



**OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION**

WASHINGTON, D.C. 20460

October 31, 2024

Edward Hearn  
Agent  
Generic Crop Science, LLC  
1887 Whitney Mesa Drive #9740  
Henderson, NV 89014

Subject: Label Amendment - Registration Review Mitigation for Bifenazate  
Product Name: Willowood Bifenazate 4SC  
EPA Registration Number: 87290-71  
Application Date: September 27, 2023 and October 11, 2024  
Decision Number: 596291

Dear Edward Hearn:

The Agency, in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the bifenazate Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

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

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling and must be used at your next label printing. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Concepción Rodríguez by phone at 202-566-0820, or via email at [rodriguez.concepcion@epa.gov](mailto:rodriguez.concepcion@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to be "Linda Arrington", with a stylized flourish at the end.

Linda Arrington, Branch Chief  
Risk Management and Implementation Branch 4  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs

ENCLOSURE: Stamped label

[MASTER LABEL]

{BOOKLET FRONT PANEL LANGUAGE}

BIFENAZATE	GROUP	20D	ACARICIDE
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Willowood Bifenazate 4SC

Agricultural Miticide  
For Agricultural Use Only

ACTIVE INGREDIENT:	(% by weight)
Bifenazate: hydrazine carboxylic acid, 2-(4-methoxy[1,1'-biphenyl]-3-yl)-, 1-methylethyl ester .....	43.2%
OTHER INGREDIENTS: .....	56.8%
TOTAL:	100.0%

Contains 4 lbs. active ingredient bifenazate per gallon.

KEEP OUT OF REACH OF CHILDREN  
CAUTION

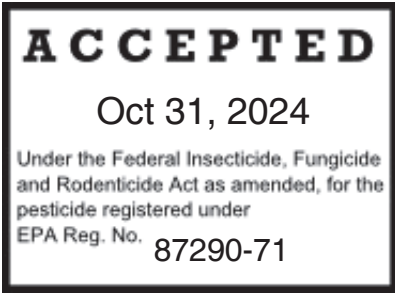
FIRST AID	
If in eyes:	<ul style="list-style-type: none"><li>Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li><li>Call a poison control center or doctor for treatment advice.</li></ul>
If on skin:	<ul style="list-style-type: none"><li>Take off contaminated clothing.</li><li>Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>Call a poison control center or doctor for treatment advice.</li></ul>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For general information on product use, etc., call the National Pesticides Information Center (NPIC) at <b>1-800-858-7378</b> Mon. - Fri. 8:00 am to 12:00 pm Pacific Time. For emergencies, call the poison control center at <b>1-800-222-1222</b> .	

[See label booklet for [additional] [complete] [First Aid,] [Precautionary Statements,] Directions for Use[,] [and] [Storage and Disposal] [,] [and] [Conditions of Sales and Warranty].].

EPA Reg. No.: 87290-71  
Manufactured for:  
Generic Crop Science, LLC  
1887 Whitney Mesa Drive #9740  
Henderson, NV 89014-2069

EPA Est. No.:

Net Contents:



{LANGUAGE INSIDE BOOKLET}

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

Causes moderate eye irritation. Avoid contact with eyes, skin or clothing.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

**Applicators and Other Handlers Must Wear:**

- Long-sleeved shirt and long pants;
- Shoes plus socks, and
- For mixing and loading activities when not using a closed system, wear an apron and chemical- resistant gloves made of barrier laminate, polyethylene, butyl rubber ( $\geq 14$  mils), nitrile rubber ( $\geq 14$  mils), neoprene rubber ( $\geq 14$  mils), natural rubber ( $\geq 14$  mils), polyvinyl chloride ( $\geq 14$  mils), or Viton ( $\geq 14$  mils).

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS**

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets insides. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing them. As soon as possible, wash thoroughly and change clothing.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to birds, aquatic invertebrates, and fish. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate. This product is moderately toxic to bees and other pollinating insects exposed to direct treatment or to residues in/on blooming crops or weeds. Protect pollinating insects by following label directions intended to minimize drift and to reduce pesticide risk to these organisms. Do not apply this product if bees or other pollinating insects are visiting the treatment area.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not store with, use near, mix, or allow to come in contact with oxidizing agents. Hazardous chemical reactions 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.

**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), notification to workers, 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 12 hours**. [Exceptions are listed under the Use Instructions for each crop.]

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants soil, or water is:

- Coveralls
- Shoes plus socks
- Chemical-resistant gloves made of barrier laminate, polyethylene, butyl rubber ( $\geq 14$  mils), nitrile rubber ( $\geq 14$  mils), neoprene rubber ( $\geq 14$  mils), natural rubber ( $\geq 14$  mils), polyvinyl chloride ( $\geq 14$  mils), or Viton ( $\geq 14$  mils)

#### USE INFORMATION

Willowood Bifenazate 4SC is a suspension concentrate (flowable). It is a selective miticide for the control of a variety of mite pests on the crops listed on this label. When used as directed and applied to the foliage, it provides knockdown through contact activity, and long residual control. Due to its carbazate chemistry, mode of action and selective nature, Willowood Bifenazate 4SC is nearly inactive against beneficial/predaceous mites and insects and therefore is compatible with IPM and resistance management programs.

Willowood Bifenazate 4SC is not systemic in action; therefore complete coverage of both upper and lower leaf surfaces is necessary for effective control.

#### SHAKE WELL BEFORE USING

##### MANDATORY SPRAY DRIFT MANAGEMENT

###### Aerial Applications:

- Do not release spray at a height greater than 10 feet above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to use fine or coarser droplet size (ANSI/ASABE S641).
- The boom length must not exceed 65% of the wingspan for airplanes or 75% of the rotor blade diameter for helicopters.
- Applicators must use 1/2 swath displacement upwind at the downwind edge of the field.
- Nozzles must be oriented so the spray is directed toward the back of the aircraft.
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

###### Ground Boom Applications:

- Apply with the nozzle height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to use Fine or coarser droplet size (ANSI/ASABE S572.3).
- Do not apply when wind speeds exceed 10 miles per hour at the application site.
- Do not apply during temperature inversions.

#### SPRAY DRIFT ADVISORIES

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

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

#### IMPORTANCE OF DROPLET SIZE

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

##### Controlling Droplet Size - Ground Boom

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

##### Controlling Droplet Size - Aircraft

- Adjust Nozzles - Follow nozzle manufacturers recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles

should be oriented parallel with the airflow in flight.

### **BOOM HEIGHT - Ground Boom**

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

### **RELEASE HEIGHT - Aircraft**

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

### **SHIELDED SPRAYERS**

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

### **TEMPERATURE AND HUMIDITY**

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

### **TEMPERATURE INVERSIONS**

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

### **WIND**

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS. Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

## **MIXING INSTRUCTIONS**

Fill spray tank with ½ the desired amount of water. Then add the required amount of Willowood Bifenazate 4SC with agitation running to fully disperse the product. Then fill the tank with the remaining amount of required water.

Like many pesticides, Willowood Bifenazate 4SC stability can be impacted by high pH and high temperature. For optimum performance, maintain spray mixtures containing Willowood Bifenazate 4SC within a range of pH 5.5 to 6.5.

**Restrictions:** Tank mixtures are permitted only in those states where the tank mix portion is registered. It is the pesticide user's responsibility to ensure that all pesticide products used in the tank mix are registered for the intended use. Read and follow the applicable restrictions, 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.

**Compatibility:** To obtain broad spectrum insect control, Willowood Bifenazate 4SC can be tank-mixed with other insecticide products. However, due to variations in water quality, e.g., hardness and pH, it is required that users conduct small scale trials under local conditions to ensure compatibility prior to any large scale use.

## **USE RATES AND INSTRUCTIONS**

Refer to **USE INSTRUCTIONS** table for application rates, application number, and PHI for labeled crops.

**For ground application,** also refer to **USE INSTRUCTIONS** table for minimum gallons of spray solution per acre using equipment such as, but not limited to, compressed air, hydraulic ground boom or air-blast sprayers.

**For aerial application,** also refer to **USE INSTRUCTIONS** table for minimum gallons of spray solution per acre (or the minimum permitted by your state, but not less than shown) using either a fixed-wing aircraft or helicopter. Always use a spray volume adequate to assure complete coverage of the crop canopy.

**For chemigation application**, refer to **CHEMIGATION USE PRECAUTIONS FOR MINT AND POTATOES** section; **USE INSTRUCTIONS** table exhibits application rate range. Only one application may be made per calendar year. Sprinkler systems must be operated at 80 to 100% during treatment application to apply the minimum amount of water possible.

To provide maximum residual control, make application as soon as mites appear. Use the lower rate where mite infestations are light. The higher rate may be required for heavy infestations or for extended residual control.

When used as directed, Willowood Bifenazate 4SC is effective for the control of a variety of mites species, especially spider mites, red mites and grass mites. **IMPORTANT:** It is not effective against rust mites, broad mites and flat mites. Willowood Bifenazate 4SC is primarily active on the motile stage of mites, but also has ovicidal activity against spider mites (*Tetranychus* species).

#### Restrictions:

- Rotational Crops – This product has a plantback restriction of 30 days. Do not plant another crop within 30 days after last Willowood Bifenazate 4SC application due to chances of bifenazate residues showing up in rotational crops.
- Do not exceed the maximum amount of bifenazate allowed per crop per calendar year, regardless of the bifenazate-containing product(s) used.
- Do not tank mix oil with Willowood Bifenazate 4SC when applying to Golden Delicious apples.
- Human flagging is prohibited. Flagging to support aerial application is limited to use of the Global Positioning System (GPS) or mechanical flaggers.

#### MITES CONTROLLED

Avocado Red Spider	Clover	Pecan leaf scorch	Spruce spider mite
Banks grass	European red (use maximum rate)	Persea	Strawberry spider
Brown almond	McDaniel	Sixspotted	Two-spotted spider
Citrus red	Pacific Spider	Southern red mite	Willamette

#### BEARING CROPS USE INSTRUCTIONS

CROP	AMOUNT WILLOWOOD BIFENAZATE 4SC PER ACRE* FL. Oz.	MINIMUM GALLONS PER ACRE		CHEMIGATION ACRE INCHES OF WATER	TOTAL NUMBER OF SPRAYS PER CALENDAR YEAR	MINIMUM DAYS BETWEEN APPLICATIONS ***	HARVEST DAYS AFTER APPLICATION (PHI DAYS)
		Ground	Air**				
<b>AVOCADO</b>	12 -16 (0.375-0.50 lb. ai/A)	50	--	--	2 (maximum 1.0 lb. ai/A)	21	7
<b>CANEBERRY</b> (within Crop Subgroup 13-07A) Blackberry Loganberry Raspberry (red, black, wild) And cultivars and/or hybrids of these	12 -16 (0.375-0.50 lb. ai/A)	50	--	--	2 (maximum 1.0 lb. ai/A)	30	1
<b>CHRISTMAS TREES/CONIFER PLANTATIONS AND NURSERIES</b>	12 -16 (0.375-0.50 lb. ai/A)	100	10	--	1 (maximum 0.50 lb. ai/A)	--	--
<b>COTTON</b>	16 – 24 (0.50-0.75 lb. ai/A)	20	5	--	1 (maximum 0.75 lb. ai/A)	--	60

<b>CUCURBIT</b> (within Crop Group 9) Chayote (fruit), Chinese waxgourd, Citron melon, Cucumber, Gherkin, Gourd (edible), Balsam apple, Balsam pear, Bitter melon, Chinese cucumber, Muskmelon ( <i>Mormordica</i> spp) (hybrids and/or cultivars of <i>Cucumis melo</i> including cantaloupe, true cantaloupe, casaba, crenshaw, golden pershaw, honeydew, honey ball melon, mango, Persian, pineapple, Santa Clause, snake), Pumpkin, Squash (summer and winter, includes crookneck, scallop, straight neck, vegetable marrow, zucchini, butternut, calabaza, hubbard squash, acorn squash, and spaghetti squash), Watermelon	12 – 16 (0.375-0.50 lb. ai/A)	50	10	--	1 (maximum 0.50 lb. ai/A)	--	3
<b>FRUITING VEGETABLES</b> (within Crop Group 8-10) Eggplant (including African, pea, scarlet), Cocona, Garden huckleberry, Goji berry, Groundcherry, Martynia, Naranjilla, Okra, Pepino, Pepper (bell, non-bell, chili, cooking, hot, pimento, sweet), Roselle, Sunberry, Tomato (including bush, currant, tree), Tomatillo, & Cultivars, varieties and/or hybrids of these	12 – 16 (0.375-0.50 lb. ai/A)	50	10	--	1 (maximum 0.50 lb. ai/A)	--	3
<b>GRAPES<sup>1</sup> AND OTHER CLIMBING VINE SMALL FRUIT (EXCEPT FUZZY KIWIFRUIT)</b> (within Crop Sub- Group 13-07F) Amur river grape, Gooseberry, Kiwifruit (hardy), Maypop, Schisandra berry, & Cultivars, varieties and/or hybrids of these	12 – 16 (0.375-0.50 lb. ai/A)	50	--	--	1 (maximum 0.50 lb. ai/A)	--	14
<b>HOPS</b>	12 – 24 (0.375-0.75 lb. ai/A)	50	--	--	1 (maximum 0.75 lb. ai/A)	--	14
<b>LEGUME VEGETABLES within Crop Sub-Group 6A (succulent); SUCCULENT PEAS and BEANS within Crop Sub-Group 6B; SUCCULENT SHELLED SOYBEAN</b> Bean ( <i>Lupinus</i> spp.) (includes grain lupin, sweet lupin, white lupin, and white sweet lupin); Bean ( <i>Phaseolus</i> spp.) (includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean; Bean ( <i>Vigna</i> spp) (includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean); broadbean (fava); jackbean; pea ( <i>Pisum</i> spp.) (including dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea); pigeon pea; soybean (immature seed); sword bean	16 –24 (0.50-0.75 lb. ai/A)	20	10	--	2 (maximum 1.50 lbs. ai/A)	14	3
<b>MINT</b>	12 – 24 (0.375-0.75 lb. ai/A)	50	10	0.1 – 0.2 See separate Chemigation Use Instructions	1 (maximum 0.75 lb. ai/A)	--	7
<b>POME FRUITS</b> (within Crop Group 11- 10) Apple, Azarole, Crabapple, Medlar, Pear	12 – 16 (0.375-0.50 lb. ai/A)	50	--	--	1 (maximum	--	7



(including Asian, Oriental), Quince (including Chinese, Japanese), Tejocote, & Cultivars, varieties and/or hybrids of these					0.50 lb. ai/A)		
<b>POTATOES TUBEROUS AND CORM VEGETABLES</b> Arracacha; arrowroot; artichoke, Chinese; artichoke, Jerusalem; canna, edible; cassava, bitter and sweet; chayote (root); chufa; dasheen (taro); ginger; leren; potato; sweet potato; tanier; turmeric; yam bean, yam, true	16 – 24 (0.50-0.75 lb. ai/A)	20	10	0.1 -0.2 See separate Chemigation Use Instructions	2 (maximum 1.5 lbs. ai/A)	14	14
<b>STRAWBERRY</b> Bearberry, Bilberry, Lowbush blueberry, Cloudberry, Cranberry, Lingonberry, Muntries, Partridgeberry, & Cultivars, varieties and/or hybrids of these	12 – 16 (0.375-0.50 lb. ai/A)	100	--	0.1 -0.2 See separate Chemigation Use Instructions for Cranberries	2 (See footnote 2) (maximum 1.0 lb. ai/A)	21	1
<b>STONE FRUIT</b> Apricot, Cherry (sweet, tart), Nectarine, Peach, Plum (Chickasaw, damson, Japanese), Prune (fresh)	12 – 16 (0.375-0.50 lb. ai/A)	50	--	--	1 (maximum 0.50 lb. ai/A)	--	3
<b>TIMOTHY</b> forage and hay to be fed only to horses. Application can only be made in Eureka and Humboldt counties in Nevada.	16 – 24 (0.50-0.75 lb. ai/A)	20	10	0.1 – 0.2 See separate Chemigation Use Instructions	1 (maximum 0.75 lb. ai/A)	--	Forage 0 Hay 7
<b>TREE NUTS</b> Almond, Beech nut, Brazil nut, Butternut, Cashew, Chestnut, Chinquapin, Hickory nut, Macadamia (bush nut) Filbert (hazelnut), Pecans, Pistachios, Walnut (black and English (Persian))	12 – 24 (0.375-0.75 lb. ai/A)	50	--	--	1 (maximum 0.75 lb. ai/A)	--	7 14
<b>TROPICAL FRUIT</b> Papaya, Star apple, Black sapote, Mango, Sapodilla, Canistel, Mamey Sapote, Lychee, Longan, Spanish lime, Rambutan, Pulasan, Guava, Feijoa, Jaboticaba, Wax Jambu, Starfruit (Carambola), Passionfruit, Acerola, Sugar apple, Cherimoya, Atemoya, Custard apple, Ilama, Soursap, Birida	12 – 16 (0.375- 0.50 lb. ai/A)	50	--	--	2 (maximum 1.0 lb. ai/A)	21	1

\*Use the highest specified rate under heavier mite pressure.

\*\*Minimum gallonage per acre permitted by state, but less than shown.

\*\*\*Use a miticide with a different mode-of-action between any two (2) applications of this product.

<sup>1</sup>The REI is 5 days for cane turning, tying and girdling of table grapes. Exception: In addition to the early entry exceptions allowed by WPS, you may enter or allow workers to enter treated areas to perform tasks other than tying, turning and girdling after 12 hours following applications, as long as at least long pants, long-sleeved shirts, shoes and socks are worn. Notify workers of the exception (including when entry is permitted for each of the tasks named in the exception).

<sup>2</sup>Strawberry (only): 2 Applications may be made per crop cycle, with up to 2 crop cycles per calendar year.

#### NON-BEARING CROPS USE INSTRUCTIONS

Willowood Bifenazate 4SC use on non-bearing crops, i.e. those crops which will not bear fruit within one calendar year of application, **includes all the crops listed in the bearing crops use instructions plus crops listed below.** These include fruit trees and berries in both commercial plantings and nurseries, including transplant uses but excluding residential areas. **The listed non-bearing crops all have a 12- hour restricted entry interval (REI).** Application is by ground equipment only. Additional non-bearing crops that may be so treated are:

CROPS	MITES CONTROLLED	AMOUNT WILLOWOOD BIENAZATE 4SC PER ACRE	MINIMUM GALLONS SPRAY SOLUTION PER ACRE	TOTAL NUMBER OF SPRAYS PER CALENDAR YEAR
<b>Berries</b> (blueberry, highbush; elderberry; huckleberry)  <b>Citrus</b> (grapefruit, lemons, limes, oranges, tangerines, etc.)  <b>Currants; Dates, Figs</b>  <b>Persimmons</b>	Banks grass Brown almond Citrus red Clover European red (use maximum rate) McDaniel Pacific Spider Pecan leaf scorch Strawberry spider Southern red mite Spruce spider mite Two-spotted spider Willamette	12 – 16 fl. oz. (0.375-0.50 lb. ai/A)	50	1 (maximum 0.50 lb. ai/A)

### CHEMIGATION USE PRECAUTIONS AND INSTRUCTIONS FOR CRANBERRY, MINT, POTATOES AND TIMOTHY FOR FORAGE/HAY

- A. Apply this product only through sprinkler systems, including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system.
- B. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non- uniform distribution of treated water.
- C. If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts.
- D. 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.
- E. 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 the necessary adjustments should the need arise.
- F. 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.
- G. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- H. 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.
- I. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- J. 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.
- K. 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.
- L. Do not apply when wind speed favors drift beyond the area intended for treatment.
- M. Constant agitation must be maintained in the chemical supply tank during the entire period of miticide application.
- N. Inject the product with a positive displacement pump into the main line ahead of a right angle turn to ensure adequate mixing.
- O. Application of more than label recommended quantities of irrigation water per acre may result in decreased product performance by removing the chemical from the zone of effectiveness.
- P. Do not apply when system connections or fittings leak, when nozzles do not provide uniform distribution or when lines containing the product must be dismantled and drained.
- Q. Greater accuracy in calibration and distribution will be achieved by injecting a larger volume or more dilute mixture per hour. Apply pesticide continuously for the duration of the water addition.
- R. Where sprinkler irrigation patterns do not overlap sufficiently unacceptable mite control may result. Where sprinkler distribution patterns overlap excessively crop injury may result.
- S. Check with state lead agencies for state specific chemigation requirements.

### RESISTANCE MANAGEMENT

- For resistance management, Willowood Bifenazate 4SC contains a Group 20D acaricide. Any insect/mite population may contain individuals naturally resistant to Willowood Bifenazate 4SC and other Group 20D acaricides. The resistant individuals may dominate the insect/mite population if this group of acaricides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.
- To delay acaricide resistance, take the following steps:
  - Rotate the use of Willowood Bifenazate 4SC or other Group 20D acaricides within a growing season, or among growing seasons, with different groups that control the same pests. Avoid application of more than 24 fl. oz./A and consecutive sprays of Willowood Bifenazate 4SC or other insecticides in the same group in a season.
  - Use tank mixtures with insecticides/acaricides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
  - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
  - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
  - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
  - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
  - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide/acaricides use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
- Because of its selectivity, Willowood Bifenazate 4SC can be used in conjunction with most biological control organisms available for mite control. Willowood Bifenazate 4SC, when used as directed, does not adversely affect populations of beneficial/predaceous mites and insects including:

Common Name	Scientific Name
Predatory mite	<i>Amblyseius fallacis</i>
Predatory mite	<i>Phytoseiulus persimilis</i>
Western predatory mite	<i>Typhlodromus occidentalis</i>
Predatory mite	<i>Typhlodromus pyri</i>
Predatory mite	<i>Zetzellia mali</i>
Seven-spotted lady beetle	<i>Coccinella septempunctata</i>
Spider mite destroyer	<i>Stethorus punctum</i>
Common lacewing	<i>Chrysopa carnea</i>
Insidious flower bug	<i>Orius insidiosus</i>
Six-spotted thrip	<i>Scolothrips sexmaculatus</i>
Western flower thrip	<i>Frankliniella occidentalis</i>

The use of these organisms in conjunction with Willowood Bifenazate 4SC is encouraged as a means of reducing the number of chemical applications.

- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact your Generic Crop Science, LLC representative.

## STORAGE AND DISPOSAL

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

### PESTICIDE STORAGE:

Store in a dry location.

**PESTICIDE DISPOSAL:**

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING:**

**[Nonrefillable Container (five gallons or less):]** Nonrefillable container. Do not reuse or refill this 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 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer container for recycling if available or reconditioning if appropriate or puncture and dispose of container in a sanitary landfill or by incineration.

**[Nonrefillable Container (greater than five gallons):]** Nonrefillable container. Do not reuse or refill this 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. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer container for recycling if available or reconditioning if appropriate or puncture and dispose of container in a sanitary landfill or by incineration.

**CONDITION 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 must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of Generic Crop Science, LLC or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Generic Crop Science, LLC and Seller harmless for any claims relating to such factors.

Generic Crop Science, LLC 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 this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Generic Crop Science, LLC, and Buyer and User assume the risk of any such use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, GENERIC CROP SCIENCE, LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

To the extent consistent with applicable law, neither Generic Crop Science, LLC nor Seller shall 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 GENERIC CROP SCIENCE, LLC 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 GENERIC CROP SCIENCE, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

Generic Crop Science, LLC 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 Generic Crop Science, LLC.

EPA APPROVAL DATE

## {LANGUAGE ON LABEL AFFIXED TO CONTAINER}

BIFENAZATE	GROUP	20D	ACARICIDE
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# Willowood Bifenazate 4SC

**ACTIVE INGREDIENT:** (% by weight)

Bifenazate: hydrazine carboxylic acid, 2-(4-methoxy[1,1'-biphenyl]-3-yl)-, 1-methylethyl ester .....43.2%

**OTHER INGREDIENTS** .....56.8%

**TOTAL:** .....100.0%

Contains 4 lbs. active ingredient bifenazate per gallon.

## KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For general information on product use, etc., call the National Pesticides Information Center (NPIC) at <b>1-800-858-7378</b> Mon. - Fri. 8:00 am to 12:00 pm Pacific Time. For emergencies, call the poison control center at <b>1-800-222- 1222</b> .	

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Causes moderate eye irritation. Avoid contact with eyes, skin or clothing.

## STORAGE AND DISPOSAL

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**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

#### CONTAINER HANDLING:

**[Nonrefillable Container (five gallons or less):]** Nonrefillable container. Do not reuse or refill this 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 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer container for recycling if available or reconditioning if appropriate or puncture and dispose of container in a sanitary landfill or by incineration.

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**See label booklet for additional Precautionary Statements and Directions for Use.**

**EPA Reg. No.: 87290-71**

**EPA Est. No.:**

#### Manufactured for:

Generic Crop Science, LLC  
1887 Whitney Mesa Drive #9740  
Henderson, NV 89014-2069

**Net Contents:**