



## OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

September 11, 2024

Jeanette A. Covert  
Regional Regulatory Manager  
UPL NA Inc.  
630 Freedom Business Center, Ste. 402  
King of Prussia, PA 19406

Subject: Label Amendment - Registration Review Mitigation for Bifenazate  
Product Name: Floramite SC/LS  
EPA Registration Number: 70506-538  
Application Date: March 13, 2018  
Decision Number: 596227

Dear Jeanette Covert:

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 Caleb Carr by phone at (202) 566-0636, or via email at [carr.caleb@epa.gov](mailto:carr.caleb@epa.gov).

Sincerely,

A handwritten signature in blue ink, appearing to read "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

BIFENAZATE	GROUP	20D	ACARICIDE
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# Floramite® SC/LS

ORNAMENTAL MITICIDE

ACTIVE INGREDIENT:	% BY WT.
Bifenazate: Hydrazine carboxylic acid, 2-(4-methoxy-[1,1'-biphenyl]-3-yl) 1-methylethyl ester.....	22.6%
OTHER INGREDIENTS: .....	77.4%
TOTAL: .....	100.0%
Contains 2 lbs bifenazate per gallon	

## KEEP OUT OF REACH OF CHILDREN CAUTION / PRECAUCIÓN

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 [front][back][side] Panel for First Aid Instructions and [Leaflet][Booklet] for Complete Precautionary Statements and Directions for Use.”

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
For emergency medical treatment, contact Rocky Mountain Poison and Drug Safety at 1-866-673-6671.	

FOR 24-HOUR CHEMICAL EMERGENCY (Spill, leaks, fire, exposure or accident) CALL  
CHEMTREC: 1-800-424-9300 or +1-703-527-3887

For Product Use Information Call 1-866-761-9397

EPA Reg. No. 70506-538

EPA EST. NO.:

xxxxxxV0112

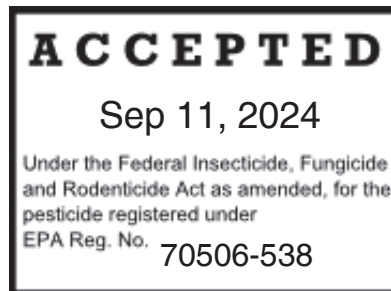
NET CONTENTS:

[Batch Code will be placed on the container]

Produced For:



UPL NA INC.  
630 Freedom Business Center, Suite 402  
King of Prussia, PA 19406 U.S.A



## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION** Harmful if swallowed. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### Applicators and Other Handlers Must Wear:

- Long-sleeved shirt and long pants; and
- Shoes plus socks.

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 thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then, wash thoroughly and change into clean clothing.
- Remove PPE immediately after handling this product. As soon as possible, wash thoroughly and change clothing.

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds, estuarine/marine 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 while bees are foraging the treatment area.

### PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

## DIRECTIONS FOR USE

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

Do not apply this product through any type of irrigation system. 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.

### 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.

Keep unprotected persons out of treated areas until sprays have dried.

### USE INFORMATION

**FLORAMITE® SC/LS** is a selective miticide for the control of a variety of mite pests on the following plants:

- All ornamental plants, including bedding plants, flowering plants, foliage plants, ornamental bulb plantings, perennials, trees and shrubs.
- All non-bearing fruit trees which will not bear fruit for a minimum of 12 months.

**FLORAMITE SC/LS** may be used only in the following areas where these plants are grown and / or maintained in containers or in the ground:

- Landscapes
- Residences
- Public, commercial, industrial and institutional areas
- Recreational sites, such as campgrounds, golf courses, parks and athletic fields

- Rights of way and other easements.

**Restriction: FLORAMITE SC/LS** is not for use on plants grown for sale or other commercial use, or for seed production, or for research purposes, and/or maintained in interiorscapes, including plants grown in greenhouses, shadehouses, and nurseries.

When used as directed and applied to the foliage, **FLORAMITE SC/LS** provides knockdown through contact activity, and long residual control. Due to its carbazate chemistry, mode of action and selective nature, **FLORAMITE SC/LS** is relatively inactive against beneficial / predacious mites and insects, and therefore is compatible with IPM and resistance management programs.

**FLORAMITE SC/LS** is not systemic in action; therefore complete coverage of both upper and lower leaf surfaces is necessary for effective control.

#### MIXING INSTRUCTIONS

Fill the spray-tank with 1/2 the desired amount of water. Then add the required amount of **FLORAMITE SC/LS** with agitation running to fully disperse the product. Then fill the tank with the remaining amount of required water.

Like many pesticides, **FLORAMITE SC/LS** stability can be impacted by high pH and high temperature. Maintain spray mixtures containing **FLORAMITE SC/LS** within a range of pH 5.5 to 6.5.

**Compatibility:** To obtain broad-spectrum insect control, **FLORAMITE SC/LS** 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.

**Restrictions:** Tank-mixtures are only permitted in States where all of the pesticide products used as tank-mix partners are registered. It is the pesticide user's responsibility to ensure that all products used in the tank-mix are registered for the intended use. Users must follow the most restrictive of all of the labeled use directions, precautionary language, and use limitations for the tank-mix partners.

#### MANDATORY SPRAY DRIFT MANAGEMENT

##### 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/ASAE 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.

#### 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.

#### 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.

## USE RATES AND APPLICATION INFORMATION

Mix 4 - 8 fl oz **FLORAMITE SC/LS** in 100 gals. of water (1/4 – 1/2 tsp/gal) and apply as a full coverage spray to the foliage using a volume of 1 to 4 qts of final solution per 100 sq ft (or 100 to 400 gals per acre). Actual spray volume will vary depending on the size of plants being treated. Application should be made as soon as mites appear and will provide residual control for up to 28 days. Use 4 fl oz per 100 gallons of water (1/4 tsp per gallon) for preventative applications or where mite infestations are light. Up to 8 fl oz per 100 gallons of water (1/2 tsp per gallon) may be required for heavy infestations or for extended residual control. For optimum coverage of hard-to-wet foliage, an adjuvant can be added to the **FLORAMITE SC/LS** / water solution. Those found to be both safe and effective are Silwet 77® or Sylgard 309® at 4 oz per 100 gallons of water. Users should test safety and compatibility of all adjuvants prior to commercial use.

When used as directed, **FLORAMITE SC/LS** is effective for the control of a variety of mite species, especially spider mites, red mites and grass mites. NOTE: It is not effective against rust mites, broad mites and flat mites. **FLORAMITE SC/LS** is primarily active on the motile stages of mites, but also has ovicidal activity against spider mites (*Tetranychus* species). Common mite species controlled by **FLORAMITE SC/LS** include:

COMMON NAME	SCIENTIFIC NAME
Two spotted spider mite	<i>Tetranychus urticae</i> (Koch)
Pacific mite	<i>Tetranychus pacificus</i> (McGregor)
Strawberry mite	<i>Tetranychus turkestanii</i>
European red mite	<i>Panonychus ulmi</i> (Koch)
Citrus red mite	<i>Panonychus citri</i> (McGregor)
Clover mite	<i>Bryobia praetiosa</i> (Koch)
Southern red mite	<i>Oligonychus ilicis</i> (McGregor)
Spruce spider mite	<i>Oligonychus ununguis</i> (Jacobi)
Bamboo spider mite	<i>Schizotetranychus celarius</i> (Banks)
Lewis mite	<i>Eotetranychus lewisi</i>

### Restrictions:

- Do not apply more than 32 fl oz per acre per year.
- Do not make more than two (2) applications of **FLORAMITE SC/LS** per crop per year.

Apply **FLORAMITE SC/LS** by the following types of ground equipment: compressed air sprayers, hydraulic sprayers, ground boom sprayers, air blast sprayers. Do not apply by aerial application.

## STRATEGIES FOR RESISTANCE MANAGEMENT

**FLORAMITE SC/LS**, when used as directed, combines high activity on mites with selectivity to beneficial/ predacious mites and insects. In addition, the carbazate chemistry of **FLORAMITE SC/LS** provides a means of controlling mites which have developed resistance to more commonly used products. These properties can result in fewer miticide / insecticide applications as well as general reduction in the problems caused by resistance. **FLORAMITE SC/LS** has demonstrated no cross-resistance with other commercial miticides. **FLORAMITE SC/LS** contains an active ingredient classified as a Group 20D acaricide. **FLORAMITE SC/LS** is suitable to be used as a rotational partner with other miticides.

To reduce selection pressure which can lead to the development of resistance, **FLORAMITE SC/LS** should be used in moderation. To help achieve this, the following strategies are recommended:

- Incorporate IPM techniques into your insect control program.
- Ensure thorough spray coverage to all foliage.
- Scout regularly and apply **FLORAMITE SC/LS** as soon as infestations are observed. Do not wait until large populations have established.
- Always apply **FLORAMITE SC/LS** at the required rates and according to label information.
- If feasible, apply only one application of **FLORAMITE SC/LS** before rotating to products of an alternative chemical

class. Again, if feasible, use at least two alternative products between treatments of **FLORAMITE SC/LS**.

- Use **FLORAMITE SC/LS** in conjunction with biological control organisms available for mite control. **FLORAMITE SC/LS** when used as directed, does not adversely affect populations of beneficial / predacious mites and insects, including:

Predatory Mites	Beneficial Insects
<i>Phytoseiulus persimilis</i>	<i>Chrysoperla carnea</i> (common green lacewing)
<i>Neoseiulus spp.</i>	<i>Aphidius colemani</i>
<i>Typhlodromus spp.</i>	<i>Aphidoletes aphidomyza</i>
<i>Amblyseius spp.</i>	<i>Orius insidiosus</i> (insidious pirate bug)
<i>Zetzellia mali</i>	<i>Coccinella septempunctata</i>
<i>Iphiseius degenerans</i>	<i>Hippodamia convergens</i>
	<i>Stethorus punctum</i>
	<i>Diglyphus isaea</i>
	<i>Eretmocerus eremicus</i>
	<i>Cotesia marginiventris</i>

The use of these organisms in conjunction or alternation with **FLORAMITE SC/LS** is encouraged as a means of reducing the number of chemical applications.

#### PLANT TOLERANCE

Neither the manufacturer nor the seller has determined whether or not **FLORAMITE SC/LS** can be used safely on all ornamental plants. **FLORAMITE SC/LS** has been tested on a variety of ornamental plants with no phytotoxicity observed at label rates. However, all plant species and their varieties and cultivars have not been tested with possible tank-mix combinations, sequential pesticide treatments and adjuvants and surfactants. Therefore, prior to any large-scale application to ornamental plants, the user should determine the safety of **FLORAMITE SC/LS** by testing a small number of the plant cultivar to be treated at the specified label rates to ensure that phytotoxic response will not occur. The end user assumes all risks arising from using this product in a manner inconsistent with its labeling.



## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in a dry location.

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

**CONTAINER HANDLING: 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 mix-tank and drain container for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake container for 10 seconds. Pour rinsate into application equipment or a mix-tank or store rinsate for later use or disposal. Drain container for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

If pressure rinsing: Empty the remaining contents into application equipment or a mix-tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix-tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Once container is triple- or pressure-rinsed, recycle (if recycling is available). Some agricultural pesticide containers can be taken to a container collection site or picked up for recycling. To find the site nearest to you, contact your chemical dealer or manufacturer, or Ag Container Recycling Council (ACRC) at 877-952-2272 or <http://www.acrecycle.org>. If recycling is not available, dispose of container in a sanitary landfill or by incineration, if allowed by State and local ordinances.

**IMPORTANT NOTICE—**Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, expressed or implied, extends to the use of this product, contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and to the extent consistent with applicable law, the buyer assumes the risk of any such use.

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