices to minimize disease.
- Mefenoxam 2E may be applied the day of harvest.
- Do not exceed the equivalent of 3.6 lbs. a.i./A per crop of soil-applied mefenoxam containing products.

Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
<p>Citrus</p> <p>Calamondin Citrus Citron Citrus hybrids (chironja, tangelo, tangor) Grapefruit Kumquat Lemon Lime Mandarin (tangerine) Orange (sour and sweet) Pummelo Satsuma Mandarin</p>	<p>Citrus Foot Rot Root Rot Trunk Canker Brown Rot Gummosis</p> <p>(<i>Phytophthora</i> spp.)</p>	<p>2.0-4.0 qt./A (1.0-2.0)</p>	<p>Citrus Resets or New Plantings: Make the first application at the time of planting. Apply to soil beneath the tree canopy or apply through irrigation water (micro-sprinkler or drip). Make up to 2 additional applications per year at 3 month intervals or when root growth flushes occur.</p> <p>In FL, PR, and TX, apply 2.0 qt./A as a soil spray or 1 pt. per grove acre through injection. Two or three applications per year are recommended (spring + summer, summer + fall, or spring + summer + fall).</p>
		<p>2.0-3.0 fl. oz./ 100 gal. water</p>	<p>Water ring drench: Apply 5 gal. of the mix around the base of each tree within the watering ring of resets or new plantings.</p>
		<p>1.0 qt.-6.0 qt./A (0.5-3.0)</p>	<p>Established Plantings: Apply to soil beneath the tree canopy or apply through irrigation water (micro-sprinkler or drip). Begin Mefenoxam 2E applications during the spring root flush period. One or two additional applications may be made to coincide with flushes of root growth. Use 1.0-2.0 qt./A when 3 applications are planned and 3.0 qt./A for 2 applications.</p> <p>In FL, PR, and TX, apply 1.0 pt./A as a spray or ½ pt. per grove acre through injection to groves that have a <i>Phytophthora</i> propagule count of 10-20 per cubic centimeter of soil. Where propagule counts are above 20 per cubic centimeter, apply 1 qt./A as a spray or 1.0 pt. per grove acre through injection. Time applications as in the Citrus Resets or New Plantings section above.</p>
		<p><u>2 qt. in 3 gal. water</u> (1.0)</p>	<p>Trunk Spray for Gummosis: Spray the trunks to thoroughly wet the cankers. Apply up to 3 times per year.</p> <p>In FL, add 1.0 qt. to 10 gal. of water.</p>

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- Consult local extension bulletins for additional use directions.
- Do not apply to bare roots.
- Do not apply rates higher than 2 qt./A to citrus resets or new plantings (less than 5 years old) in FL, PR and TX to prevent potential phytotoxicity.
- Do not use on the highly susceptible sweet orange rootstock in FL.
- Do not make trunk gummosis sprays and soil applications to the same tree in the same cropping season.
- Do not apply tank mixes of Mefenoxam 2E and residual herbicides to trees less than 3 years old. Apply the herbicide first; then wait 3-4 weeks to apply Mefenoxam 2E.
- Do not exceed the equivalent of 6.0 lbs. a.i./A per crop of mefenoxam containing products.

<p>Cranberries</p>	<p>Phytophthora Root Rot (<i>Phytophthora</i> spp.)</p>	<p>1.0-1.75 qts./A (0.50-0.90)</p>	<p>Soil spray (broadcast): Apply 3 times by ground or chemigation equipment. Make the first application in the fall after harvest. Make the second application in the spring, and the final application up to, but no later than, 45 days before harvest. Move into soil as recommended in Application Instructions.</p>
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- Do not apply by air.
- Do not apply within 45 days of harvest (45 day PHI).
- Do not exceed the equivalent of 2.65 lbs. a.i./A per crop of soil-applied mefenoxam containing products.

Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
<p>Cucurbits</p> <p>Cucumber Cantaloupe Honeydew Pumpkin Squash, Summer Squash, Winter Watermelon</p> <p>All hybrids and varieties of these.</p> <p>Additional cucurbits listed below.</p>	<p>Root Rot (<i>Pythium</i> spp.)</p>	<p>0.50-0.80 pt./A (0.125-0.20)</p>	<p>Soil spray (directed): If soil applications of Mefenoxam 2E were made at planting, two supplemental applications at 20 to 30 day intervals may be made during the season.</p> <p>Direct the spray to the base of the plants and cover 6-8 inches of the soil on either side of the plants. Incorporate mechanically or sprinkler-irrigate to move the Mefenoxam 2E into the root zone.</p> <p>Injection (drip irrigation): Inject Mefenoxam 2E into the irrigation water at the recommended rates.</p>

Additional Cucurbits: Chayote, Chinese Waxgourd, Citron Melon, Edible Gourd – *Momordica* spp. (balsam apple, balsam pear, bitter melon, Chinese cucumber), Gherkin, and Muskmelon (casaba, crenshaw, golden pershaw, honey balls, mango, Persian, pineapple, Santa Claus, snake melons).

For additional applications, see Cucurbits in Part 1 of Directions for Use: Soil-Injected or Soil-Incorporated Applications.

- Do not apply within 5 days of harvest (5 day PHI).
- Do not exceed the equivalent of 1.0 lb. a.i./A per crop of soil-applied and 0.5 lb. a.i./A per crop of foliar-applied mefenoxam containing products.

Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
<p>Fruiting Vegetables (Except Cucurbits)</p> <p>Eggplant Groundcherry Pepino Pepper (bell, chili, cooking pepper, pimento, sweet) Tomatillo Tomato (see <i>Tomato</i> section for specific use directions)</p>	<p>Crown Rot (<i>Phytophthora capsici</i>)</p>	<p>1.0 qt./A (0.50)</p>	<p>Banded spray: Make 2 post-directed applications at 30-day intervals following transplanting. Direct the spray to the base of the plants and cover 6-8 inches of the soil on either side of the plants. Incorporate mechanically or sprinkler-irrigate to move the Mefenoxam 2E 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>

For additional applications, see Fruiting Vegetables in Part 1 of Directions for Use: Soil-Injected or Soil-Incorporated Applications.

- May cause some yellowing of pepper leaves.
- Apply before the plants are infected to obtain satisfactory control. Plants already infected with *Phytophthora* cannot be cured with Mefenoxam 2E.
- The foliar blight phase of *Phytophthora* cannot be controlled with foliar applications of Mefenoxam 2E.
- Do not apply within 7 days of harvest (7 day PHI).
- Do not exceed the equivalent of 1.5 lbs. a.i./A per crop of soil-applied mefenoxam containing products and 0.5 lb. a.i./A per crop of foliar-applied mefenoxam containing products.

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Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
<p>Herbs (Fresh and Dried)</p> <p>Basil Chervil (dried) Chive Coriander (leaf) Cilantro (leaf) Dillweed Lemongrass Parsley (dried) Rosemary Sage Savory, Summer and Winter Sweet Bay Tarragon Thyme</p> <p>Additional herbs listed below.</p>	<p>Damping Off (<i>Pythium spp.</i>)</p>	<p>1.0-2.0 qts./A (0.50-1.0)</p>	<p>Banded spray: Apply as a basally directed spray at 28 days after planting or after the first cutting. Direct the spray toward the base of the plants and cover 6-8 inches on each side of the plants (12-16 inch band width/row).</p>

Additional Herbs: Angelica, Balm, Borage, Burnet, Camomile, Catnip, Chinese Chive, Clary, Costmary, Curry (leaf), Horehound, Jyssop, Lavender, Lovage (leaf), Marigold, Marjoram, Nasturtium, Pennyroyal, Rue, Tansy, Wintergreen, Woodruff, and Wormwood.

For additional applications, see Herbs in Part 1 of Directions for Use: Soil-Injected or Soil-Incorporated Applications.

- Do not apply within 21 days of harvest (21 day PHI).
- Do not exceed the equivalent of 2.0 lb. a.i./A per crop of soil-applied mefenoxam containing products.

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Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
Hops	Downy Mildew (<i>Pseudoperonospora humuli</i>)	1.0 pt./A (0.25)	<p>Soil drench: Apply in water or liquid fertilizer to the soil over the crowns after pruning but before training. Apply early when shoots are 6 inches or less.</p> <p>Foliar spray: At first sign of a secondary infection (primary infection persists after the soil drench and/or there is evidence of foliar infection), apply in combination with copper fungicides. Apply by ground with a minimum of 50 gals. of water per acre.</p>

- Do not apply foliar sprays of Mefenoxam 2E without a copper fungicide registered for hops.
- Do not apply within 45 days of harvest (45 day PHI).
- Do not exceed the equivalent of 0.25 lb. a.i./A per crop of soil-applied and 0.5 lb. a.i./A per crop of foliar-applied mefenoxam containing products.

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Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
Lingonberry	Root Rot (<i>Phytophthora</i> spp.)	7.2 pts./A (1.8) or 0.50 pt./1,000 row ft. (0.125)	<p>Soil spray: On new plantings, apply as a broadcast or banded spray to the soil at or after the time of planting. For banded applications on new plantings, an 18-inch band over the row is recommended. Move into soil as recommended in Application Instructions.</p> <p>On established plantings, apply in a 3-ft. band over the row before the plants start growth in the spring. Move into soil as recommended in Application Instructions.</p> <p>A second application may be made to coincide with periods most favorable for root rot development.</p>

- May be applied the day of harvest (0 day PHI).
- Do not exceed the equivalent of 3.6 lbs. a.i./A per crop of soil-applied mefenoxam containing products.

Peanuts	Pod Rot (<i>Pythium</i> spp.)	1.0 - 2.0 pt./A (0.25-0.50)	Apply at early pod set as a soil spray or at pegging as a foliar spray (overhead irrigation).
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For additional applications, see Peanuts in Part 1 of Directions for Use: Soil-Injected or Soil-Incorporated Applications.

Potatoes	Pythium Leak (<i>Pythium</i> spp.) Pink Rot (<i>Phytophthora erythroseptica</i>)	6.4 oz/A (0.10)	For storage rot control, apply Mefenoxam 2E at flowering and repeat with a second application 14 days later. If the field has a history of storage rot problems, make a third application 14 days after the second application. If conditions favor the development of foliar diseases, a tank mix or premix product with chlorothalonil or mancozeb is recommended.
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- Do not exceed the equivalent of 0.188 lb. a.i./A per crop of soil-applied and 0.40 lb. a.i./A per crop of foliar-applied mefenoxam containing products.
- Do not apply within 14 days of harvest

Raspberries	Phytophthora Root Rot (<i>Phytophthora</i> spp.)	0.50 pt./1,000 row ft. (0.125)	Apply in a 3-foot band in the spring and in the fall after harvest.
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- Do not apply within 45 days of harvest (45 day PHI).

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Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
<p>Stone Fruits</p> <p>Apricot Cherry (sweet and tart) Nectarine Peach Plum (chickasaw, damson, Japanese) Plumcot Prune (fresh)</p> <p>All hybrids or cultivars of these.</p>	<p>Crown Rot Collar Rot Root Rot</p> <p>(<i>Phytophthora</i> spp.)</p>	<p>4.0 qts./A (2.0)</p> <p>or</p> <p>3.0 fl. oz./ 1,000 sq. ft.</p>	<p>Soil spray (broadcast or band): Apply under the tree canopy to cover the root zone two weeks after planting (new plantings) or in the spring before growth begins (established plantings). Move into soil as recommended in Application Instructions.</p> <p>Additional applications may be made at 2-3 month intervals, depending on disease pressure. Make up to 3 applications per year.</p> <p>Apply before symptoms appear. Mefenoxam 2E will not revitalize trees showing moderate to severe disease symptoms.</p> <p>For intense plantings (2-3 times the normal planting rate), apply on a per area basis (1,000 sq. ft.).</p>

- Do not concentrate spray around tree trunks.
- Do not apply to trees under stress.
- In CA, do not apply to newly planted trees within 45 days of planting. On some varieties, chlorosis may occur on leaf margins.
- Do not graze livestock in treated areas.
- Do not graze or feed cover crops grown in treated orchards.
- Do not exceed the equivalent of 6.0 lbs. a.i./A per crop of soil-applied mefenoxam containing products.

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Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
Strawberries	<p>Red Stele (<i>Phytophthora fragariae</i>)</p> <p>Vascular Collapse (<i>P. cactorum</i>)</p> <p>Leather Rot (<i>P. cactorum</i>)</p>	1.0 qt./A (0.50)	<p>Soil spray (banded) or drip irrigation</p> <p>Annual Plantings: Apply up to 3 times per crop. Make first application after transplanting. Make the second application 30 days before the beginning of harvest or at fruit set. Apply the third application during harvest, depending on disease pressure and environmental conditions. Move into soil as recommended in Application Instructions.</p> <p>Established Plantings: Apply up to 3 times per crop. Make first application in the spring after the ground thaws and before first bloom. Make a second application after harvest in the fall. For control of leather rot, make a supplemental application during the growing season at fruit set. Move into soil as recommended in Application Instructions.</p> <p>If applying through drip irrigation, calculate the rate as a band application with a band width equal to the root zone width. Inject Mefenoxam 2E into the irrigation water.</p>

- Mefenoxam 2E may be applied the day of harvest.
- Do not exceed the equivalent of 1.5 lbs. a.i./A per crop of soil-applied mefenoxam containing products.

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Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
Tobacco	Blue Mold (<i>Peronospora tabacina</i>)	1.0 pt./A (0.25) For no-till tobacco: 1.0 -2.0 pt./A (0.25-0.50)	Soil spray (band): If Mefenoxam 2E was applied prior to transplanting, make a supplemental application at lay-by or the last cultivation. Position the nozzles so the spray is deposited under the plants and is covered by the soil in cultivation. Move into soil as recommended in Application Instructions.
	Black Shank (<i>Phytophthora parasitica</i> var. <i>nicotianae</i>)	1.0-2.0 qts./A (0.50-1.0) For no-till tobacco: 1.0 - 2.0 pt./A (0.25-0.50)	Soil Spray (broadcast or band): Position the nozzles so the spray is deposited under the plants and covered with soil by the cultivator. Use the high rate if the disease epidemic is expected to be severe. Make one application at lay-by or make one application at the first cultivation and a second application at lay-by. Move into soil as recommended in Application Instructions. 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 sequential applications.

For additional applications, see Tobacco in Part 1 of Directions for Use: Soil-Injected or Soil-Incorporated Applications.

- 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 with a history of severe black shank, use the highest rate and plant a variety resistant to the race of *Phytophthora* present (Burley L8 hybrids are resistant to only *Phytophthora* Race 0).
- Do not use in high black shank areas on highly susceptible flue-cured varieties.
- Failure to adequately control nematodes in fields treated with Mefenoxam 2E may result in poor control of black shank.
- Do not use Mefenoxam 2E for black shank control in PA.
- Do not exceed the equivalent of 1.5 lb. a.i./A per crop of mefenoxam containing products.

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Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
Tomato	Root and Fruit Rot (<i>Phytophthora</i> spp.) (<i>Pythium</i> spp.)	1.0 qt./A (0.50)	<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 soil as recommended in Application Instructions.</p> <p>Make application 4-6 weeks after planting. If needed, make a second application up to 4 weeks before harvest, but before the last irrigation.</p>

For additional applications, see Tomato in Part 1 of Directions for Use: Soil-Injected or Soil-Incorporated Applications.

- Do not exceed the equivalent of 1.5 lbs. a.i./A per crop of soil-applied mefenoxam containing products and 0.5 lb. a.i./A per crop of foliar-applied mefenoxam containing products.

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Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
<p>Tree Nuts</p> <p>Almonds Walnuts</p>	<p>Crown Rot Collar Rot Root Rot</p> <p>(<i>Phytophthora</i> spp.)</p>	<p>4.0 qts./A (2.0)</p> <p>or</p> <p>3.0 fl. oz./ 1,000 sq. ft.</p>	<p>Soil spray (broadcast or band): Apply under the tree canopy to cover the root zone two weeks after planting (new plantings) or in the spring before growth begins (established plantings). Move into soil as recommended in Application Instructions.</p> <p>Additional applications may be made at 2-3 month intervals, depending on disease pressure. Make up to 3 applications per year.</p> <p>Apply before symptoms appear. Mefenoxam 2E will not revitalize trees showing moderate to severe disease symptoms.</p> <p>For intense plantings (2-3 times the normal planting rate), apply on a per area basis (1,000 sq. ft.).</p>

- Do not concentrate spray around tree trunks.
- Do not apply to trees under stress.
- In CA, do not apply to newly planted trees within 45 days of planting. On some varieties, chlorosis may occur on leaf margins.
- Do not graze livestock in treated areas.
- Do not graze or feed cover crops grown in treated orchards.
- Do not exceed the equivalent of 6.0 lbs. a.i./A per crop of soil-applied mefenoxam containing products.

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Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
Tropical Fruit Black Sapote Canistel Mamey Sapote Mango Papaya Sapodilla Star Apple	Damping Off (<i>Pythium</i> spp.) Root Rot (<i>Phytophthora</i> spp.)	1.5-3.0 qts./A (0.75-1.5)	<p>Soil Drench: Apply in sufficient water or liquid fertilizer to provide an adequate soil drench. Measure the amount of water required to drench one plant (approximately one square foot of soil around each plant). Multiply that volume by the number of plants per acre to determine the total water volume per acre. Add Mefenoxam 2E to this amount of water and drench plants.</p> <p>Two applications may be made per growing season. Make the first application at transplanting or in the spring at root growth flush. Apply the second application up to 30 days prior to harvest.</p>
<ul style="list-style-type: none"> ▪ Do not apply Mefenoxam 2E as a soil drench if Ridomil Gold Copper will be used as a trunk and foliage spray. ▪ Do not apply within 30 days of harvest (30 day PHI). 			
Tropical Fruit Atemoya Cherimoya Custard Apple Ilima Soursop Birida Sugar Apple	Damping Off (<i>Pythium</i> spp.) Root Rot (<i>Phytophthora</i> spp.)	1.5-3.0 qts./A (0.75-1.5)	<p>Soil Drench: Apply in sufficient water or liquid fertilizer to provide an adequate soil drench. Make one application in the spring when root growth begins and a second application in the fall. Direct applications to the soil surface under the canopy of the trees.</p>
<ul style="list-style-type: none"> ▪ Do not apply within 30 days of harvest (30 day PHI). 			
Tropical Fruit Starfruit	Phytophthora Root and Crown Rot (<i>Phytophthora</i> spp.) Pythium Root and Crown Rot (<i>Pythium</i> spp.)	1.5-3.0 qts./A (0.75-1.5)	<p>Soil Drench: Apply in sufficient water or liquid fertilizer to provide an adequate soil drench. Make one application in the spring when root growth begins and a second application in the fall. Direct applications to the soil surface under the canopy of the trees.</p>
<ul style="list-style-type: none"> ▪ Do not apply within 30 days of harvest (30 day PHI). 			

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Crop	Target Diseases (Pathogen)	Use Rate (lb. a.i.)	Remarks
Tropical Fruit Kiwifruit	Root and Crown Rot (<i>Pythium</i> and <i>Phytophthora</i> spp.)	11.2-22.4 oz./ 40 gals. of water (0.175-0.35)	Apply 1.0 qt. of Mefenoxam 2E solution as a soil drench in a one square foot area around the base of each vine. At the recommended rate of 11.2 – 22.4 oz., this will apply 0.175-0.350 lb. a.i./A if the planting density is 160 vines per acre. Make the first application in the fall after harvest or in February or early March. Make a second application in spring or approximately 60 days after the February or March application. Move into soil as recommended in Application Instructions.

- Do not apply within 200 days of harvest (200 day PHI)
- Do not apply more than 1.4 pts./A (0.70 lb. a.i./A) Mefenoxam 2E per growing season.

STORAGE AND DISPOSAL

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

Pesticide Storage

Do not use, pour, spill, or store near heat or open flame.

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 label instructions must be disposed of according to federal, state, or local procedures. For guidance in proper disposal methods, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office.

Container Disposal/Handling

Non-refillable container. Do not reuse or refill this empty container. Offer for recycling if available. 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 ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use and disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or conditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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