Floramite® SC/LS

GROUP	un	ACARICIDE

ORNAMENTAL MITICIDE

Department of Agriculture
STATE OF HAWAII
LICENSED
PERIOD 2008-2010 LIC. NO.

Department of Agriculture
STATE OF HAWAII
LICENSED
PERIOD 2014-2016 LIC. NO.

Department of Agriculture
STATE OF HAWAII
LICENSED
PERIOD 2011-2013 LIC. NO. 9433.72

Active Ingredient: (% by weight)
Bifenazate: Hydrazine carboxylic acid, 2-(4-methoxy-[1,1-biphenyl]-3-yl) 1-methylethyl ester 22.6%
Other Ingredients: 77.4%
Contains 2 lbs. bifenazate per gallon.

Net contents:

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID

IF SWALLOWED
- **Call poison control center or doctor immediately for treatment advice.**
- **Have person sip a glass of water if able to swallow.**
- **Do not induce vomiting unless told to do so by the poison control center or doctor.**
- **Do not give anything by mouth to an unconscious person.**

HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also call the following telephone numbers for emergency medical treatement

EMERGENCY PHONE	**800-292-5898**
SAFETY DATA AND INFORMATION	**866-430-2775**
TRANSPORTATION EMERGENCY (CHEMTREC)	**800-424-9300**

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. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and Other Handlers Must Wear: Long-sleeved shirt and long pants; shoes plus socks. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, 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 immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds, estuarine/marine invertebrates, and fish. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems. This product is toxic to bees exposed to direct treatment. Do not apply this product while bees are actively visiting the treatment area.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

Chemtura

Manufactured for:
Chemtura Corporation
199 Benson Road
Middlebury, CT 06749

EPA REG. NO. 400-509
EPA EST. NO.
008/111708

www.chemtura.com

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, bulb crops, perennials, trees and shrubs.
- All non-bearing fruit trees which will not bear fruit for a minimum of 12 months.

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

- Landscapes
- Residences
- Public, commerical, industrial and institutional areas
- Recreational sites, such as campgrounds, golf courses, parks and athletic fields
- Rights of way and other easements

Do not use FLORAMITE SC/LS on ornamentals grown and / or maintained in interiorscapes or for commercial production, such as in greenhouses, shadehouses and nurseries.

When used as directed and applied to the foliage, FLORAMITE SC/LS provides quick 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. For optimum performance, 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 permitted only in those states where the tank mix partner is registered. When tank mixing, follow the label directions for the most restrictive of label precautions and limitations.

USE RATES AND APPLICATION INFORMATION

Mix 4 to 8 fluid ozs. 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 1-4 qts. of final solution per 100 sq.ft. (or 100 - 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 the low rate for preventative applications or where mite infestations are light. The higher rate 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	*Tetranychus urticae* (Koch)
Pacific mite	*Tetranychus pacificus* (McGregor)
Strawberry mite	*Tetranychus turkestani*
European red mite	*Panonychus ulmi* (Koch)
Citrus red mite	*Panonychus citri* (McGregor)
Clover mite	*Bryobia praetiosa* (Koch)
Southern red mite	*Oligonychus ilcis* (McGregor)
Spruce spider mite	*Oligonychus ununguis* (Jacobi)
Bamboo spider mite	*Schizotetranychus celarius (Banks)*
Lewis mite	*Eotetranychus lewisi*

Restrictions:

Do not apply more than 32 fluid ozs. per acre, per year.

Apply FLORAMITE SC/LS by ground equipment such as, but not limited to, 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 un 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
Phytoseiulus persimilis	*Chrysoperla carnea* *(common green lacewing)*
Neoseiulus spp.	*Aphidius colemani*
Typhlodromus spp.	*Aphidoletes aphidomyza*
Amblyseius spp.	*Orius insidiosus* *(insidious pirate bug)*
Zetzellia mali	*Coccinella septempunctata*
Iphiseius degenerans	*Hippodamia convergens*
	Stethorus punctum
	Diglyphus isaea
	Eretmocerus eremicus
	Cotesia marginiventris

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 recommended rates to ensure that phytotoxic response will not occur. The end user assumes all risks arising out of application 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 DISPOSAL: 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 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 triple rinsed, recycle if available. Some agricultural pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, 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 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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