

400-481

7/19/2010

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

R. Tim Weiland  
Chemtura Corporation  
199 Benson Rd  
Middlebury, CT 06749

JUL 19 2010

Dear Dr. Weiland:

Subject: Label Amendment to Update Floramite Label  
EPA Registration No. 400-481  
Submission Date: April 26, 2010

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records. Please submit one (1) final printed copy for the above mentioned label before releasing the product for shipment. If you have any questions regarding this label, please contact Jennifer Gaines at (703) 305-5967 or via e-mail, [gaines.jennifer@epa.gov](mailto:gaines.jennifer@epa.gov).

Sincerely yours,

A handwritten signature in black ink, appearing to read "John Hebert", written over a large, stylized circular flourish.

John Hebert  
Product Manager (07)  
Insecticide-Rodenticide Branch  
Registration Division (7505P)

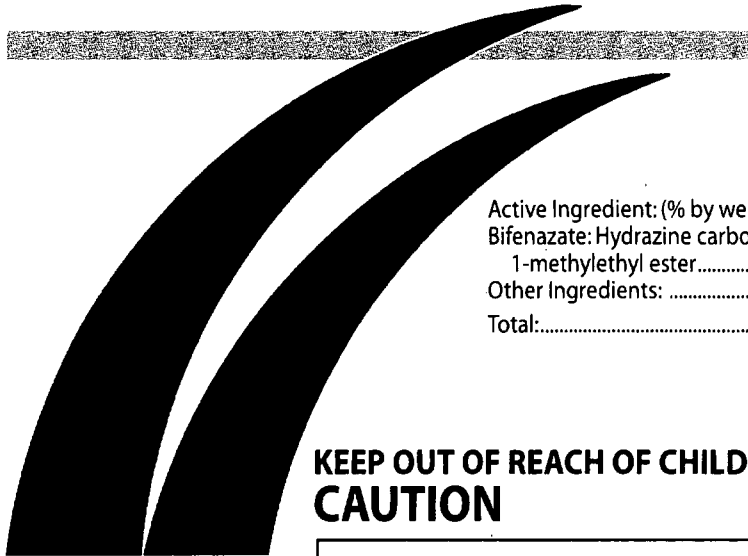
# Floramite®

ORNAMENTAL MITICIDE IN WATER SOLUBLE BAGS  
FOR COMMERCIAL USE ONLY

GROUP **un** ACARICIDE

2/4

**ACCEPTED**  
JUL 19 2010  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
Registered under  
EPA Reg. No. 400-481



Active Ingredient: (% by weight)  
Bifenazate: Hydrazine carboxylic acid, 2-(4-methoxy-[1,1-biphenyl]-3-yl)  
1-methylethyl ester..... 50%  
Other Ingredients: ..... 50%  
Total:..... 100%

## KEEP OUT OF REACH OF CHILDREN CAUTION

Net contents:

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 to 20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for further 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. You may also call the following telephone numbers for emergency medical treatment	
<b>CHEMTURA EMERGENCY PHONE</b>	<b>800-292-5898</b>
<b>SAFETY DATA AND INFORMATION</b>	<b>866-430-2775</b>
<b>TRANSPORTATION EMERGENCY (CHEMTREC)</b>	<b>800-424-9300</b>

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes moderate eye irritation. Wear protective eyewear. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

**Applicators and Other Handlers Must Wear:** Protective eyewear, 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. 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 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.



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

EPA REG. NO. 400-481  
EPA EST. NO.  
008

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.

**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 intervals. 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.

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 any waterproof material

**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 is a wettable powder in water soluble bags.

FLORAMITE 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.
- Greenhouse tomatoes

Except for applications to tomatoes, which is restricted to use in greenhouses only, FLORAMITE can be used in the following areas where these plants are grown and/or maintained in containers or in the ground:

- Greenhouses and shadehouses
- Nurseries, including Christmas tree/conifer plantations
- Landscapes
- Interiorscapes
- Residences
- Public, commercial, industrial and institutional areas
- Recreational sites, such as campgrounds, golf courses, parks and athletic fields
- Rights of way and other easements

When used as directed and applied to the foliage, FLORAMITE provides quick knockdown through contact activity, and long

residual control. Due to its carbazate chemistry, mode of action and selective nature, FLORAMITE is relatively inactive against beneficial/predacious mites and insects, and FLORAMITE therefore is compatible with IPM and resistance management programs.

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

**MIXING INSTRUCTIONS**

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

When tank mixing, thoroughly mix the water soluble bags before adding other products in the following order: other water soluble bags, wettable powders, dry flowables, liquid flowables, liquids and emulsifiable concentrates. Always allow each tank mix partner to disperse fully before adding the next product. Do not add products that release free chlorine or contain boron with water soluble bag formulations. Boron and free chlorine will inhibit the solubility of the water soluble bag material causing it to precipitate and form insoluble residue inside the spray tank.

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

**Compatibility:** To obtain broad spectrum insect control, FLORAMITE 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:** Do not remove the water soluble bags from the container except for immediate use. Use the entire contents of one water soluble bag; do not break open to use partial contents of a bag. Do not sell individual water soluble packets. Do not handle the inner bag with wet hands or wet gloves. Do not allow pouches to become wet prior to adding to the spray tank. 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 DIRECTIONS**

Mix 2 to 4 ozs. (2 to 4 water-soluble bags) FLORAMITE in 100 gals. of water and apply as a full coverage spray to the foliage using a minimum 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. Make application as soon as mites appear as FLORAMITE will provide residual control for up to 28 days. Use the low rate for preventative applications where mite infestations are light. The higher rate may be required for heavy infestations or for extended residual control. For optimum coverage of ornamentals with hard to wet foliage, an adjuvant can be added to the Floramite/water solution. Those found to be effective are Silwet® L-77 or Sylgard® 309 at 4 oz. per 100 gallons of water. **Do not use adjuvants in solutions applied to greenhouse tomatoes.**

When used as directed, FLORAMITE is effective for the control of a variety of mites species, especially spider mites, red mites and grass mites. NOTE: It is not effective against rust mites, broad mites and flat mites. FLORAMITE 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 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>

**USE RESTRICTIONS:**

For greenhouse tomatoes, do not apply within 3 days of harvest. Do not make more than two (2) applications of FLORAMITE per crop per year.

Do not apply more than 16 ozs. of FLORAMITE per acre, per year. Apply FLORAMITE by ground equipment such as compressed air sprayers, hydraulic sprayers, ground boom sprayers, air blast sprayers and hose end sprayers. Do not apply by aerial application.

**STRATEGIES FOR RESISTANCE MANAGEMENT**

FLORAMITE when used as directed, combines high activity on mites with selectivity to beneficial / predacious mites and insects. In addition, the carbazate chemistry of FLORAMITE 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 has demonstrated no cross resistance with other commercial miticides. FLORAMITE contains an active ingredient classified as a Group un acaricide. FLORAMITE is suitable to be used as a rotational partner with other miticides.

To reduce selection pressure which can lead to the development of resistance, use FLORAMITE in moderation. To help achieve this follow the mite control strategies below:

- Incorporate IPM techniques into your insect control program.
- Ensure thorough spray coverage to all foliage.
- Scout regularly and apply FLORAMITE as soon as infestations are observed. Do not wait until large populations have established.
- Always apply FLORAMITE at the specified rates and according to label requirements.
- Apply only one application of FLORAMITE before rotating to products of an alternative chemical class.
- Use at least two alternative products between treatments of FLORAMITE.
- Use FLORAMITE in conjunction with biological control organisms available for mite control. FLORAMITE 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 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 can be used safely on all ornamental plants. FLORAMITE 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, determine the safety of FLORAMITE by testing a small number of the plant cultivar to be treated at the required 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 must be disposed of on site or at an approved waste disposal facility.

**CONTAINER HANDLING: Non-refillable container. Do not reuse or refill this container.** Empty residue into application equipment then offer foil bag for recycling if available or 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, express 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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