

400-481

2/5/2001

1/5



**U. S. ENVIRONMENTAL PROTECTION AGENCY**  
WASHINGTON, D.C. 20460-0001

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

February 5, 2001

Fred Hageman  
Crop Protection R & D  
Uniroyal Chemical Co. Inc.  
74 Amity Road  
Bethany, CT 06524-3402

Subject: EPA Reg. No. 400-481; Floramite™  
Amendment to Label and Confidential Statement of Formula  
Letter dated January 25, 2001

Dear Mr. Hageman:

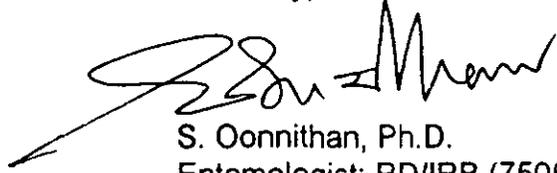
The Agency has reviewed your application to amend the Floramite label and Confidential Statement of Formula (CSF). They are acceptable provided that you make the following changes:

1. Move "Do not apply this product .... irrigation system" from Directions for Use on page 2 to Use Rates and Recommendations. See Item # 5.
2. Replace "product" with "produce" before ... agricultural plants on farms ... in the Non-Agricultural Use Requirements box on page 2.
3. Delete ... "and non-bearing fruit trees" ... from the General Information section on page 2.
4. Replace "(112°F)" on page 2 (top of second column) with "(122°F)."
5. Add "Apply Floramite by ground equipment such as, but not limited to, compressed air, hydraulic, ground boom and air blast sprayers. Do not apply by aerial application. Do not apply this product through any type of irrigation system" as a separate paragraph under Use Rates and Recommendations on page 2.
6. Add "Do not apply more than 16 oz. of Floramite per acre per year" under Restrictions section on page 2 (bottom of second column) just before the last sentence.

7. The CSF for basic formulation dated 1/15/01 is acceptable.

A stamped copy of the draft label is enclosed for your records. Submit two (2) copies of final printed labeling before you release the product for shipment. Should you have any questions, do not hesitate to contact me at 703-605-0368.

Sincerely,

A handwritten signature in black ink, appearing to read "S. Oonnithan". The signature is stylized and cursive, with a long horizontal stroke extending to the left.

S. Oonnithan, Ph.D.  
Entomologist; RD/IRB (7505C)  
Office of Pesticide Programs

Encl.

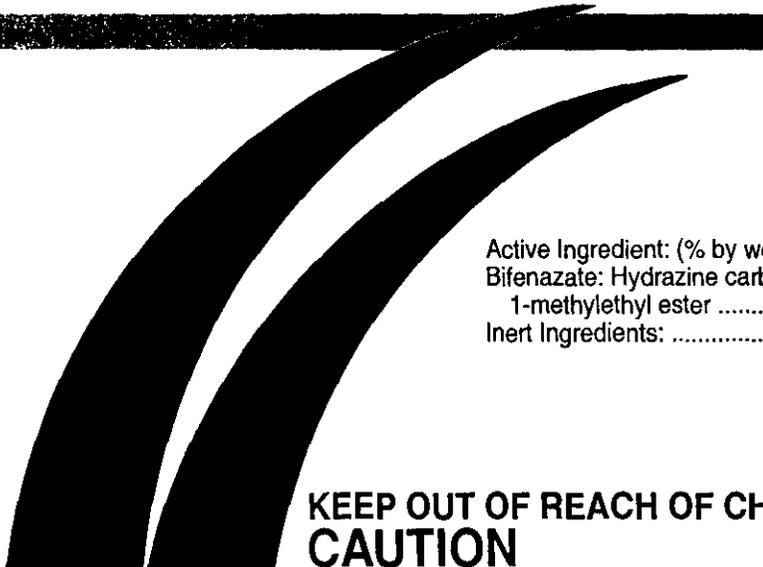
# Floramite™

ORNAMENTAL MITICIDE IN WATER SOLUBLE BAGS

3/5

ACCEPTED  
with COMMENTS  
In EPA Letter Dated:  
FEB - 5 2001

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, this pesticide has been  
registered under FIFRA section 24(c).  
400-481



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

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

Net contents:  
**1 pound**  
(16x1 oz. water  
soluble bags)

<b>FIRST AID</b>	
<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 lens, 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>
<b>HOT LINE NUMBER</b>	
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>UNIROYAL CHEMICAL EMERGENCY PHONE</b>	<b>203-723-3670</b>
<b>SAFETY DATA AND INFORMATION</b>	<b>203-573-3303</b>
<b>TRANSPORTATION EMERGENCY (CHEMTREC)</b>	<b>800-424-9300</b>

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

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

<b>USER SAFETY RECOMMENDATIONS</b>	
Users should:	
<ul style="list-style-type: none"> <li>• Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.</li> <li>• Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.</li> </ul>	

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to 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. This product is toxic to bees exposed to direct treatment but residues on treated foliage are not toxic to bees. 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.



Uniroyal Chemical  
Company, Inc.  
Middlebury, CT 06749

EPA REG. NO. 400-481  
EPA EST. NO. 33967-NJ-1  
003

## 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 4 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

### 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 protect agricultural plants on farms, forests, nurseries or greenhouses.

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

### GENERAL 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 all types of ornamental plants, and non-bearing fruit trees, including bedding plants, flowering plants, foliage plants, bulb crops, perennial plants and woody plants. FLORAMITE can be used in all areas where these plants are grown and/or maintained in containers or in the ground, including:

- 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 unique chemistry, mode of action and selective nature, FLORAMITE is relatively inactive against beneficial / predatory mites and insects, and therefore is compatible with IPM and resistance management programs.

### 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.

415  
FLORAMITE has been shown to degrade rapidly when mixed and stored with alkaline water of high temperature (112°F). To prevent degradation under alkaline conditions, solutions of FLORAMITE must be used promptly. Alternatively, a commercially available buffering adjuvant can be added to the solution to reduce the pH to a neutral / acidic range.

**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.

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 boron containing or free chlorine releasable products 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.

**Restrictions:** 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 RECOMMENDATIONS

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 1-2 qts. of final solution per 100 sq.ft. (or 100 - 200 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 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, it is recommended that an adjuvant be added to the Floramite/water solution. Those found to be both safe and effective are Silwet L-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 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)

**Restrictions:** Do not use FLORAMITE in successive applications. 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. Do not make more than two (2) applications of FLORAMITE per crop per year.

## 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 unique 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.

To reduce selection pressure which can lead to the development of resistance, FLORAMITE 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 as soon as infestations are observed. Do not wait until large populations have established.
- Always apply FLORAMITE at the recommended rates and according to label recommendations.
- 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>Noseiulus 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>Iphiseius degenerans</i>
	<i>Coccinella septempunctata</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, the user should determine the safety of FLORAMITE 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

5/5

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

**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:** Place water soluble bag directly into application equipment (see directions). Then dispose of empty outer bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**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 buyer assumes the risk of any such use.

™FLORAMITE is a Trademark of Uniroyal Chemical Company, Inc.  
©Copyright 2001, Uniroyal Chemical Company, Inc.