
SUPPLEMENTAL LABELING

Syngenta Crop Protection, LLC
P. O. Box 18300
Greensboro, North Carolina 27419-8300
SCP 913A-S1-1118

PYMETROZINE	GROUP	9B	INSECTICIDE
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Endeavor®

Insecticide

This supplemental label expires on 11/14/2021 and must not be used or distributed after this date.

For control of listed insect pests on landscape and interiorscape ornamentals, field-grown and container-grown ornamentals, Christmas trees, and non-bearing fruit and nut trees produced in greenhouses, nurseries, lath and shade houses, and other outdoor growing structures.

For control of listed insect pests on vegetable plants grown for sale to consumers and produced in greenhouses, nurseries, lath and shade houses and other outdoor growing structures.

Active Ingredient:

Pymetrozine*	50.0%
Other Ingredients:	50.0%
Total:	100.0%

* CAS No. 123312-89-0

Endeavor is formulated as a water-dispersible granule.

**KEEP OUT OF REACH OF CHILDREN.
CAUTION**

EPA Reg. No. 100-913

All applicable directions, restrictions and precautions on the EPA registered label are to be followed. Before using ENDEAVOR as permitted according to this supplemental label, read and follow all applicable directions, restrictions, and precautions on the EPA registered label on or attached to the pesticide product container. This Supplemental Labeling contains revised use instructions and or restrictions that may be different from those that appear on the container label. Both the product label affixed to the container and this labeling must be in the possession of the user at the time of pesticide application.



DIRECTIONS FOR USE

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

Application through Irrigation Systems (Chemigation) CHEMIGATION

Endeavor may be applied by injection into an irrigation system, either alone or in combination with other pesticides or chemicals that are registered for application through irrigation systems. Dilution ratios for Endeavor are normally 1:100 to 1:200 depending on the system.

Apply Endeavor to listed plants through micro-irrigation (individual spaghetti tube), drip irrigation, overhead irrigation, or motorized irrigation equipment. Apply Endeavor according to use directions and not according to the irrigation schedule unless the events coincide. In general, set the equipment to apply the minimum amount of water per acre.

- Apply with center pivot or continuous-move equipment at a volume of ½ acre-inch or less during treatment. In general, use the least amount of water required for proper distribution and coverage.
- If stationary systems are used, such as solid set, hand lines or wheel lines other than continuous-move, this product should be injected into no more than the last 20-30 minutes of the set.

Specific Use Restrictions and Precautions for Chemigation

- **Do not** apply through any type of irrigation system not listed on this label.
- **Do not** make foliar applications when winds are greater than 10-15 mph to avoid drift or wind skips.
- **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
- Agitation must be maintained during the entire application period to ensure uniform chemigation.
- For foliar applications, thorough coverage of foliage is required for best control. Crop injury or reduced effectiveness can result from non-uniform distribution. Excessive water may also reduce effectiveness.
- Check with State and local regulatory agencies for potential use restrictions before applying any agricultural chemical through sprinkler irrigation equipment.

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 adjustments when necessary. If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers, or other experts.

4.5.2 OPERATING INSTRUCTIONS FOR CHEMIGATION EQUIPMENT

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

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.

1. 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.
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 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, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

5. 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.
6. Do not apply when wind speed favors drift beyond the area intended for treatment.

APPLICATION DIRECTIONS - DRENCH Ornamental Plants				
Breeding crops	Flowering plants	Pot and bedding plants		
Bulb, corm and tuber crops (such as tulips, calla lilies)	grown for seed production	Shrubs		
Evergreens, including conifers	Foliage plants	Trees, including non-bearing fruit and nut trees*		
Flowering plants	Ground covers	Vines (non-bearing)*		
	Palms			
	Perennial plants			
Target Pests	Drench Solution	Suggested Application Volumes*		Use Directions
Aphids Whiteflies Silverleaf whitefly (<i>Bermisia</i> spp. – Biotype B & Q) Greenhouse Whitefly (<i>Trialeurodes</i> <i>vaporariorum</i>)	5 oz per 100 gallons	Container Size (inches)	Fl oz drench solution/ container	Apply by soil-directed spray via ground application equipment or by chemigation. Begin applications prior to or when pests first appear. Use higher listed rates when longer residual control is needed. *Adjust drench volume accordingly to ensure thorough wetting of the root zone without leaching product from the container.
		4	3	
		5	4	
		6	4	
		7	7	
		8	10	
		10	20-25	
		For larger containers, apply 6 - 8 fl oz of drench solution per gallon of soil media. For flats, trays, benches, or beds, apply sufficient amount of drench solution to adequately wet soil media without leaching.		
USE RESTRICTIONS				
1) Refer to Section 5.1 for additional product use restrictions. 2) Maximum Single Application Rate: 10 oz/A/application (0.31 lb ai/A of pymetrozine-containing products) 3) Minimum Application Interval: 7 days 4) Maximum Annual Rate: a. Outdoor: 48 oz/A/year (1.5 lb ai/A/year of pymetrozine-containing products) b. Indoor: 100 oz/A/year (3.13 lb ai/A/year of pymetrozine-containing products) i. Do not apply more than 48 oz/A/year in CA. 5) Pre-Harvest Interval (PHI): NA				
*Non-bearing trees and vines are plants that will not bear edible fruit or nuts for one year after application.				

APPLICATION DIRECTIONS - FOLIAR – Vegetable Plants

Cole Crops		
Broccoli Broccoli raab Brussels sprouts Cabbage Cauliflower Cavalo broccolo	Chinese broccoli Chinese cabbage (bok choy, napa) Chinese mustard cabbage Collards Kale	Kohlrabi Mizuna Mustard greens Mustard spinach Rape greens Turnip greens
Target Pests	Application Rate	Use Directions
Aphids: Cabbage aphid Green peach aphid Turnip aphid Whiteflies (suppression)	2.75 oz per A (0.31 oz per 5,000 sq ft)	Apply by foliar spray or by chemigation. Apply when pests first appear, before populations build to damaging levels. Two applications on a 14-day interval may be needed to control persistent populations.
Cucurbit Vegetables		
Chayote Chinese waxgourd Citron melon Cucumber	Edible gourd Gherkin <i>Momordica</i> spp. Muskmelon	Pumpkin Squash: summer, winter Watermelon
Target Pests	Application Rate	Use Directions
Aphids: Green peach aphid Melon aphid Whiteflies (suppression)	2.75 oz per A (0.31 oz per 5,000 sq ft)	Apply by foliar spray or by chemigation. Apply when pests first appear, before populations build to damaging levels. Two applications on a 14-day interval may be needed to control persistent populations.
Fruiting Vegetables		
Eggplant Ground cherry Pepino	Peppers: bell, chili, cooking, pimento, and sweet Tomatillo	
Target Pests	Application Rate	Use Directions
Aphids: Green peach aphid Potato aphid Whiteflies (suppression)	2.75 oz per A (0.31 oz per 5,000 sq ft)	Apply by foliar spray or by chemigation. Apply when pests first appear,

		<p>before populations build to damaging levels.</p> <p>Two applications on a 14-day interval may be needed to control persistent populations.</p>
Leafy Vegetables		
Amaranth	Dandelion	Head lettuce
Arugula	Dock (sorrel)	Leaf lettuce
Cardoon	Edible-leaved chrysanthemum	Orach
Celery	Endive (escarole)	Parsley
Celtuce	Fennel, Florence	Radicchio
Chervil	Garden/Upland cress	Rhubarb
Chinese celery	Garden/Winter purslane	Spinach
Corn salad	Garland chrysanthemum	Swiss chard
Target Pests	Application Rate	Use Directions
<p>Aphids:</p> <ul style="list-style-type: none"> Bean aphid Green peach aphid Lettuce aphid Potato aphid Red lettuce aphid <p>Whiteflies</p>	<p>2.75 oz per A</p> <p>(0.31 oz per 5,000 sq ft)</p>	<p>Apply by foliar spray or by chemigation.</p> <p>Apply when pests first appear, before populations build to damaging levels.</p> <p>Two applications on a 14-day interval may be needed to control persistent populations.</p>
USE RESTRICTIONS		
<ul style="list-style-type: none"> • Maximum Single Application Rate: For applications made outdoors and indoors, do not apply more than 2.75 oz per acre per application. • Maximum Annual Rate (per crop): For applications made outdoors and indoors: <ul style="list-style-type: none"> ○ Do not apply more than 5.5 oz per acre per crop per year. • Maximum Annual Rate – Outdoor applications: <ul style="list-style-type: none"> ○ Do not apply more than 66.8 oz per acre per year. • Maximum Annual Rate – Indoor applications: <ul style="list-style-type: none"> ○ Do not apply more than 166.7 oz per acre per year. ○ CA only: For indoor use, do not apply more than 80 oz (2.5 lb pymetrozine) per acre per year. • Apply only to vegetable plants grown for sale to consumers. • Allow a minimum of 7 days (PHI) between last application and sale or shipping of vegetable plants intended for sale to consumers. 		

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