Longwind

MEFENOXAM	GROUP	4	FUNGICIDE

FALCHION FUNGICIDE

For control of diseases on ornamental plants; ornamental bulb, corm, and tuber plants; conifers and conifer nurseries; Christmas trees and Christmas tree plantations; forest plantations; forest nurseries; and non-bearing citrus trees and fruit and nut plants grown in greenhouses and nurseries (including field- and container-grown plants grown outdoors and in shade houses, lath houses and other production sites and structures), retail nurseries, residential and commercial landscapes, and interior plantscape ornamentals

ACTIVE INGREDIENT:	**By Wt**
Mefenoxam: D-Alanine, N-(2,6-dimethylphenyl)-N-(methoxyacetyl)-, methyl ester	24.3%
OTHER INGREDIENTS	75.7%
TOTAL	100%

Contains Petroleum Distillates.
Contains 2 pounds mefenoxam per gallon.

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 INSIDE LABEL BOOKLET FOR FIRST AID AND PRECAUTIONARY STATEMENTS

FIRST AID	
IF IN EYES:	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING:	• Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	• 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.

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In the event of a leak, fire or medical emergency involving a human or animal please call INFOTRAC at 1-800-535-5053 or Outside the USA and Canada at 1-352-323-3500,24/7/365 .
Physician Note: Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

EPA Reg. No. 103087- 12
Manufactured for:
Longwind Cropscience USA LLC
8 THE GREEN, STE A, DOVER, Kent, DE, 19901

EPA Est. No.: 95055-CHN-1
NET CONTENTS
☐1Gal ☐2.5Gal ☐5Gal ☐10Gal

PRECAUTIONARY STATEMENTS
Hazards to Humans and Domestic Animals
CAUTION

Causes substantial but temporary eye injury. Harmful if swallowed. Harmful if absorbed through skin. **DO NOT** get in eyes or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)
Applicators and other handlers must wear:
- Wear goggles, safety glasses, or face shield,
- Wear long-sleeved shirt and long pants,
- Socks and shoes,
- Chemical-resistant gloves: Barrier Laminate or Viton ≥ 14 mils

User Safety Requirements
Follow manufacturer s instructions for cleaning/maintaining PPE. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them.

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

User Safety Recommendations
Users should:
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards
DO NOT apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. **DO NOT** apply when weather conditions favor drift from treated areas. **DO NOT** contaminate water when disposing of equipment wash waters or rinsate.

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

Physical or Chemical Hazards
DO NOT use, pour, spill, or store near heat or open flame. **DO NOT** mix or allow contact with oxidizing agents. Hazardous chemical reaction may occur. **DO NOT** mix with fire suppressants, i.e. monoammonium phosphate (MAP). Hazardous chemical reaction may occur.

DIRECTIONS FOR USE

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

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

Maximum usage when applying both metalaxyl- and mefenoxam-containing products to the same crop within the same year: 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.

Failure To Follow The Directions For Use And Precautions On This Label May Result In Poor Disease Control Or Crop Injury.

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, 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.

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

- There is no restricted-entry interval (REI) requirement following soil injection, soil incorporated, or a soil drench application to ornamentals.

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, including plants, soil, or water is:

- Coveralls
- Chemical-resistant gloves made of barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinyl chloride PVC ≥ 14 mils, or Viton® ≥ 14 mils
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

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

DO NOT enter or allow others to enter until sprays have dried.

PRODUCT INFORMATION

FALCHION is a systemic fungicide for use on ornamental plants; ornamental bulb, corm, and tuber plants; conifers and conifer nurseries; Christmas trees and Christmas tree plantations; forest plantations; forest nurseries; and non- bearing citrus trees and fruit and nut plants grown in greenhouses and nurseries (including field- and container- grown plants grown outdoors and in shade houses, lath houses, and other production sites and structures), retail nurseries, residential and commercial landscapes, and interior plantscape ornamentals; vegetable transplants grown for retail sale to consumers; and turf.

FALCHION provides control of damping off, root and stem diseases caused by Pythium and *Phytophthora spp.*,and foliar diseases including downy mildew and those caused by *Phytophthora spp.*, including *Phytophthora ramorum*.

PLANT SAFETY

Notice To User: Due to the large number of species and varieties of ornamentals and nursery plants, it is impossible to test every one for tolerance to this product and tank mixtures with this product. Neither the manufacturer northe seller has determined whether or not **FALCHION** can be used safely on ornamental and nursery plants not specified on this label. The applicator must determine if this product and tank mixtures with other fungicides can be used safely prior to commercial use. In a small area, test the labeled rates for a particular group of unlabeled plants, i.e., bedding plants, foliage, etc., for phytotoxicity prior to widespread use.

Resistance Management

For resistance management, **FALCHION** contains a Group 4 phenylamide 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 at the same use site. Follow appropriate resistance management strategies.

Mefenoxam is a systemic fungicide belonging to the phenylamide class of chemistry which adversely affects fungal RNA synthesis.

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

- Rotate the use of **FALCHION** 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. Using predictive models alone is not sufficient to manage resistance.
- Monitor treated fungal populations for resistance development.
- Contact your local Longwind Cropscience USA LLC representative, retailer, or extension specialist for any additional pesticide resistance-management and/or IPM guidelines for specific plants and pathogens.
- For information or to report suspected resistance, contact Longwind Cropscience USA LLC at 86-21-64881723. You can also contact your pesticide distributor or university extension specialist to report resistance.

Applications targeted for downy mildew diseases must always be in a tank mixture with a non-Group 4 fungicide.

For foliar applications to ornamentals and conifers, **DO NOT** make more than one (1) application before alternating with a non-Group 4 fungicide for sequential foliar applications. For all other applications, **DO NOT** make more than two (2) sequential applications of **FALCHION** before alternating with a non-Group 4 fungicide. An example of a sound resistance management program would include two (2) **FALCHION** applications (one could be a foliar application) followed by two (2) non-Group 4 fungicide applications.

APPLICATION DIRECTIONS

Application through Irrigation Systems (Chemigation)

FALCHION alone or in tank mixture with other pesticides registered for application through irrigation systems may be applied in irrigation water at rates specified on this label. This product may be applied through micro sprinkler or drip irrigation systems. **DO NOT** apply this product through any other type of irrigation system.

Chemigation Precautions

- Plant injury or lack of effectiveness may result from non-uniform distribution of treated water.
- If you have questions about calibration, you must contact State Extension Service specialists, equipment manufacturers, or other experts.

Chemigation Restrictions

- **DO NOT** connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system, unless the label-prescribed safety devices for public water supplies are in place.
- A person knowledgeable ofthe chemigation system and responsible for its operation shall shut the system down and make necessary adjustments if the need arise.

Application Directions For Irrigation Systems (Chemigation)

- **FALCHION** must be applied on the schedule specified in the use specifications, not according to the irrigation schedule.
- Only pressure injection or Venturi equipment may be used.
- The following calibration and application techniques are provided for user reference, but **DO NOT** constitute a warranty of fitness for application through sprinkler irrigation equipment. Users must check with state and local regulatory agencies for potential use restrictions before applying any agricultural chemical through sprinkler irrigation equipment.

Calibration Instructions

- Each run of the irrigation system must be calibrated separately to determine the time it takes water to move through the system and to make sure all emitters in the system are putting out the same amount of water.
- Determine the area to be treated in each irrigation run.
- Measure the output of each of the emitters or drip tubes closest to and farthest from the injector site.
- For calibration, substitute a concentrated detergent (for example Wisk) for the **FALCHION** in the injector tank. It is important to use the same volume of soap solution as the planned volume of **FALCHION** solution when calibrating the system. The detergent will bubble as it leaves the emitters. The time period over which bubbles occur must be checked for both the closest and farthest emitters. If these times are not within 2 minutes of each other, adjust the dilution ratio and/or the injection rate.

Step-by-Step Calibration and Application Instructions

- Before starting to calibrate, operate the system until all the emitters are putting out at equal flow rates or until the system is operating at full pressure.
- Make up an indicator solution of detergent or fertilizer, using the same ratio to be used with mixing **FALCHION**.
- Set the injector to apply the indicator solution at the injection rate to be used in the actual **FALCHION** application.
- Attach a 5-inch length of flexible tubing over the emitter closest to the injection point, another length over the emitter farthest away. Both emitters must be monitored to determine the time intervals that the indicator solutions are observed.
- Begin injecting the indicator solution. Direct the flow from the tubes at the emitters into a small container. Begin timing when the indicator solution is first detected, stop timing when the indicator solutions are no longer detected.
- If the period of detection of the indicator solution between the 2emitters are within 2 minutes of each other, comparable coverage will be obtained. If they are not, make adjustments by increasing the dilution ratio, using more water per part of this product, or adjust the injector to a slower flow rate.
- Once the system is calibrated, dilute the needed amount of this product with water and any other tank mix partners in the injection tank using a minimum of 15 parts water to 1 part of **FALCHION** in the solution tank. Liquid fertilizer may replace all or part of the water. If diluted in liquid fertilizer, the pH level must be less than 7.5. Follow the directions for mixing and equipment setup in the **Mixing Instructions** section of this label.
- **DO NOT** begin to inject **FALCHION** into the system until all emitters are producing equal flow rates, or until the system is at full pressure. Inject this product solution at a ratio of 50:1 or greater.
Injecting a larger volume of a more dilute mixture will usually allow a more accurate calibration of the metering equipment.
- Inject the **FALCHION** into the system at the beginning of the irrigation set in ½ to 1 inch of irrigation water.

Safety Devices For Irrigation Systems Not Connected To A Public Water Supply

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 the pesticide distribution is adversely affected.
6. Systems must use a metering pump, for example 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.

Safety Devices For Irrigation Systems Connected To public Water Supplies

If the source of water for your irrigation system is a public water supply, follow the instructions below.

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, 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, water from the public water system must 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 shutdown.
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, for example 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.

ROTATIONAL CROP RESTRICTIONS

Crops listed in this label may be replanted immediately in soil treated with mefenoxam. All other crops may not be planted in mefenoxam-treated soil for a period of 12 months.

SPRAY DRIFT MANAGEMENT

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SIDE 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 specified 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.

BOOM HEIGHT – GROUND BOOM
Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. For ground equipment, keep the boom level with the crop and have minimal bounce.

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 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.

METHODS OF APPLICATION
FALCHION may be applied through traditional spray equipment or through irrigation systems as a soil drench, soil surface (broadcast or banded), or as a stem and foliar spray. This product may also be incorporated into a pre-potting growing media for subsequent seeding or transplanting of ornamentals. Refer to **Ornamental Use Directions, Conifer Use Directions, and Vegetable Transplants Grown for Retail Sales to Consumers** for specific use directions in addition to those given below. Refer to **Application through Irrigation Systems (Chemigation) for chemigation instructions.**

PRE-POTTING GROWING MEDIA MIX
Combine the specified rate of **FALCHION** in Ornamental Use Directions into 1.0 gallon of water. Uniformly mix this solution onto one (1) cubic yard of growing media. Uniform mixing can be accomplished by placing the potting mix in a rotating drum and spraying the product solution onto the mix while the drum is rotating. It is advised that this media treatment be prepared just prior to use.

GROWING MEDIA DRENCH
Use enough of the specified **FALCHION** water solution to wet the root zone of plants. In 1.0 pt/sq ft of this solution is sufficient for ornamentals growing in containers with 4 inches of growing media. Containers with growing media depth greater than 4 inches require 1½ to 2.0 pt/sq ft of the solution.

INTERIORSCAPE SOIL DRENCH APPLICATIONS AND INDIVIDUAL PLANT USE
In situations where water volumes used are much less than 100 gallons and the area treated is small, the table in **Mixing Small Quantities of Drench Solution** provides the **FALCHION** rates to make small quantities of solution. Refer to the plant type for the correct amount of product to use when utilizing this table. Apply enough solution to the soil surface to wet the root area of the plants.

SOIL SURFACE SPRAYS
For best efficacy with soil surface applications, irrigate in with at least ½ inch of water within 24 hours. If applications are banded, calculate the amount of this product needed by using the formula below.

$$\frac{\text{Band width in inches}}{\text{Width in inches}} \times \text{Broadcast rate per acre} = \text{Amount needed per acre row}$$

FOLIAR AND STEMSPRAYS

Apply thoroughly to all parts of the foliage and stems. For *Phytophthora spp*. and *Pythium spp*., you may apply **FALCHION** alone. For downy mildew control (and following resistance management practices), you must apply in a tank mixture with a non-Group 4 fungicide.

Mixing Directions
- Prepare no more spray mixture than is required for the immediate operation.
- Agitate the spray solution continuously during mixing and during application.
- Rinse the spray tank thoroughly with clean water after each day s use and dispose of pesticide rinsate by application to an already treated area.

FALCHION ALONE
- Add ¼ to ½ of the required amount of water to the spray tank.
- With the agitator running, add this product to the tank.
- Continue agitation while adding the remainder of the water.
- Begin application of the spray solution after the **FALCHION** has completely dispersed into the mix water.
- Maintain agitation until all of the mixture has been sprayed.

TANK-MIX DIRECTIONS
- If using this product in a tank mixture, observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank-mix partner label.
- Label dosage must not be exceeded and the most restrictive label precautions and limitations must be followed.
- This product must not be mixed with any product which prohibits such mixing.
- Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the products are registered.
- Test plant safety of tank mixtures on a small number of plants for safety before treating entire crop.

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

A jar compatibility test is advised prior to tank-mixing with other pesticides and/or adjuvants, in order to ensure the compatibility of **FALCHION** with other tank-mixed pesticide, adjuvant or fertilizer partners. Always conduct a tank-mix compatibility test when mixing with new or unknown tank-mix partners before use. The following test assumes a spray volume of 25 gal/A. For other spray volumes, make appropriate changes in the components. Check tank-mix compatibility using this procedure:

1. Add 1 pt of carrier (i.e., water) to be used in the spray operation to each of two clear 1-qt jars with tight lids.

2. To one of the jars, add ¼ tsp or 1.2 milliliters of a commercially available tank- mix compatibility agent approved for this use (¼ tsp is equivalent to 2 pt/100 gallons spray). Close and seal the lid, Invert the jar, shake, or stir gently to ensure thorough mixing.

3. To both jars, add the proportionate amount of each tank-mix partner. If more than one tank-mix partner is to be used, follow the specified mixing order by adding dry formulations (wettable powders or water dispersible granules) first, followed by liquid flowables, capsule suspensions, emulsifiable concentrates and finally add adjuvants. After each addition, invert the jar, shake or stir gently to thoroughly mix.

4. After adding all ingredients, put lids on and seal the lids, invert each jar 10 times to fully mix. Let the mixtures stand for 15-30 minutes and then assess by looking for separation, large flakes, precipitates, gels, heavy oily film on the jar, or other signs of incompatibility. Determine if a compatibility agent is needed in the application mixture by comparing the 2 jars. If either mixture separates, but can be remixed readily, the mixture can be sprayed as long as good agitation is used. If the mixtures are incompatible, test the following methods of improving compatibility: (A) Slurry dry formulations in water before adding to the jar, or (B) add the compatibility agent directly into liquid formulations, before addition to the jar. If these procedures are followed but incompatibility is still observed, **DO NOT** use the tank mixture.

TANK MIXTURES

- Add ¼ to ½ of the required amount of water to the spray tank.
- Start the agitator before adding any tank-mix partners.
- **Instruction:** When using this product in tank mixtures, all products in water-soluble packaging must be added to the tank before any other tank-mix partner, including **FALCHION**. Allow the water-soluble packaging to completely dissolve and the product(s) to completely disperse before adding any other tank- mix partner to the tank.
- Always allow each tank-mix partner to become fully dispersed before adding the next product.
- Provide sufficient agitation while adding the remainder of the water and the **FALCHION** to the spray tank.
- Allow the **FALCHION** to completely disperse into the mix water.
- Maintain agitation until all of the mixture has been sprayed.

Mixing Small Quantities of Drench Solution

Rate of **FALCHION** (fl oz per 100 gallons)	Amount of **FALCHION** to add to make the following quantities			
	1 gallon	1 gallon	1 gallon	1 gallon
0.25 (0.004 lb ai)	4 drops (0.00004 lb ai)	18 drops (0.00019 lb ai)	37 drops/ 0.75 ml (0.0004 lb ai)	1.9 ml/ 3/8 tsp (0.001 lb ai)
0.5 (0.008 lb ai)	7 drops (0.00008)	37 drops/ 0.75 ml (0.0004 lb ai)	75 drops/ 1.5 ml (0.00083 lb ai)	3.8 ml/ ¾ tsp (0.002 lb ai)
1.0 (0.016 lb ai)	15 drops (0.00017 lb ai)	75 drops/ 1.5 ml (0.00083 lb ai)	3.0 ml/ ½ tsp (0.0016 lb ai)	7.5 ml/ 1.5 tsp/ ½ Tbsp (0.00396 lb ai)
1.5 (0.023 lb ai)	22 drops (0.00024 lb ai)	3.0 ml/ ½ tsp (0.0016 lb ai)	4.5 ml/ 1 tsp (0.0023 lb ai)	11.3 ml/ 2.25 tsp/ ¾ Tbsp (0.00597 lb ai)
2.0 (0.031 lb ai)	30 drops (0.00033 lb ai)	4.5 ml/ 1 tsp (0.0023 lb ai)	6.0 ml/ 1.5 tsp (0.0032 lb ai)	15.0 ml/ 3 tsp/ 1 Tbsp (0.0079 lb ai)

ORNAMENTAL USE DIRECTIONS

Use **FALCHION** on ornamentals grown in greenhouses, lath-houses and shade-houses; outdoor field and container nurseries (including non-bearing fruit and nut plants); conifer plantations; and in commercial and residential landscapes.

Bedding Plants

Bedding Plants (including all cultivars, varieties, and hybrids)			
Ageratum Algerian ivy Artemisia Aster Begonia Caladium Carnation Chrysanthemum Coleus	Daisy English ivy Foxglove Gaillardia Geranium Impatiens Marigold Pansy Petunia	Phlox Pinks Primrose Prostrate Rosemary Salvia Snapdragon Verbena Vinca Zinnia	
Target Disease	**Use Rate**	**Application Timing**	**Use Directions**
SOIL APPLICATION			
Damping-off, root diseases, and stem diseases caused by Pythium and *Phytophthora spp.* Foliar diseases such as downy mildew and foliar diseases caused by *Phytophthora spp.,* including P. ramorum	0.125 – 0.25 fl oz per 100 gallons of water (0.002 – 0.004 lb ai)	Apply drench at seeding.	Apply 1.0 pt solution (0.0000025 – 0.000005 lb ai) per sq ft to the soil surface (for soil 2 - 3 inches deep). Refer to Mixing Directions for drench applications requiring smaller water volumes.
	0.50 – 1.0 fl oz per 100 gallons of water (0.008 – 0.016 lb ai)	Apply drench at transplanting. Repeat applications at 1- to 2-month intervals, if necessary.	Apply 1.0 pt of solution (0.00001 – 0.0002 lb ai) per sq ft to the soil surface (for soil 2-3 inches deep). For growing media depth greater than 4 inches, apply 1.5 (0.000015 – 0.0003 lb ai) 2.0 pt (0.00002 – 0.0004 lb ai) of solution per sq ft to the soil surface. Use the lower rate for the shortest interval listed and the higher specified rate for the longest interval. Under severe disease conditions, use the highest specified rate and the shortest interval. Refer to **Mixing Directions** for drench applications requiring smaller water volumes.

Target Disease	Use Rate	Application Timing	Use Directions
SOIL APPLICATION			
Damping-off, root diseases, and stem diseases caused by Pythium and *Phytophthora spp.* Foliar diseases such as downy mildew and foliar diseases caused by *Phytophthora spp.,* including P. ramorum	0.125 fl oz per cubic yard of growing Media (0.002 lb ai)	Apply just before seeding and transplanting.	Apply to growing media mix just before planting and thoroughly mix. Mix only enough for current use. **DO NOT** store.
	1.0 fl oz per 1,000 sq ft (0.016 lb ai)		Apply broadcast or banded spray to the soil surface in sufficient water to obtain thorough coverage of the plant root zone. Avoid application to the foliage. For best efficacy, irrigate in with at least ½ inch of water within 24 hours. If applications are banded, calculate the amount of product needed by using the formula in **Application Directions.**
FOLIAR APPLICATION			
Downy mildew *Phytophthora spp.* *Pythium spp.*	0.5 – 1.0 fl oz per 100 gallons of water (0.008 – 0.016 lb ai)		Spray foliage thoroughly. **Downy mildew**: Tank-mix with a non-Group 4 fungicide labeled for downy mildew.

Resistance Management:

- Refer to **Product Information**.
- Make only one foliar application of **FALCHION** (alone or in a tank mix) before alternating with a non-Group 4fungicide for sequential foliar applications.
- For all other applications, **DO NOT** make more than two (2) sequential applications of **FALCHION** before alternating with a non-Group 4 fungicide, which can include one foliar application.

USE RESTRICTIONS

1) **Drench Applications at Transplanting and after: DO NOT** apply rates of 0.75 – 1.0 fl oz (0.012 – 0.016 lb ai) per 100 gallons more often than once every 6 weeks.
   a. **Drench RTI:** 4 weeks.
2) **Soil application: DO NOT** apply more than 1.0 fl oz (0.016 lb ai) per application.
3) **Foliar Application: DO NOT** apply more than 1.0 fl oz (0.016 lb ai) per 100 gallons of water per application.
4) **Maximum Annual Rate: DO NOT** apply more than 6.0 lbs ai/A/year of mefenoxam-containing products.
5) **DO NOT** make more than 12 applications per year.
6) **RTI:** 28 days.

Flowers (including Bulb, Corm, and Tuber Plants)

Flowers (including all cultivars, varieties, and hybrids)			
African violet Anthurium Baby's breath Carnation	Chrysanthemum Columbine Delphinium Easter lily		Geranium Gloxinia Poinsettia Rose
Target Disease	**Use Rate**	**Application Timing**	**Use Directions**
SOIL APPLICATION			
Damping-off, root diseases, and stem diseases caused by Pythium and *Phytophthora spp.* Foliar diseases including downy mildew and foliar diseases caused by *Phytophthora spp.,* including P. ramorum	0.50 – 1.0 fl oz per 100 gallons of water (0.008 – 0.016 lb ai)	Apply drench at planting. Repeat applications at 1- to 2-month intervals, if necessary.	Apply 1.0 pt of solution (0.00001 – 0.0002 lb ai) per sq ft to the soil surface. For growth media depth greater than 4 inches, apply 1.5 (0.000015 – 0.0003 lb ai) 2.0 (0.00002 – 0.0004 lb ai) pt of solution per sq ft to the soil surface. Use the lower rate for the shortest interval listed and the higher specified rate for the longest interval. Under severe disease conditions,use the highest specified rate and the shortest interval. Refer to **Mixing Directions** for drench applications requiring smaller water volumes.
	0.125 fl oz per cubic yard of growing Media (0.002 lb ai)	Apply just before seeding and transplanting.	Apply to growing media mix just before planting and thoroughly mix. Mix only enough for current use. **DO NOT** store.
	1.0 fl oz per 1,000 sq ft (0.016 lb ai)		Apply broadcast or banded spray to the soil surface in sufficient water to obtain thorough coverage of the plant root zone. Avoid application to the foliage. For best efficacy, irrigate in with at least ½ inch of water within 24 hours. If applications are banded, calculate the amount of product needed by using the formula in **Mixing Directions.**

FOLIAR APPLICATION			
Downy mildew *Phytophthora spp.* *Pythium spp.*	0.5 – 1.0 fl oz per 100 gallons of water (0.008 – 0.016 lb ai)		Spray foliage thoroughly. **Downy mildew**: Tank-mix with a non-Group 4 fungicide labeled for downy mildew.

Resistance Management:
- Refer to **Product Information.**
- Make only one foliar application of **FALCHION** (alone or in a tank mix) before alternating with a non-Group 4 fungicide for sequential foliar applications.
- For all other applications, **DO NOT** make more than two (2) sequential applications of **FALCHION** before alternating with a non-Group 4 fungicide, which can include one foliar application.

USE RESTRICTIONS

1) **Drench Applications: DO NOT** apply rates of 0.75 – 1.0 fl oz (0.012 – 0.016 lb ai) per 100 gallons more often than once every 6 weeks.
   a. **Easter Lily: DO NOT** apply more than 0.50 fl oz (0.008 lb ai) per 100 gallons of water. Only make one at-planting application.
   b. **Drench RTI:** 4 weeks.
2) **Soil Application: DO NOT** apply more than 1.0 fl oz (0.016 lb ai) per application.
3) **Foliar Application: DO NOT** apply more than 1.0 fl oz (0.016 lb ai) per 100 gallons of water per application.
4) **Maximum Annual Rate**: **DO NOT** apply more than 6.0 lbs ai/A/year of mefenoxam-containing products.
5) **DO NOT** make more than 12 applications per year.
6) **RTI:** 28 days

Foliage Plants

Flowers (including all cultivars, varieties, and hybrids)		
Aglaonema Aphelandra Dieffenbachia Peperomia	Philodendron Pothos Schefflera	Philodendron Pothos Schefflera

Target Disease	Use Rate	Application Timing	Use Directions
SOIL APPLICATION			
Damping-off, root diseases, and stem diseases caused by Pythium and *Phytophthora spp* Foliar diseases such as downy mildew and foliar diseases caused by *Phytophthora spp.,* including P. ramorum	0.3 – 0.6 fl oz per 100 gallons of water (0.005 – 0.009 lb ai) **Philodendron:** 0.5 – 1.0 fl oz per 100 gallons of water (0.008 – 0.016 lb ai) **Pothos:** 0.3 – 0.38 fl oz per 100 gallons of Water (0.005 – 0.006 lb ai)	Apply drench at 2- to 3-month intervals, if necessary	Apply 1.0 pt (0.0000063 – 0.0002 lb ai) of solution per sq ft to the soil surface. For growth media depth greater than 4 inches, apply 1.5 (0.0000095 – 0.0003 lb ai) – 2.0 (0.000013 – 0.0004 lb ai) pt of solution per sq Use the lower rate for the shortest interval listed and the higher specified rate for the longest interval. Under severe disease conditions, use the highest specified rate and the shortest interval. Refer to **Mixing Directions** for drench applications requiring smaller water volumes.

SOIL APPLICATION			
Damping-off, root diseases, and stem diseases caused by *Pythium and Phytophthora spp*	0.125 fl oz per cubic yard of growing Media (0.002 lb ai)	Apply just before planting.	Apply to growing media mix just before planting and thoroughly mix. Mix only enough for current use. **DO NOT** store.
Foliar diseases such as downy mildew and foliar diseases caused by *Phytophthora spp.,* including P. ramorum	1.0 fl oz per 1,000 sq ft (0.016 lb ai)		Apply broadcast or banded spray to the soil surface in sufficient water to obtain thorough coverage of the plant root zone. Avoid application to the foliage. For best efficacy, irrigate in with at least ½ inch of water within 24 hours. If applications are banded, calculate the amount of product needed by using the formula in **Mixing Directions.**
FOLIAR APPLICATION			
Downy mildew Phytophthora spp. Pythium spp.	0.5 – 1.0 fl oz per 100 gallons of water (0.008 – 0.016 lb ai)		Spray foliage thoroughly. Downy mildew: Tank-mix with a non-Group 4 fungicide labeled for downy mildew.

Resistance Management:

- Refer to **Product Information.**
- Make only one foliar application of **FALCHION** (alone or in a tank mix) before alternating with a non-Group 4fungicide for sequential foliar applications.
- For all other applications, **DO NOT** make more than two (2) sequential applications of **FALCHION** before alternating with a non-Group 4 fungicide, which can include one foliar application.

Precaution:

- **Drench application to Pothos:** To minimize the potential for injury, use the rates listed in the table and **DO NOT** apply more frequently than once every 3 months.

USE RESTRICTIONS

1) **Drench Applications: DO NOT** apply rates of 0.75 – 1.0 fl oz per 100 gallons more often than once every 6 weeks.
   a. **Drench RTI:** 8 weeks
2) **Soil Application: DO NOT** apply more than 1.0 fl oz (0.016 lb ai) per application.
3) **Foliar Application: DO NOT** apply more than 1.0 fl oz (0.016 lb ai) per 100 gallons of water per application.
4) **Maximum Annual Rate: DO NOT** apply more than 6.0 lbs ai/A/year of mefenoxam-containing products.
5) **DO NOT** make more than 12 applications per year.
6) **RTI:** 28 days

Azaleas (including all cultivars, varieties, and hybrids)			
Target Disease	**Use Rate**	**Application Timing**	**Use Directions**
SOIL APPLICATION			
Pythium and Phytophthora root and crown rot	0.63 – 1.25 fl oz per 100 gallons of water (0.01 – 0.02 lb ai)	Apply drench at 2- to 4- month intervals, if necessary.	Apply 1.0 pt (0.000023 – 0.000025 lb ai) of solution per sq ft to the soil surface. For growth media depth greater than 4 inches, apply 1.5 (0.000035 – 0.000038 lb ai) – 2.0 pt of solution per sq ft to the soil surface. Use the lower rate for the shortest interval listed and the higher specified rate for the longest interval. Under severe disease conditions, use the highest specified rate and the shortest interval. Refer to **Mixing Directions** for drench applications requiring smaller water volumes.
	1.25 – 2.50 fl oz per 1,000 sq ft (0.02 – 0.039 lb ai)		Apply broadcast or banded spray to the soil surface in sufficient water to obtain thorough coverage of the plant root zone. Avoid application to the foliage. For best efficacy, irrigate in with at least ½ inch of water within 24 ours. If applications are banded, calculate the amount of product needed by using the formula in **Mixing Directions.**

FOLIAR APPLICATION			
Downy mildew *Phytophthora spp.* *Pythium spp.*	0.5 – 1.0 fl oz per 100 gallons of water (0.008 – 0.016 lb ai)		Spray foliage thoroughly.

Resistance Management:

- Refer to **Product Information.**
- Make only one foliar application of **FALCHION** (alone or in a tank mix) before alternating with a non-Group 4 fungicide for sequential foliar applications.
- For all other applications, **DO NOT** make more than two (2) sequential applications of **FALCHION** before alternating with a non-Group 4 fungicide, which can include one foliar application.

Precautions:

- Use the lower rate for "Coral Bell" variety.

USE RESTRICTIONS

1) **Soil Applications: DO NOT** apply repeat soil application of 1.25 fl oz (0.02 lb ai) per 100 gallons closer than every 3 months, and DO NOT exceed a total of 2.5 fl oz (0.039 lb ai) in 6 months.
   - **DO NOT** apply more than 2.5 fl oz (0.039 lb ai) per application.
   - **Soil RTI:** 8 weeks
2) **Foliar Application: DO NOT** apply more than 1.0 fl oz (0.016 lb ai) per 100 gallons per application.
3) **Maximum Annual Rate:** DO NOT apply more than 6.0 lbs ai/A/year of mefenoxam-containing products.
4) **DO NOT** make more than 12 applications per year.
5) **RTI:** 28 days

WOODY ORNAMENTALS OTHER THANAZALEAS

Woody Ornamentals (including all cultivars, varieties, and hybrids)

Aucuba japonica	Ficus	*Pinus* spp.
Arborvitae	"Halls" Honeysuckle	Pittosporum
Boxwood	Ilex	Rhododendron
Ceanothus	*Juniperus* spp.	White cedar
Cotoneaster	Photinia	White pine
Dogwood	*Pieris* japonica	Yew

Target Disease	Use Rate	Application Timing	Use Directions
SOIL APPLICATION			
Pythium and Phytophthora root and crown rot	1.0 – 2.0 fl oz per 100 gallons of water (0.016 – 0.031 lb ai)	Apply drench at 2- to 3- month intervals, if necessary.	Apply 1.0 pt (0.0002 –0.000039 lb ai) of solution per sq ft to the soil surface. For growth media depth greater than 4 inches, apply 1.5 (0.0003 – 0.000059 lb ai) – 2.0 (0.0004 – 0.000078 lb ai) pt of solution per sq ft to the soil surface. Use the lower rate for the shortest interval listed and the higher specified rate for the longest interval. Under severe disease conditions, use the highest specified rate and the shortest interval. Refer to **Mixing Directions** for drench applications requiring smaller water volumes.

Pythium and Phytophthora root and crown rot	1.25 – 2.50 fl oz per 1,000 sq ft (0.02 – 0.039 lb ai)		Apply broadcast or banded spray to the soil surface in sufficient water to obtain thorough coverage of the plant root zone. Avoid application to the foliage. For best efficacy, irrigate in with at least ½ inch of water within 24 hours. If applications are banded, calculate the amount of product needed by using the formula in **Mixing Directions.**
FOLIAR APPLICATION			
Downy mildew	0.50 – 2.0 fl oz per 100 gallons of water (0.08 – 0.031 lb ai)		Tank-mix with a non-Group 4 fungicide labeled for downy mildew and spray foliage thoroughly.
Phytophthora spp. *Pythium spp.*	0.5 – 1.0 fl oz per 100 gallons of water (0.08 – 0.016 lb ai)		Spray foliage thoroughly.

Resistance Management:

- Refer to **Product Information**.
- Make only one foliar application of **FALCHION** (alone or in a tank mix) before alternating with a non-Group 4 fungicide for sequential foliar applications.
- For all other applications, **DO NOT** make more than two (2) sequential applications of **FALCHION** before alternating with a non-Group 4 fungicide, which can include one foliar application.

USE RESTRICTIONS

1) **Drench Applications: DO NOT** apply rates of 2.0 fl oz (0.031 lb ai) per 100 gallons more often than every 10 weeks.
   a. **Drench RTI:** 8 weeks
2) **Soil Applications: DO NOT** apply more than 2.5 fl oz (0.039 lb ai) per application.
3) **Foliar Applications: DO NOT** apply more than 2.0 fl oz (0.031 lb ai) per 100 gallons per application.
4) **Maximum Annual Rate: DO NOT** apply more than 6.0 lbs ai/A/year of mefenoxam-containing products.
5) **DO NOT** apply more than 12 applications per year.
6) **RTI:** 28 days

Citrus in Nurseries and Landscape Plantings (Non-Bearing)

Target Disease	Use Rate	Application Timing	Use Directions
Citrus foot rot, root rot, and trunk canker caused by *Phytophthora spp.*	2.0 – 3.0 fl oz per 100 gallons of water (0.031 – 0.047 lb ai)	Make the first application at the time of planting.	Apply as a drench to the soil at the rate of 100 (0.031 – 0.047 lb ai) - 250 (0.078 – 0.118 lb ai) gallons of solution per 1,000 ft of row.
		Make repeat applications at 3-month intervals during the period when trees are actively growing.	The width of the drench treatment must be wide enough to cover the root systems of the plants. Use the lower rate for the shortest interval listed and the higher specified rate for the longest interval. Under severe disease conditions, use the highest specified rate and the shortest interval. Refer to **Mixing Directions** for drench applications requiring smaller water volumes.
	1.25 – 2.50 fl oz per 1,000 sq ft (0.02 – 0.039 lb ai)		Apply broadcast or banded spray to the soil surface in sufficient water to obtain thorough coverage of the plant root zone. Avoid application to the foliage. For best efficacy, irrigate in with at least ½ inch of water within 24 hours after application. If applications are banded,the treated area must be wide enough to cover the root systems of the plants. Calculate the amount of product needed by using the formula in **Mixing Directions**.
	2.0 fl oz per 100 gallons(0.031 lb ai)		Apply directed spray to the base of the plant.

Resistance Management:
- Refer to **Product Information.**
- **DO NOT** make more than two (2) sequential applications of **FALCHION** before alternating with a non-Group 4 fungicide.

Precaution:
- Avoid application to the foliage.

USE RESTRICTIONS

1) **DO NOT** use in greenhouse citrus nursery stock intended for commercial fruit production.
2) **DO NOT** apply more than 3.0 fl oz (0.047 lb ai) per application.
3) **RTI:** 12 weeks
4) **DO NOT** make more than 4 applications per year.
5) Maximum Annual Rate: **DO NOT** apply more than 6.0 lbs ai/A/year of mefenoxam-containing products.

Non-Bearing Fruit and Nut Plants in Nurseries

Target Disease	Use Rate	Application Timing	Use Directions
Phytophthora root, crown, and collar rot Pythium root rot	3.0 fl oz per 1,000 sq ft (0.047 lb ai)	Additional applications may be made as necessary at 3-month intervals during the growing year.	Apply as a soil surface spray in sufficient water to obtain thorough coverage of the soil under the canopy of the trees. Treat sufficient surface area in nurseries to cover the root zone of the plants. For best efficacy, ½ inch irrigation or rainfall is required within 24 hours after application. Avoid application to the foliage.

Resistance Management:
- Refer to **Product Information**.
- **DO NOT** make more than two (2) sequential applications of **FALCHION** before alternating with a non-Group 4 fungicide.

USE RESTRICTIONS

1) **DO NOT** apply to plants that will bear harvestable fruit within 12 months of the last application.
2) **DO NOT** apply more than 3.0 fl oz (0.047 lb ai) per application.
3) **Maximum Annual Rate: DO NOT** apply more than 6.0 lbs ai/A/year of mefenoxam-containing products.
4) **DO NOT** make more than 4 application per year.
5) **RTI:** 12 weeks

CONIFER USE DIRECTIONS (INCLUDING CHRISTMAS TREES)
Conifers (including Christmas Trees) in Nurseries and Forest Nurseries

Target Disease	Use Rate	Application Timing	Use Directions
Phytophthora root and stem diseases	1.25 pt/A (0.31 lb ai)	Apply to seedbeds and plug-plantings in the spring and again in the fall.	Apply as a soil surface spray in at least 50 gallons of water per acre. For best efficacy, ½ inch irrigation or rainfall is required within 24 hours after application.
	2.5 pt/A (0.63 lb ai)	Apply to 2-0 transplants in the spring and again in the fall.	
Phytophthora foliar diseases	1.0 fl oz per 100 gallons of water (0.016 lb ai)	Apply to seedbeds and plug-plantings.	Apply as a foliar spray until runoff. For best efficacy, ½ inch irrigation or rainfall is required within 24 hours after application.
	1.0 – 2.0 fl oz per 100 gallons of water (0.016 – 0.031 lb ai)	Apply to 2-0 transplants.	

Resistance Management:
- Refer to **Product Information**.
- Make only one foliar application of **FALCHION** before alternating with a non-Group 4 fungicide for sequential foliar applications.

USE RESTRICTIONS

1) **Phytophthora root and stem diseases: DO NOT** apply more than 1.25 pt (0.31 lb ai) per acre per application.
2) **Phytophthora foliar diseases: DO NOT** apply more than 2.0 fl oz (0.031 lb ai) per 100 gallons of water per application.
3) **Maximum Annual Rate: DO NOT** apply more than 6.0 lbs ai/A/year of mefenoxam-containing products.
4) **DO NOT** make more than 12 applications per year.
5) **RTI:** 28 days

Conifers (including Christmas Trees) in Plantations

Target Disease	Use Rate	Application Timing	Use Directions
Phytophthora root, stem, and foliar diseases	0.625 – 1.25 gal/A (1.25 – 2.5 lb ai)	Apply in early spring before growth starts and in the fall before The ground freezes.	Apply as a directed soil surface spray in at least 50 gallons of water per acre. Avoid applications to the foliage. For best efficacy, ½ inch irrigation or rainfall is required within 24 hours after application. If applications are banded, calculate the amount of product needed by using the formula in **Mixing Directions.**
Foliar diseases caused by *Phytophthora spp.,* including *P. ramorum*	1.0 – 2.0 fl oz per 100 gallons of water (0.016 – 0.031 lb ai)		Apply as a foliar spray until runoff. For best efficacy, ½ inch irrigation or rainfall is required within 24 hours after application.

Resistance Management:

- Refer to **Product Information.**
- Make only one foliar application of **FALCHION** before alternating with a non-Group 4 fungicide for sequential foliar applications.

Precautions:

- Use of **FALCHION** will aid in the control of Phytophthora root, stem, and foliar disease when used in conjunctionwith good cultural practices.
- The use of **FALCHION** will not overcome poor management practices, for example planting on sites that are proneto flooding or are poorlydrained.
- **FALCHION** fungicide will not revitalize trees showing moderate to severe disease symptoms.

USE RESTRICTIONS

1) **DO NOT** apply more than 1.25 gal (2.5 lb ai) per acre per application.
2) **Maximum Annual Rate: DO NOT** apply more than 6.0 lbs ai/A/year of mefenoxam-containing products.
3) **DO NOT** make more than 12 application per year when using reduced application rates.
4) **RTI:** 28 days

VEGETABLE TRANSPLANTS GROWN FOR RETAIL SALES TO CONSUMERS
Cole Crops

Crops (including all cultivars, varieties, and hybrids of these)

Broccoli
Broccoli raab (rapini)
Brussels Sprouts
Cabbage
Cauliflower
Cavalo broccoli
Chinese broccoli (gai lon)
Chinese cabbage (bok choy and napa)
Chinese mustard cabbage (gai choy)
Collards
Kale
Kohlrabi
Mizuna
Mustard greens
Mustard spinach
Rape greens
Turnip greens (greens only)

Target Disease	Use Rate	Application Timing	Use Directions
Basal stem rot (*Phytophthora* spp.)	21.7 - 43.5 ml/1,000 sq ft (2.0 - 4.0 pt/A; 0.5 - 1.0 lb ai)	Apply at seeding.	Apply as a soil surface spray or a soil treatment. Irrigate lightly after application to move product into the root zone.
Damping off *(Pythium* spp.)	5.4 - 10.9 ml/1,000 sq ft (0.5 - 1.0 pt/A; 0.125 - 0.25 lb ai)		
Downy mildew *(Peronospora parasitica)*	2.7 - 5.4 ml/1,000 sq ft (0.25 - 0.50 pt/A; 0.063 - 0.125 lb ai)	Apply when conditions are favorable for disease, but before infection, on a 14-day schedule.	Foliar spray must be used in a tank mix with other fungicides registered for control of downy mildew. Apply with the full label rate of the tank-mix partner fungicide.

Resistance Management:
- Refer to **Product Information.**

USE RESTRICTIONS

1) Foliar applications to turnip plants may not be made to dual-purpose turnip cultivars or varieties which produce a harvestable root.
2) **DO NOT** apply foliar sprays of **FALCHION** without a labeled tank-mix partner.
3) **DO NOT** apply the **FALCHION** mixture where downy mildew is already established.
4) **DO NOT** apply within 7 days of harvest, unless tank mix partner requires a more restrictive PHI.
5) **DO NOT** apply more than 4.0 pt (1.0 lb ai) per acre per application.
6) When multiple crops are produced in the same area **DO NOT** apply than 2 soil and 4 foliar application per year.
7) **RTI:** 14 days
8) **Maximum Annual Rate:**
   a. **Plants Grown Outdoors in Nurseries (including outdoor growing structures):** When multiple crops are produced in the same production area, **DO NOT** apply more than 1.0 lb ai/A/year of soil-applied and 0.50 lb ai/A/year of foliar-applied mefenoxam-containing products.
   b. **Plants Grown in Greenhouses: DO NOT** apply more than 1.0 lb ai/A/crop of soil-applied and 0.50 lb ai/A/crop of foliar-applied mefenoxam-containing products.

Cucurbits

Crops (including all cultivars, varieties, and hybrids of these)		
Cantaloupe Chayote Chinese Waxgourd Citron Melon Cucumber Gherkin Gourd (edible) Honeydew ***Momordica spp.*** Balsam apple Balsam pear Bitter melon Chinese cucumber	**Muskmelons** Casaba melon Crenshaw melon Golden Pershaw melon Honey balls Mango melon Persian melon Pineapple melon Santa Claus melon Snake melons	Pumpkin Squash, Summer Squash, Winter Watermelon

Target Disease	Use Rate	Application Timing	Use Directions
Damping off *(Pythium spp.)* **Suppression:**	21.7 - 43.5 ml/1,000 sq ft (2.0 - 4.0 pt/A; 0.5 - 1.0 lb ai)	Apply at seeding.	Apply as a soil surface spray or a soil treatment. Irrigate lightly after application to move product into the root zone.
Phytophthora blight *(Phytophthora capsici)*			

Resistance Management:
- Refer to **Product Information.**

USE RESTRICTIONS

1) **DO NOT** apply within 7 days of harvest.
2) **DO NOT** apply more than 4.0 pt (1.0 lb ai) per acre per application.
3) **DO NOT** make more than 2 applications per year at reduced application rates.
4) **RTI:** 14 days
5) **Maximum Annual Rate:**

   a. **Plants Grown Outdoors in Nurseries (including outdoor growing structures):** When multiple crops are produced in the same production area, **DO NOT** apply more than 1.0 lb ai/A/year of soil- applied mefenoxam-containing products.
   b. **Plants Grown in Greenhouses: DO NOT** apply more than 1.0 lb ai/A/crop of soil- applied mefenoxam-containing products.

Fruiting Vegetables (except Cucurbits)

Crops (including all cultivars, varieties, and hybrids of these)		
Eggplant Groundcherry Pepino	Pepper Bell pepper Chili pepper Cooking pepper Pimento Sweet pepper	Tomatillo See separate section for directions for **Tomato.**

Target Disease	Use Rate	Application Timing	Use Directions
Damping off *(Pythium spp.)* Crown rot *(Phytophthora capsici)*	21.7 ml/1,000 sq ft (2.0 pt/A; 0.5 lb ai)	To control crown rot, apply before the plants are infected to obtain satisfactory control. Plants already infected with P. capsici cannot be cured with **FALCHION**.	Apply as a soil surface spray or a soil treatment. Irrigate lightly after application to move product into the root zone.

Resistance Management:
- Refer to **Product Information.**

USE RESTRICTIONS

1) **DO NOT** apply within 7 days of harvest.
2) **DO NOT** apply more than 2.0 pt (0.5 lb ai) per acre per application.
3) **DO NOT** make more than 3 applications per year.
4) **RTI:** 14 days
5) **Maximum Annual Rate:**

   a. **Plants Grown Outdoors in Nurseries (including outdoor growing structures):** When multiple crops are produced in the same production area, **DO NOT** apply more than 1.5 lb ai/A/year of soil- applied mefenoxam-containing products.
   b. **Plants Grown in Greenhouses: DO NOT** apply more than 1.5 lb ai/A/crop of soil- applied mefenoxam-containing products.

Herbs

Crops (including all cultivars, varieties, and hybrids of these)		
Angelica Balm Basil Borage Burnet Catnip Chamomile 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

Target Disease	Use Rate	Application Timing	Use Directions
Damping off *(Pythium spp.)*	21.7 - 43.5 ml/1,000 sq ft (2.0 - 4.0 pt/A; 0.5 - 1.0 lb ai)	Apply at seeding.	Apply as a soil surface spray or a soil treatment. Irrigate lightly after application to move product into the root zone.
Damping off *(Pythium spp.)* Downy mildew *(Peronospora belbahrii)*	21.7 ml/1,000 sq ft (2.0 pt/A; 0.5 lb ai)	Apply at seeding.	Apply as a soil surface spray or a soil treatment to plug-production trays after seeding and before seedling emergence in sufficient water to provide uniform coverage. Irrigate lightly after application to move product into the root zone, but not to the point of leaching. (Plug production refers to the production of a young plant grown from seed in a multi-celled germination tray for a short period of time. After growing to a desired size, the plug is then transplanted in a larger pot or container to grow to a larger size suitable to sell.)
Downy mildew *(Peronospora belbahrii)*	21.7 ml/1,000 sq ft (2.0 pt/A; 0.5 lb ai)	Apply when conditions are favorable for disease, but before infection, on a 14-day schedule.	Apply as a foliar spray. **FALCHION** must be used in a tank mix with other fungicides registered for control of downy mildew. Apply with the full label rate of the tank-mix partner fungicide.

Resistance Management:

- Refer to **Product Information.**

USE RESTRICTIONS

1) Make only one application to plants grown in plug-production trays.
2) Make only one foliar application after plugs are transplanted to a larger pot or container.
3) **DO NOT** apply within 21 days of harvest.
4) **DO NOT** apply more than 4.0 pt (1.0 lb ai) per acre per application.
5) **RTI**: 14 days
6) **Maximum Annual Rate:**
   a. **Plants Grown Outdoors in Nurseries (including outdoor growing structures):** When multiple crops are produced in the same production area, **DO NOT** apply more than 2.0 lb ai/A/year of soil- applied and 0.5 lb ai/A/year of foliar-applied mefenoxam-containing products.
   b. **Plants Grown in Greenhouses: DO NOT** apply more than 2.0 lb ai/A/crop of soil-applied and 0.5 lb ai/A/crop of foliar-applied mefenoxam-containing products.

Leafy Vegetables (except Brassica)

Crops (including all cultivars, varieties, and/or hybrids of these) – See additional use directions for lettuce, which follow.

Amaranth	Cress, upland	Purslane, garden
Arugula	Dandelion	Purslane, winter
Chervil	Dock	Radicchio
Chrysanthemum, edible-leaved	Endive	Spinach
Chrysanthemum, garland	Lettuce, head and leaf	Spinach, New Zealand
Corn salad	Orach	Spinach, vine
Cress, garden	Parsley	

Target Disease	Use Rate	Application Timing	Use Directions
Damping off *(Pythium spp.)*	21.7 - 43.5 ml/1,000 sq ft (2.0 - 4.0 pt/A; 0.5 - 1.0 lb ai)	Apply at seeding.	Apply as a soil surface spray or a soil treatment. Irrigate lightly after application to move product into the root zone.

Resistance Management:
- Refer to **Product Information.**

USE RESTRICTIONS

1) Make no more than one soil application per crop.
2) **DO NOT** apply within 7 days of harvest (except Spinach)
3) For Spinach, **DO NOT** apply within 21 days of harvest.
4) **DO NOT** apply more than 4.0 pt (1.0 lb ai) per acre per application.
5) **RTI**: 14 days
6) **Maximum Annual Rate (except Lettuce):**
   a. **Plants Grown Outdoors in Nurseries (including outdoor growing structures):** When multiple crops are produced in the same production area, **DO NOT** apply more than 1.0 lb ai/A/year of soil-applied mefenoxam-containing products.
   b. **Plants Grown in Greenhouses: DO NOT** apply more than 1.0 lb ai/A/crop of soil-applied mefenoxam-containing products.

ADDITIONAL DIRECTIONS FOR LETTUCE (HEAD AND LEAF) ONLY

Target Disease	Use Rate	Application Timing	Use Directions
Downy mildew *(Bremia lactucae)*	2.7 - 5.5 ml/1,000 sq ft (0.25 - 0.50 pt/A; 0.063 - 0.125 lb ai)	Apply when conditions are favorable for disease, but before infection, on a 14-day schedule.	Apply as a foliar spray. **FALCHION** must be used in a tank mix with other fungicides registered for control of downy mildew. Apply with the full label rate of the tank-mix partner fungicide.

USE RESTRICTIONS

1) **DO NOT** apply foliar sprays of **FALCHION** without a labeled tank mix partner.
2) **DO NOT** apply the **FALCHION** mixture where downy mildew is already established.
3) **DO NOT** make more than 4 foliar applications per crop.
4) **DO NOT** apply more than 0.5 pt (0.125 lb ai) per acre per application.
5) **RTI:** 14 days
6) **Maximum Annual Rate:**
   a. **Plants Grown Outdoors in Nurseries (including outdoor growing structures):** When multiple crops are produced in the same production area, **DO NOT** apply more than 1.0 lb ai/A/year of soil-applied and 0.4 lb ai/A/year of foliar-applied mefenoxam-containing products.
   b. **Plants Grown in Greenhouses: DO NOT** apply more than 1.0 lb ai/A/crop of soil-applied and 0.4 lb ai/A/crop of foliar-applied mefenoxam-containing products.

Bulb Crops

Crops (including all cultivars, varieties, and/or hybrids of these)

Dry Bulb Crops	Green Bulb Crops	Green Bulb Crops (cont'd)
Chinese Onion	Beltsville Bunching Onions	Chinese Lady's Leek
Bulb Garlic (dry)	Chive (fresh leaves)	Leeks
Great-headed Garlic Lily Bulb	Chive (fresh leaves) Fritillaria (leaves)	Macrostem Onion Onion (fresh)
Onions (dry)	Green Eschalots	Scallions
Pearl Onion	Green Onions	Shallot (fresh leaves)
Potato Onion Bulb	Green Shallots	Spring Onions
Serpent Garlic	Hosta Elegans	Tree Tops Onion
Shallots	Japanese Bunching Onions Kurrat	Welsh Onion (tops)

Target Disease	Use Rate	Application Timing	Use Directions
Damping off (*Pythium spp*.)	10.9 - 21.7 ml/1,000 sq ft (1.0 - 2.0 pt/A; 0.25 - 0.5 lb ai)	Apply at seeding.	Apply as a soil surface spray or a soil treatment. Irrigate lightly after application to move product into the root zone.

Resistance Management:
- Refer to **Product Information.**

USE RESTRICTIONS

1) **DO NOT** apply more than 2.0 pt (0.5 lb ai) per acre per application.
2) **DO NOT** make more than 4 applications per year when using reduced application rates.
3) **RTI:** 14 days
4) **Maximum Annual Rate:**
   a. **Plants Grown Outdoors in Nurseries (including outdoor growing structures):** When multiple crops are produced in the same production area, **DO NOT** apply more than 1.0 lb ai/A/year of soil-applied mefenoxam-containing products.
   b. **Plants Grown in Greenhouses: DO NOT** apply more than 1.0 lb ai/A/crop of soil-applied mefenoxam-containing products.

Tomato

Target Disease	Use Rate	Application Timing	Use Directions
Damping off *(Pythium spp.)*	21.7 - 43.5 ml/1,000 sq ft (2.0 4.0 pt/A; 0.5 - 1.0 lb ai)	Apply at seeding.	Apply as a soil surface spray or a soil treatment. Irrigate lightly after application to move product into the root zone.
Root and fruit rot *(Phytophthora spp.)* *(Pythium spp.)*	21.7 ml/1,000 sq ft (2.0 pt/A; 0.5 lb ai)		

Resistance Management:
- Refer to **Product Information.**

USE RESTRICTIONS

1) **DO NOT** apply more than 4.0 pt (1.0 lb ai) per acre per application.
2) **DO NOT** make more than 3 applications per year at reduced application rates.
3) **RTI:** 14 days
4) **Maximum Annual Rate:**
   a. **Plants Grown Outdoors in Nurseries (including outdoor growing structures):** When multiple crops are produced in the same production area, **DO NOT** apply more than 1.5 lb ai/A/year of soil-applied mefenoxam-containing products.
   b. **Plants Grown in Greenhouses: DO NOT** apply more than 1.5 lb ai/A/crop of soil-applied mefenoxam-containing products.

TURF USE DIRECTIONS

Use **FALCHION** on turf on golf courses; lawns; landscape areas around residential, institutional, public, commercial, and industrial buildings; parks, recreational areas, and athletic fields; and sod farms

Target Disease	Use Rate	Application Timing	Use Directions
Downy mildew in St. Augustine grass Pythium blight Pythium damping-off Yellow tuft (*downy mildew*) in bluegrass	0.50 – 1.0 fl oz per 1,000 sq ft (0.008 – 0.016 lb ai)	Apply immediately after seeding. Re-treat at 7- to 14-day intervals if conditions remain favorable for disease.	Apply to newly seeded areas in 1-5 gallons of water. For best efficacy, ½ inch irrigation or rainfall is required within 24 hours after application. Within the rate range given for turf, use the lower rate for the shortest interval listed and the higher specified rate for the longest interval. Under severe disease conditions, use the specified highest rate and shortest interval.
Pythium blight		Apply 7-10 days after seeding.	For long-term control, use this treatment when seed have been treated with the active ingredient contained in **FALCHION**.
Downy mildew in St. Augustine grass Pythium blight Yellow tuft (downy mildew) in bluegrass	0.50 – 1.0 fl oz per 1,000 sq ft (0.008 – 0.016 lb ai)	Apply as a preventative treatment. Re-treat at 10- to 21-day intervals.	Apply as a foliar application to established turf in 1-5 gallons of water. Within the rate range given for turf, use the lower rate for the shortest interval listed and the higher specified rate for the longest interval. Under severe disease conditions, use the highest specified rate and shortest interval. During periods of prolonged conditions favorable for disease development, apply on a 14-day schedule.
Other diseases of turf	Refer to the Banner MAXX® II (Propiconazole, EPA Reg. No. 100-1326).		Use Banner MAXX II(Propiconazole, EPA Reg. No. 100- 1326) alone or in a tank-mix combination with **FALCHION**. Refer to the Banner MAXX II (Propiconazole, EPA Reg. No. 100-1326) label for rates, precautions, restrictions, etc.

Resistance Management:

- Refer to **Product Information**.
- **To minimize the potential for insensitivity:**
  - o Make no more than 2 applications per year of any product in which the **FALCHION** active ingredient is applied alone.
  - o Apply an alternate EPA-registered fungicide for Pythium control at least once during the year.

Restrictions:

1) **DO NOT** apply more than 1.0 fl oz (0.016 lb ai) per acre per application.
2) **DO NOT** make more than 50 applications per year.
3) **RTI:** 7 days

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in a tightly closed container in a cool, dry place. Store in original container and out ofreach of children, preferably in a locked storage area.

PESTICIDE DISPOSAL: Pesticide spray mixture or rinsate that cannot be used must be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER HANDLING:
For Residential uses
Nonrefillable container. DO NOT reuse or refill this container. If empty: Offer for recycling if available or discardin a sanitary landfill. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.
[For Commercial Uses]

For plastic containers ≤ 5 gallons: 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 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 or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.]

For plastic containers > 5 gallons: 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. Fill the container ¼ full with water. Recap 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. Then offer for recycling if available or punctureand dispose of in a sanitary landfill, or by other procedures allowed by state and local authorities.

WARRANTY AND DISCLAIMER STATEMENT

Use and Warranty and Disclaimer Statement 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 must be followed carefully. It is impossible to eliminate all risks associated with the use of this product including risks that may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors. Such risks are all beyond the control of **Longwind Cropscience USA LLC("LONGWIND")** and can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. All such risks shall be assumed by the user or buyer and to the extent permitted by applicable law, the user or buyer agree to hold **LONGWIND** harmless for any claims relating to such risks.

LONGWIND 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 described above, when used in accordance with the DIRECTIONS FOR USE under normal conditions.
To the extent permitted by applicable law, this warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of **LONGWIND**, and the user or buyer assume the risk of any such use.

To the extent permitted by applicable law, **LONGWIND** disclaims all other warranties, expressed or implied, including any warranty of merchantability or fitness for a particular purpose. To the extent permitted by applicable law, **LONGWIND**, manufacturer, and seller disclaim and shall not be liable for any special, incidental, indirect, or consequential damages (including claims based on breach of warranty, contract, negligence, tort, strict liability or otherwise) resulting from the use, handling, application, storage, or disposal of this product or for damages in the nature of penalties, and the user and buyer waive any right that they may have to such damages. No agent, representative or employee of **LONGWIND** is authorized to make any warranty, guarantee or representation beyond those contained herein or to modify the warranties contained herein.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF **LONGWIND**, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT **LONGWIND**'S ELECTION, THE REPLACEMENT OF THE PRODUCT.

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