

70506-22

11/20/2003



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505C)  
1200 Pennsylvania Ave. N.W.  
Washington, D.C. 20004

EPA Reg. Number:  
70506-22

Date of Issuance  
NOV 20 2003

Term of Issuance: Conditional

**NOTICE OF PESTICIDE:**

Registration  
 Reregistration

(under FIFRA, as amended)

Name of Pesticide Product:

Bifenthrin SC Lawn and  
Greenhouse Insecticide

Name and Address of Registrant (include ZIP Code):

United Phosphorus, Inc.  
423 Riverview Plaza  
Trenton, NJ 08611

**Note:** Changes in labeling affecting in substance the pesticide registration with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any case, the pesticide always bears the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A), subject to the following provisions:

1. You must submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of you product under FIFRA section 4.
2. You must make the following label changes:
  - a. Revise the first sentence of the second-to-last paragraph of the Warranty and Liability statements on page 8 to read "To the extent allowed by law, United Phosphorus, Inc. or seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product." As currently written ("In no event shall United Phosphorus, Inc. or seller be liable ...") the statement negates and/or detracts from labeling requirements as set forth by the Agency in 40 CFR Part 156, and is, therefore, considered misbranding.

Signature of Approving Official:

*Susan L. Stanton, for George T. LaRocca*

Date:

NOV 20 2003

- b. Revise the dilution table at the top of page 6 as on the recently corrected label for Talstar Flowable Insecticide/Miticide (EPA Reg. No. 279-3105). Only the areas in **bold type** need to be changed:

	Fluid Ounces of Bifenthrin SC Diluted to these Volumes (in Gallons) of Finished Spray				
Rate Bifenthrin SC in oz. (lb. a.i.)/10 gals.	1 gal.	3 gal.	5 gal.	25 gal.	100 gal.
0.8 (0.004)	--	1/4	1/2	2	8
1.2 (0.006)	1/8	1/3	2/3	3	12
2.0 (0.010)	1/4	2/3	1	5	20
4.0 (0.020)	1/2	1 1/3	2	10	40

- 3. You must submit the results of the 1-year storage stability (Guideline 830.6317) and corrosion characteristics (Guideline 830.6320) tests that are in progress once these tests are completed.
- 4. You must submit two (2) copies of your final printed label before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

If these conditions 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 amended labeling constitutes acceptance of these conditions.

3/11

Page 3  
EPA Reg. No. 70506-22

A stamped copy of the label is enclosed for your records. If you have any questions regarding this action, please contact Susan Stanton of my team at (703) 305-5218.

Sincerely,

George T. LaRocca  
Product Manager (13)  
Insecticide Branch  
Registration Division (7505C)

Enclosures

4/11

# BIFENTHRIN SC LAWN AND GREENHOUSE INSECTICIDE

## For Agricultural and Commercial Use Only

**ACCEPTED  
with COMMENTS  
In EPA Letter Dated:**

**NOV 20 2003**

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

**70506-22**

<b>Active Ingredient:</b>	<b>By Wt.</b>
<b>Bifenthrin*</b> .....	7.9%
<b>Inert Ingredients:</b> .....	92.1%
<b>TOTAL</b> .....	100.0%

Bifenthrin SC Termiticide/Insecticide contains 2/3 pound active ingredient per gallon.

\*Cis isomers 97% minimum, trans isomers 3% maximum

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

<b>FIRST AID</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment	
If swallowed	<ul style="list-style-type: none"> <li>• Call 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 the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
If inhaled	<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, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
If on skin or clothing	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
If in eyes	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 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 treatment advice.</li> </ul>
<b>NOTE TO PHYSICIAN</b>	
This product is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.	

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident,  
call CHEMTREC 1-800-424-9300.**

Manufactured for:  
United Phosphorus, Inc.  
425 Riverview Plaza • Trenton, NJ 08611  
1-609-392-8200 • www.upi-usa.com

**EPA Reg. No. 70506-22  
EPA Est. No.**

**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 before reuse.

**Personal Protective Equipment:**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistance category selection chart.

**Applicators and other handlers (other than mixers and loaders) must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate, butyl rubber, Nitrile rubber, neoprene rubber, polyvinyl chloride or Viton.
- Shoes plus socks

**Mixers and Loaders must wear:**

- Long-sleeved shirt and long pants
- Chemical-resistant gloves such as barrier laminate, butyl rubber, Nitrile rubber, neoprene rubber, polyvinyl chloride or Viton.
- Shoes plus socks
- Protective eyewear

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.

<p><b>USER SAFETY RECOMMENDATIONS</b></p> <p>Users should:</p> <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> <li>• Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.</li> </ul>
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**ENVIRONMENTAL HAZARDS**

This pesticide is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters. Care should be used when spraying to avoid fish and reptile pets in/around ornamental ponds.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow to drift to blooming crops if bees are visiting the treatment area.

**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 in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during applications. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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

6/11

### 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), and restricted-entry interval. 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 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.
- Chemical-resistant gloves, such as Barrier Laminate or Butyl Rubber or Nitrile Rubber or Neoprene Rubber or polyvinyl chloride or Viton.
- 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 produce agricultural plants on farms, forests, nurseries and greenhouses.

Do not allow people or pets on treated surfaces until the spray has dried.

### STORAGE AND DISPOSAL

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

**Pesticide Storage:** Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use replace lids and close tightly. Do not put concentrate or dilute material into food or drink container.

**In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills.**

**To Confine Spill:** If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

**Pesticide Disposal:** Pesticide wastes are toxic. Do not contaminate water, food or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Disposal:** Plastic Container: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

## APPLICATION RECOMMENDATIONS

**Landscape Ornamentals, Greenhouses and Home Lawn Uses (including interiorscapes, plantscapes and Ornamental Plantings Grown for Aesthetic Purposes)**

Bifenthrin SC Lawn and Greenhouse Insecticide/Miticide mixes readily with water and other aqueous carriers, and may be applied using all types of spray equipment. Bifenthrin SC may be tank-mixed with other products, including insect growth regulators to control a wide spectrum of insects and mites on trees, shrubs, foliage plants, non-bearing fruit and nut trees, and flowers in greenhouses and interiorscapes including hotels, shopping malls, office buildings, etc., and outdoor plantscapes such as around residential dwellings, parks, institutional, public, commercial and industrial buildings; recreational areas, athletic fields and home lawns.

When tank mixing Bifenthrin SC with other products, observe all precautions and limitations on each separate product label. The addition of spreader stickers is not necessary.

### RECOMMENDED APPLICATION RATES FOR LANDSCAPE ORNAMENTALS AND GREENHOUSES

Application Rate of Bifenthrin SC Lawn and Greenhouse Insecticide/Miticide			
Pest	Rate lb. ai/10 gal.	Rate oz./10 gal.	Comments
Ants	0.004 to 0.02	0.80 to 4.0	<p>Apply the specified application rate as a full coverage foliar spray. Repeat as necessary to achieve control using higher rates as pest pressure and foliage area increases but not more often than every 7 days.</p> <p>To control Bagworm: Apply when larvae begin to hatch. Spray larvae directly. Applications made when larvae are young will be most effective.</p> <p>To control scale crawlers and twig borers: Treat trunks, stems and twigs in addition to plant foliage.</p> <p>Certain cultivars may be sensitive to the final spray solution. A small number of plants should be treated and observed for one week prior to application to the entire planting.</p> <p>Use of an alternate class of chemistry in a treatment program is recommended to prevent or delay pest resistance.</p>
Aphids			
Bagworms			
Blackvine Weevil			
Brown Soft Scales			
Broad Mites			
Budworms			
California Red Scale (Crawlers)			
Centipedes			
Clover Mites			
Crickets			
Cutworms			
Earwigs			
Elm Leaf Beetles			
Fall Webworms			
Flea Beetles			
Fungus Gnats			
Grasshoppers			
Lace Bugs			
Leafhoppers			
Leaf Feeding Caterpillars			
Mealybugs			
Millipedes			
Orchid Weevil			
Pillbugs			
Fine Needle Scales (Crawlers)			
Plant Bugs (including Lygus spp.)			
San Jose Scales (Crawlers)			
Sowbugs			
Spiders			
Tent Caterpillars			
Tip Moths			
Weevils			
Whiteflies			

8/11

Application Rate of Bifenthrin SC Lawn and Greenhouse Insecticide/Miticide			
Pest	Rate lb. ai/10 gal.	Rate oz./10 gal.	Comments
Beet Armyworm Citrus Thrips European Red Mite Leafrollers Spider Mites Thrips Twig Borers	0.006 to 0.02	1.2 to 4.0	
Japanese Beetle (Adults) Leafminers Pecan Leaf Scorch Mite	0.01 to 0.02	2.0 to 4.0	



9/11

Rate Bifenthrin SC in oz. (lb a.i.)/ 10 gals.	Fluid Ounces of Bifenthrin SC Diluted to these Volumes (in Gallons) of Finished Spray				
	1 gal.	3 gal	5 gal.	25 gal.	100 gal
0.8 (0.004)	--	1/3	1/2	2	8
1.2 (0.006)	1/8	1/2	2/3	3	12
2.0 (0.010)	1/5	3/4	1	5	20

**APPLICATION TO HOME LAWNS**

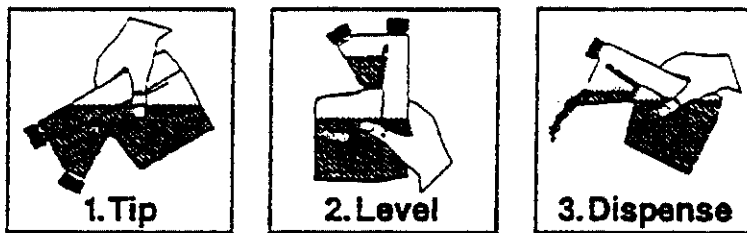
Apply Bifenthrin SC Lawn and Greenhouse Insecticide/Miucide as a broadcast treatment in 2 to 10 gallons of carrier per 1000 sq. ft. Use higher volumes to get uniform coverage when treating dense grass foliage.

**RECOMMENDED LAWN APPLICATION RATES**

Pests	Bifenthrin SC	Comments
Ants Armyworms Bluegrass billbugs Chinch Bugs Crane flies Crickets (Mole)* Cutworms Earwigs Fall Webworms Fleas Grasshoppers Mites Sod Webworm Ticks	0.23 to 0.46 oz per 1000 sq. ft.  -or-  10 to 20 oz. per Acre  -or-  0.05 to 0.1 lbs. ai/A	*For control of overwintered Mole Crickets, apply the lower rate in early Spring. For the control of adult Mole Crickets, apply the higher rate in late-Summer or early Fall.  To enhance control, a non-ionic surfactant or a silicon based surfactant (0.25% w/v) may be applied as a tank-mix for the control of late Summer or Fall Adult Mole Crickets. For best results, irrigate immediately after application with a minimum of 0.25 inches of water.
Imported Fire Ants Japanese Beetle (Adult)	0.46 to 0.92 oz. per 1000 sq. ft.  -or-  20 to 40 oz. per Acre	

**DEALERS SHOULD SELL IN ORIGINAL PACKAGES ONLY.**

[For the 1 qt Tip N Pour package]  
**CONTAINER USE DIRECTIONS:**



1. Remove the measuring chamber cap and induction seal. Replace cap and securely tighten. Tip container until liquid fills measuring chamber.
2. Return container to level position. No adjustment is needed.
3. Remove measuring chamber cap and dispense into proper application equipment.

For multiple dose measuring: remove fill chamber cap and dispense according to markings on side of bottle.

11/11

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**IMPORTANT INFORMATION  
READ BEFORE USING PRODUCT**

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**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of United Phosphorous, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold United Phosphorous Inc. and Seller harmless for any claims relating to such factors.

United Phosphorous, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or United Phosphorous, Inc., and Buyer and User assume the risk of any such use. **UNITED PHOSPHOROUS, INC. MAKES NEITHER WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

In no event shall United Phosphorous, Inc. or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF UNITED PHOSPHOROUS, INC. AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE, AT THE ELECTION OF UNITED PHOSPHOROUS, INC. OR SELLER, THE REPLACEMENT OF THE PRODUCT, OR COMPENSATION LIMITED TO DAMAGES NOT EXCEEDING THE FAIR MARKET PURCHASE PRICE, AND SHALL NOT INCLUDE INCIDENTAL OR CONSEQUENTIAL DAMAGES.**

United Phosphorous, Inc. and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by the duly authorized representative of United Phosphorous, Inc.

NOT EPA APPROVED 3/10/03, revised 10/7/2003