

432-1279

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



OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

3/28/06

Norma Pangilinan  
Bayer Environmental Science  
2 TW Alexander Drive  
Research Triangle Park, NC 27709

re: Forbid 4F Ornamental Insecticide/Miticide, EPA Reg. # 432-1279  
label amendments submitted 9/20/05, revised 12/1/05  
accepted (9/20/05 version including interior plantscapes)

Dear Ms. Pangilinan:

The labeling referred to above (9/20/05 version including interior plantscapes), submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is ACCEPTED provided that you submit two (2) copies of your final printed labeling prior to releasing your product for shipment.

This amendment clarifies the application directions following up on questions from the Florida Dept. of Agriculture and Consumer Services. The 9/20/05 submission also included the addition of interior plantscapes. Since this additional use would required input from the Health Effects Division (HED) I had asked you to submit a version of the label without the interior plantscapes (which you did on 12/1/05). However, HED was able to quickly review the additional use and determine that it does not exceed EPA's levels of concern. Therefore, the 9/20/05 version of the label is acceptable. Enclosed please find a copy of the following review:

Dow, Mark. 1/10/06. Spiromesifen - Proposed Use on Interior Plantscapes

If the above provisions are not complied with the registration will be subject to cancellation in accordance with FIFRA Section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A copy of your label stamped "accepted" is enclosed for your records.

Please contact me if you have any questions.

Sincerely yours,

/s/

Thomas C. Harris  
Biologist  
Insecticide Rodenticide Branch  
Registration Division (7505C)  
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(703) 308-9423

enclosures (2)

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# Forbid™ 4 F

## Ornamental Insecticide/Miticide

For professional use only. For control of mites and whiteflies on ornamental plants in and around areas such as parks, golf courses, recreational areas, and residential or commercial buildings.

### ACTIVE INGREDIENT:

Spiromesifen: 2-oxo-3-(2,4,6-trimethylphenyl)-1-oxaspiro[4.4]non-3-en-4-yl  
3,3-dimethylbutanoate..... 45.2%  
OTHER INGREDIENTS: .....54.8%  
100%

Forbid 4F contains 4 pounds of spiromesifen per US gallon (480 grams ai per liter).  
EPA Reg. No. 432-1279

Net Contents: \_\_\_\_\_ Gals

**STOP - Read the label before use.**  
**Keep out of reach of children.**

## CAUTION

**For MEDICAL And TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1-800-334-7577**  
**For PRODUCT USE Information Call 1-800-334-9745**

FIRST AID	
<b>If inhaled</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>If swallowed</b>	<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 to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>Note To Physician</b>	No specific antidote is known. Treat symptomatically.

Have a product container or label with you when calling a poison control center or doctor, or going for treatment.

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

### Personal Protective Equipment (PPE):

**Mixers, loaders and other handlers must wear:**

- Long-sleeved shirt and long pants
- chemical resistant gloves (such as natural rubber, selection category A)
- Shoes plus socks

ACCEPTED  
MAR 28 2006

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

432-1279

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**Applicators must wear:**

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

Follow manufacturer's instructions for cleaning/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.
- Remove Personal Protective Equipment immediately after handling this product.
- Wash the outside of gloves before removing.
- As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and aquatic invertebrates. Avoid contamination of surface water through runoff or spray drift. 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 cleaning equipment or disposing of equipment washwater.

**SURFACE WATER ADVISORY**

This product may contaminate water through runoff or through drift of spray in wind. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Not for use on plants being grown for sale or commercial production, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification in areas such as landscapes, interior plantscapes, camp grounds, golf courses, athletic fields, parks, gardens, rights of way and other easements, and around residential, institutional, public, commercial, and industrial buildings.

**IMPORTANT:** Read entire label and Conditions of Sale before using this product.

**GENERAL INFORMATION**

FORBID 4F is a Flowable (Suspension Concentrate) formulation that is intended for control of mites and whiteflies on ornamental plants, flowers and foliage plants. The active ingredient contained in FORBID 4F is active on all mite development stages. However, mite juvenile stages are often more susceptible than adults. Application should be timed to coincide with early threshold levels in a developing mite population.

FORBID 4F is also highly effective against whitefly nymphs, plus it has a significant effect on the otherwise difficult to control pupal stage. For best results against whitefly, applications should target these life stages.

FORBID 4F can be applied by ground equipment. Thorough coverage of all plant parts is required for optimum performance. Performance evaluations should be made 4 – 10 days after application.

Apply specific dosage of FORBID 4F as needed for control. For best results, uniform coverage of the upper and lower leaf surfaces is recommended. Avoid excess application that results in runoff from plant foliage. An adjuvant may be used to improve coverage on hard to wet foliage. For best results the treatment should be made when whitefly or mite population begins to build and before a damaging population becomes established. Rate range is provided and is generally dependent on size of the plant and density of the foliage.

**PRODUCT FEATURES**

**Controls all stages of whiteflies.**

**Provides knockdown and residual control of all developmental stages of mites**

PESTS CONTROLLED	USE RATE
<p>Spider mites (including twospotted spider mite, southern red mite, maple spider mite, spruce spider mite, honeylocust spider mite, Euonymus mite, boxwood spider mite, tumid mite and Lewis mite)</p> <p>False spider mites</p> <p>Rust and blister mites (family Eriophyidae)</p> <p>Tarsonemid mites (including broad mites and cyclamen mite)</p>	<p>2 to 4 fl. oz. (60-120 mL)/100 gallons of spray solution</p> <p>or</p> <p>3-6 mL/5 gallons of spray solution</p>
<p>Whiteflies (Including silverleaf, greenhouse, and sweetpotato whitefly)</p>	

<b>WHERE TO APPLY</b>	To shrubs, trees (including non-bearing fruit and nut trees), flowers and foliage plants in outdoor landscapes and interior plantscapes.
<b>HOW TO APPLY</b>	<p>Apply specific dosage of FORBID 4F as needed for control. Good coverage of the foliage is recommended.</p> <p>An adjuvant may be used to improve coverage on hard to wet foliage. For best results the treatment should be made when the whitefly or mite population begins to build and before a damaging population becomes established.</p> <p>FORBID 4F is highly effective against the egg and nymphal stages of whiteflies and mites. For best results, applications should target these stages.</p> <p>For maximum efficacy against adult whiteflies, use the 4 fl oz rate of FORBID 4F. For heavy infestations, two applications may be necessary to control adult whiteflies.</p> <p>Rate range is provided and is generally dependent on size of the plant and density of the foliage. Apply when pests first appear and prior to leaf damage or discoloration. Apply with ground application equipment in adequate water for uniform coverage.</p> <p>Do not apply via chemigation.</p> <p>Do not apply FORBID 4F more than three times per season.</p>
<b>RESISTANCE MANAGEMENT</b>	<p>FORBID 4F contains an active ingredient with a novel mode of action. Studies to determine cross-resistance with FORBID 4F linked to other commercial insecticide/miticides have demonstrated no cross-resistance. However, repeated use of any plant protection product may increase the development of resistant strains of pests, including insects and mites. Using FORBID 4F in successive miticide applications during the same growing season is not recommended. Use FORBID 4F as a part of a sound resistance management program that includes rotation with other treatments with different modes of action.</p>
<b>PLANT TOLERANCE</b>	<ul style="list-style-type: none"> <li>FORBID 4F has been evaluated for phytotoxicity on a wide range of ornamental plants. However, due to the large number of species and varieties of ornamental plants, it is impossible to test every one for tolerance to FORBID 4F. The professional user should determine if FORBID 4F could be used safely prior to commercial use. In a small area, test the recommended rates on a small number of plants for phytotoxicity prior to widespread use. Before using FORBID 4F in tank mixture with other products and adjuvants, test the mixture on a small number of plants for phytotoxicity prior to widespread use.</li> <li>Phytotoxicity has been observed following application of FORBID 4F on Ferns, English ivy (<i>Hedera helix</i>), Lily-of-the-Incas (<i>Alstromeria</i>), Geraniums (<i>Pelargonium spp.</i>) and <i>Impatiens spp.</i> It is therefore recommended that FORBID 4F not be used on Ferns, English ivy, Lily-of-the-Incas, Geraniums or <i>Impatiens</i>.</li> </ul>
<b>IRRIGATION TIMING</b>	<ul style="list-style-type: none"> <li>If irrigation is used, conduct irrigations efficiently to prevent excessive loss of irrigation waters through runoff. Time applications to allow sprays to dry prior to rain or sprinkle irrigations.</li> </ul>
<b>SPRAY DRIFT</b>	<ul style="list-style-type: none"> <li>Avoid drift or runoff into lakes, reservoirs, rivers, permanent streams, marshes, potholes, vernal pools, natural ponds, estuaries, or commercial fish farm ponds. Do not apply when winds are greater than 15 mph and avoid gusty conditions.</li> </ul>
<b>ENDANGERED SPECIES ADVISORY</b>	<ul style="list-style-type: none"> <li>The use of any pesticide in a manner that may kill or otherwise harm endangered species or adversely modify their habitat is a violation of Federal law.</li> </ul>
<b>RESTRICTIONS</b>	<ul style="list-style-type: none"> <li>Do not use on vegetable gardens.</li> <li>Do not use on plants intended for use as feed or forage.</li> <li>Not for use in commercial greenhouses or nurseries, or on fruit or nut trees.</li> </ul>
<b>PACKAGE HANDLING</b>	<ul style="list-style-type: none"> <li>FORBID 4F is packaged in polyethylene containers. Do not allow product or containers to freeze.</li> </ul>

**COMPATIBILITY / MIXING / ORDER-OF-MIXING**

- FORBID 4F is physically and biologically compatible with many registered pesticides and fertilizers or micronutrients. When considering mixing FORBID 4F with other pesticides or other additives, first contact your supplier for advice. For further information, contact your local Bayer representative. If your supplier and Bayer representative have no experience with the combination you are considering, you should conduct a test to determine physical compatibility. To determine physical compatibility, add the recommended proportions of each chemical with the same proportion of water as will be present in the chemical supply tank, into a suitable container, mix thoroughly and allow to stand for five minutes. If the combination remains mixed, or can be readily re-mixed, the mixture is considered physically compatible.
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- FORBID 4F may be used with other recommended pesticides, fertilizers and micronutrients. The proper mixing procedure for FORBID 4F alone or in tank mix combinations with other pesticides is:
  - Fill the spray tank 1/4 to 1/3 full with clean water;
  - While recirculating and with the agitator running, add any products in PVA bags (See Note). Allow time for thorough mixing;
  - Continue to fill spray tank with water until 1/2 full;
  - Add any other wettable powder (WP) or wettable granules (WG) products;
  - Add the required amount of FORBID 4F, and any other "flowable" (FL or SC) type products;
  - Allow enough time for thorough mixing of each product added to tank;
  - If applicable, add any remaining tank mix components: emulsifiable concentrates (EC), fertilizers and micronutrients.
  - Fill spray tank to desired level and maintain constant agitation to ensure uniformity of spray mixture.
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- Mix pesticides in areas not prone to runoff such as concrete mixing/loading pads, disked soil in flat terrain or graveled mix pads, or use a suitable method to contain spills and/or rinsate. Properly empty and triple-rinse pesticide containers at time of use.

**STORAGE AND DISPOSAL**

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

**STORAGE:**

- Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed.
- Store in original container and out of the reach of children, preferably in a locked storage area.
- Handle and open container in a manner as to prevent spillage.

**PESTICIDE DISPOSAL:**

- Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law.
- If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:**

- Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities, by burning. If burned, stay out of smoke.

**QUESTIONS**

- For questions or comments, call toll-free 1-800-842-8020
- [www.bayerprocentral.com](http://www.bayerprocentral.com)

**IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and should be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer Environmental Science. All such risks shall be assumed by the user or buyer.

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