

53883-228

11/23/2009

1/17



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

November 23, 2009

Don O'Shaughnessy  
Control Solutions, Inc  
5903 Genoa - Red Bluff  
Pasadena, TX 77507

Subject: Amendment - Response to Agency's December 11, 2008 letter  
Bifenthrin 0.3% Concentrate  
EPA Reg. No. 53883-228  
Your submission dated May 11, 2009

Dear Dr. O'Shaughnessy:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable subject to the comments listed below. Two (2) copies of the finished labeling must be submitted prior to releasing the product for shipment. A stamped copy of the label is enclosed for your records.

1. Replace "Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco" with "Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet" in the Precautionary Statement.
2. Re-instate "Kills" through out the label where you have substituted "Controls". No data was cited/submitted to support the "Controls" claim.
3. Delete the claim "Broad-spectrum insect control". This claim implies a greater range of effectiveness than labeled. The claims must be limited to those pests listed on the label.
4. On page 2 under FOR OUTDOOR USE replace "... pyrethroid insecticide that quickly controls insect/pests ... etc" with "... pyrethroid insecticide that controls insect/pests ... etc".

2/17

If you have any questions regarding this action, please contact BeWanda Alexander at [Alexander.bewanda@epa.gov](mailto:Alexander.bewanda@epa.gov) or (703) 305-7460.

Sincerely,  


Richard Gebken  
Interim Product Manager 13  
Insecticide Branch  
Registration Division (7505P)

[BRACKETED TEXT [] OPTIONAL]

ACCEPTED  
with COMMENTS  
In EPA Letter Dated  
NOV 23 2009

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

53883-228

# Bifen 0.3% Concentrate

## Indoor & Outdoor Insecticide

- [Ready to Spray (if sold in Ready to Spray packaging)]
- Kills on Contact
- Fast knockdown
- Repels and Kills Insects
- Controls Mosquitoes[ that May Transmit West Nile Virus], Deer Ticks and other listed pests
- Controls Ticks that May Transmit Lyme Disease
- Broad-spectrum insect control
- Controls fleas, ticks, mosquitoes, ants, aphids, mites, caterpillars, beetles, sod webworms, chinch bugs, and mole crickets]
- Kills on Contact, and continues controlling for up to 6 weeks]

### [Outdoor use marketing statements

- For use outdoors to control aphids, mites, caterpillars, beetles, whiteflies, sod webworms, chinch bugs, mole crickets, ants, fleas, and ticks, mosquitoes
- Outdoor pest control lasts for up to 6 weeks
- Covers up to 2667 sq. ft.]

### [Indoor marketing statements

- For use indoors to control Ants, Fleas, Flies (including Houseflies), Mosquitoes, Moths, Roaches, Earwigs, Silverfish Spiders, Ticks, and other listed insects
- Controls Insects, Spiders and [&] Ticks
- Does Not Stain
- Four [4] month control [of] [Roaches][Insects][Ants] indoors]

### For residential use only.

#### Active Ingredient:

Bifenthrin\*.....0.3%  
Other Ingredients:.....99.7%

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

KEEP OUT OF REACH OF CHILDREN

### CAUTION

See back panel booklet for additional precautionary statements.

Net Contents: 32 FL OZ (1 QT) 946 mL

[OPEN

*Resealable Label for Directions & Precautions*

*PRESS TO RESEAL (Placed on base of label.)]*

## **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Food utensils such as spoons and measuring cups must not be used for food purposes after use with pesticides.

Do not allow children and pets into the treated area until spray has dried.

1 Tablespoon (Tbs)=3 teaspoons (tsp) 1 fl oz = 2 Tbs 4 fl oz = 1/2 cup

## **FOR OUTDOOR USE**

### **GENERAL INFORMATION**

**Bifen 0.3% CONCENTRATE** is a pyrethroid insecticide that quickly controls insect/pests that damage roses, flowers, shrubs, fruit trees, vegetable gardens and lawns. Bifen 0.3% CONCENTRATE can also be used to keep insect/pests out of the home when sprayed around foundations. Bifen 0.3% CONCENTRATE controls insect/pests such as Ants (including carpenter ant, and argentine ant), Aphids, Caterpillars, Chinch bugs, Fleas, Mole crickets, Mosquitoes, Ticks, Whiteflies and other listed lawn & garden insects/pests.

### **FOR USE ON:**

- Lawns
- Trees, roses, shrubs, flowers, and other ornamentals
- Listed fruit trees and garden vegetables
- Around house foundations, porches, patios, stored lumber
- In and around outdoor residential pet areas such as dog houses and fenced dog runs

### **SHAKE WELL BEFORE USING**

[optional text for Ready-to-Spray container starts here]

### **LAWNS**

**Bifen 0.3% CONCENTRATE** controls Ants (including carpenter and Argentine), Armyworms, Black Turf Ataenius, Chinch bugs, Cockroaches, Crickets, Cutworms, Earwigs, Fleas, Greenbugs (aphids), Grasshoppers, Lawn moths (Sod webworms), Millipedes, Mole crickets, Mosquitoes, Non-poisonous spiders, Sowbugs, Spittlebugs, Ticks (Brown dog and Deer ticks which may transmit Lyme Disease), Weevils (including billbugs and

5/17

annual bluegrass) on Bentgrass, Bermuda grass, Bluegrass Fescue, Irish Moss, Merion and St. Augustine lawns.

### APPLICATION INSTRUCTIONS

Apply when insects first appear or when lawn damage is first noticed. Repeat applications only as directed to maintain control. Wait 4 to 6 weeks between applications.

1. Thoroughly wet down grass a few hours before application. Apply when lawn is no taller than 3 inches.
2. Measure the area to be treated. Calculate the square footage by multiplying length times width.
3. Spray evenly over the measured area, treating the entire lawn.
4. Delay additional watering or mowing for 24 hours after application

#### Note:

- For control of carpenter ants, spray 1.5 fl oz. per gallon evenly over 65 sq. ft.
- Mosquitoes coming to rest on treated areas will be controlled for varying periods of time after application, depending on exposure of treated areas to weathering conditions.

### APPLICATION RATES

#### 1. Tank Sprayer

- Use 1.5 fl oz ( 3 Tbs.) per gallon of water to be sprayed over 125 sq. ft.

#### 2. Dial Type Sprayer

- Set dial to 1.5 fl oz.
- Add 6 fl oz to sprayer jar.
- **DO NOT** add water.
- Attach hose to the sprayer.
- Spray evenly over 500 sq ft until jar is empty.

#### 3. Non-Dial Type Hose End Sprayer

- Add 1.5 oz. to the sprayer jar.
- Fill jar with water to the 1 gallon mark.
- Attach jar to sprayer head and shake well
- Attach sprayer to the hose, turn on water, and spray.

### TREES, ROSES, SHRUBS, FLOWERS and OTHER ORNAMENTALS

**Bifen 0.3% CONCENTRATE** controls Aphids, Armyworms, Bagworms, Black vine weevil, Budworms, Cicadas, Citrus black flies, Elm leaf beetles, Elm spanworms, Fall cankerworms, Fall webworm, Flea beetle, Gypsy moth, Hornets, Inchworms, Lacebug, Leafhopper, Leafminers, Leafrollers, Mealybugs, Mites (clover, spruce, spider), Needle scales, Oakworms, Pine beetles, Pine moths, Pine needleminers, Plantbugs, Sawfly, Spittlebugs, and Wasps on Ageratum, Astor, Arizona Cypress, Azalea, Begonia, Birch, Coleus, Common Ninebark and Snowberry, Conifers, Elm, English Ivy, Euonymus, Exacum, Weeping fig, Fir, Gladiolus, Gold Bells, Honeysuckle, Hypoestes, Ivy, Lilac, Marigold, Mock-orange, Nannyberry, Oak, Orchid, Palm, Pansy, Pea Shrub, Petunia, Philodendron, Pine, Poinsettia, Rhododendron, Rose, Snapdragon, Taxus, Tulip tree

(Yellow poplar) and Zinnia.

### APPLICATION INSTRUCTIONS

Apply when insects first appear. Spray to thoroughly cover upper and lower leaf surfaces, stems, and branches. Penetrate dense foliage. When treating potted plants also lightly spray the soil surface. Spray when air is calm to avoid drift. Application should be made at temperatures between 50°F and 75° F. Spray in the early morning or late afternoon when it is cooler, if temperatures will exceed 85° F. Apply as needed, waiting 7 to 14 days between each application.

#### Note:

- Hard to control insects/pests may require 2 to 3 applications
- Mosquitoes coming to rest on treated areas will be controlled for varying periods of time after application, depending on exposure of treated areas to weathering conditions.

### APPLICATION RATES

#### 1. Tank Sprayer

- Use 1.5 fl oz ( 3 Tbs.) per gallon of water.

#### 2. Dial Type Sprayer

- Set dial to 1.5 fl oz.
- Pour **Bifen 0.3% CONCENTRATE** into jar to full or ½ full.
- **DO NOT** add water.
- Attach hose to the sprayer.
- Spray evenly on plants.
- Pour unused product back into original container.

#### 3. Non-Dial Type Hose End Sprayer

- Add 1.5 oz. to the sprayer jar.
- Fill jar with water to the 1 gallon mark.
- Attach jar to sprayer head and shake well
- Attach sprayer to the hose, turn on water, and spray.

### HOME VEGETABLE GARDENS, MELONS and/& FRUIT TREES

**Bifen 0.3% CONCENTRATE** controls Aphids, Armyworms, Bagworms, Cutworms, Fall webworm, Flea beetle, Lacebug, Leafhopper, Mites (clover and spruce), and Plantbugs on listed vegetables, melons and/& fruit trees.

### APPLICATION INSTRUCTIONS

Apply when insects/pests first appear as a thorough spray, wetting leaves and branches, but do not let runoff occur. Re-apply as necessary to maintain control waiting at least 7 days between each application. Be sure to follow important limitations for the specific edible plant you are spraying, including the amount of spray which can be applied, the interval between sprays, and the days to wait before harvest.

### APPLICATION RATES

#### 1. Tank Sprayer

- Use 1.5 fl oz ( 3 Tbs.) per gallon of water to be sprayed over 125 sq. ft.

**2. Dial Type Sprayer**

- Set dial to 1.5 fl oz.
- Add 6 fl oz to sprayer jar.
- **DO NOT** add water.
- Attach hose to the sprayer.
- Spray evenly over 500 sq ft until jar is empty.

**3. Non-Dial Type Hose End Sprayer**

- Add 1.5 oz. to the sprayer jar.
- Fill jar with water to the 1 gallon mark.
- Attach jar to sprayer head and shake well
- Attach sprayer to the hose, turn on water, and spray.

<b>VEGETABLES AND FRUITS</b>	<b>DAYS TO WAIT TO HARVEST</b>
Tomatoes, strawberries, citrus, corn (sweet)	1
Caneberries, raspberries, succulent peas and beans, cucumber, gourds, muskmelon, pumpkin, squash, watermelon	3
Artichoke	5
Broccoli, Chinese broccoli, cabbage, cauliflower, kholrabi, Chinese mustard), eggplant, head lettuce, peppers (bell and non-bell), walnuts	7
Pears	14
Pecans	21

**AROUND HOUSE FOUNDATIONS, PORCHES, PATIOS, STORED LUMBER**

**Bifen 0.3% CONCENTRATE** controls ants (including carpenter ants, lasius, Argentine), centipedes, crickets, earwigs, millipedes and ticks (American, deer tick, brown dog tick) around house foundations, porches, patios, and stored lumber.

**DO NOT TREAT FIREWOOD**

**APPLICATION INSTRUCTIONS**

To keep insects/pests from entering the house, use a hose-end or tank sprayer to spray a 2 foot band of soil around the house next to the foundation. Also spray the foundation of the house to a height of 2 feet. Repeat application every 14 days if necessary.

**Note:**

- To control **carpenter ants** spray 1.5 fl oz. per gallon evenly over 65 sq. ft.

## APPLICATION RATES

### 1. Tank Sprayer

- Use 1.5 fl oz ( 3 Tbs.) per gallon of water to be sprayed over 32 linear feet (125 sq. ft.)

### 2. Dial Type Sprayer

- Set dial to 1.5 fl oz.
- Add 6 fl oz to sprayer jar.
- **DO NOT** add water.
- Attach hose to the sprayer.
- Spray evenly over 500 sq ft until jar is empty.

## FLEAS AND TICKS (including ticks that may transmit Lyme Disease)

**Bifen 0.3 Concentrate** may be used to treat outdoor residential pet areas such as dog houses and dog runs where pests may be present. Do not apply when pets are present. Do not allow pets back into the area until sprays have completely dried. Remove all bedding, toys, food, water and feeding dishes before treatment. Replace bedding with new or cleaned bedding.

**DO NOT apply directly to animals.** To control existing infestations use a product registered for application to animals.

**Ants:** Use the above rates to spray directly onto ants, ant trails, and ant hills.

## FOR INDOOR USE

**Bifen 0.3% CONCENTRATE** controls insect/pests such as Ants (including carpenter ants, Asian Ladybird Beetle, Harvester Ants, Foraging Fire Ants), Carpet Beetles, Fleas, Flies (including Houseflies), Mosquitoes, Moths, Confused Flour Beetle, Granary Weevil, Indian Meal Moth, Red Flour Beetle, Rice Weevil, Sawtoothed Grain Beetle, Roaches, Scorpions, Silverfish, Spiders (including Black Widow, Brown Recluse, Hobo & Daddy Long Legs), Ticks (including ticks that may transmit Lyme Disease). **For Spot and Crack and Crevice Treatment Only. Do Not Apply As a Broadcast Application or Space Spray.**

### FOR USE ON HOME SURFACES INCLUDING:

- On floors, floor coverings (rugs, carpets, tile, vinyl & wood) and baseboards
- In cupboards, pantries, garages, basements or attics
- Around and under sinks, cabinets, stoves, refrigerators, and plumbing
- In cracks and crevices in walls

### SHAKE WELL BEFORE USING

### APPLICATION INSTRUCTIONS



9/17

Before using, cover or remove exposed food (including pet food). Cover all food processing surfaces and utensils. Hold sprayer 12 inches from surfaces being treated. Apply a 4 inch band along the surfaces being treated. Spray until slightly wet without soaking.

**Note:**

- People and pets may re-enter treated area after sprays have dried.
- Thoroughly wash all food processing surfaces and utensils with soap and water before reuse.
- Repeat treatment as needed. Re-treatment is recommended at least once per season.

**APPLICATION RATES**

**1. Pump-Up Sprayer**

- Add 21 fl. oz. to an empty 1 gallon sprayer. Slowly fill with 107 fl. oz. of clean tap water.

**2. Pull-Type Sprayer**

- Remove sprayer and hose from side carrier.
- Insert plug at end of hose into spout cap pushing until it clicks.
- Flip up spout.
- Point sprayer away from body, holding by the handle.
- Slowly pull ring at bottom of sprayer handle until it stops.
- Adjust the nozzle to appropriate spray pattern
- Press and hold button on sprayer to begin spraying.
- Pull ring at sprayer bottom as needed to continue spraying.

**Fleas and Ticks (including ticks that may transmit Lyme Disease)**

**Bifen 0.3% CONCENTRATE** may be used to spot treat infested areas such as pet resting quarters and surrounding areas of floors/floor coverings (rugs, carpet, tile, vinyl, and wood) where pests may be present. Old bedding of pets should be removed and replaced with clean, fresh bedding after treatment of the pet area.

**Note:**

- **Do not spray animals.** To control the source of flea infestation, pets should be treated with a product registered for application to animals.

**Ants**

Apply directly to ants and ant trails.

**STORAGE AND DISPOSAL**

Keep from freezing. Keep pesticide in original container. Do not put into food or drink

10/17

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

**Pesticide Storage:** Store in cool, dry area away from children and domestic animals.

**Disposal: If empty:** Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Do not rinse unless required for recycling. If recycling is not available: then dispose of container in a sanitary landfill or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**If partly filled:** Call your local solid waste agency for disposal instructions. Unless otherwise instructed, place in trash. Never pour unused product down the drain or on the ground.

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS & 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 and before eating, drinking, chewing gum, or using tobacco. Remove contaminated clothing and wash before reuse.

<b>FIRST AID</b>	
<b>If swallowed:</b>	Call a 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.
<b>If inhaled:</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
<b>If on skin or clothing:</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
<b>If in eyes:</b>	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall® International (866) 897-8050 for emergency medical treatment information.	
Note to Physician: Emergency Information call [enter phone number].	

**ENVIRONMENTAL HAZARDS:** This pesticide is extremely toxic to fish and aquatic invertebrates. 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 to 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

14/17

systems. 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 plants. Do not apply this product or allow it to drift to blooming plants if bees are visiting the treatment areas.

**PHYSICAL OR CHEMICAL HAZARDS:** Do not apply this product in or on electrical equipment due to the possibility of shock hazard.

**NOTICE:** Buyer assumes all risks of use, storage or handling of this product not in accordance with directions.

### WARRANTY

Read the entire Directions for Use and Warranty before using this Product. By using this product, user or buyer accepts the following warranty.

[[The directions for use of this product are believed to adequate and must be followed carefully. It is impossible to eliminate all risks associated with the use of this product. Unintended consequences may result because of unknown factors. All such risks shall be assumed by the user or buyer.]]

Control Solutions Inc. is committed to providing high quality products. To the extent consistent with applicable law, Control Solutions Inc. makes no warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond statements on this label. To the extent consistent with applicable law, Control Solutions Inc., the manufacturer, or the Seller shall not be liable for indirect, special, incidental or consequential damages. To the extent consistent with applicable law, the exclusive remedy of the user or buyer shall not exceed the purchase price paid.]

Manufactured by:  
Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507

EPA Reg. No. 53883-228

EPA Est. Number 53883-TX-002

12/17

[OPTIONAL WORDING FOR HOSE END SPRAYER]

- [Ready to Spray]

[APPLICATION USING THE READY-TO-SPRAY HOSE-END SPRAYER:

Application using the ready-to-spray container is easy, convenient, and reduces the likelihood of exposure to the insecticide during mixing or filling a sprayer. The product may be applied to lawns, [roses, flowers], shrubs, listed fruit trees and listed vegetables, or as a perimeter treatment around house foundations, or around outdoor residential pet areas such as doghouses and fenced dog runs.

**APPLICATION INSTRUCTIONS**

**Lawns:**

**Bifen 0.3 Concentrate** controls ants (including carpenter and Argentine, armyworms, black turf ataeuius, chinch bug, cockroaches, crickets, cutworms, earwigs, fleas, greenbugs (aphids), grasshoppers, lawn moths (sod webworms) millipedes, mole crickets, mosquitoes, non-poisonous spiders, sowbugs, spittlebugs, ticks (including brown dog ticks and deer ticks that may spread Lyme disease), and weevils (including billbugs and annual bluegrass weevils) on bentgrass, Bermudagrass, bluegrass, fescue, Irish moss, Merion, and St. Augustine lawns.

Apply when insects first appear or when lawn damage is first noticed. Apply when the lawn is no taller than 3 inches. Repeat applications only if required to maintain control. Wait at least 4 to 6 weeks between applications.

The Ready-to-Spray container is calibrated to spray 1.5 fluid ounces of **Bifen 0.3% Concentrate** in one gallon to cover 125 square feet. Measure the area to be treated. Square footage is equal to the length times the width, e.g. 10 feet X 20 feet = 200 square feet.. The entire full container (32 ounces) covers 2667 square feet. If applying to a smaller area, determine the number of fluid ounces required by dividing the area to be treated by 125, then multiply by 1.5. For example, for 500 square feet,  $500 / 125$  is 4, and  $4 \times 1.5$  means 6 fluid ounces will be required for 500 square feet of lawn. Example areas and amounts to apply are shown in the table below.

Area to be treated	Amount of <b>Bifen 0.3 Concentrate</b> to apply.
100 square feet	1.2 fluid ounces
200 square feet	2.4 fluid ounces
400 square feet	4.8 fluid ounces
800 square feet	9.6 fluid ounces
1000 square feet	12 fluid ounces

**Shake well before using.**

Attach the Ready-to-Spray container to the hose end. **TO ATTACH THE READY-TO-SPRAY CONTAINER:**

13/17

1. Screw the hose into the sprayer.
2. Extend the hose to the portion of the area to be treated farthest from the faucet.
3. Point the nozzle toward the area to be treated, bend the plastic tab back, and turn the knob to the ON position.

Begin spraying, paying attention to the amount being used. Apply the amount of concentrate required evenly over the measured area, while walking backward toward the faucet in order to avoid walking through wet, treated lawn.

If unused product remains in the Ready-to-Use container after the area is evenly covered with the correct amount of concentrate, the container may be removed from the hose, closed, and stored for future applications.

**TO REMOVE THE READY-TO-SPRAY CONTAINER:**

1. Bend the small plastic tab back, and turn the knob counter-clockwise to the OFF position
2. Turn off the water
3. With the sprayer nozzle pointed at the treatment area, bend the plastic tab back and turn to the ON position to relieve water pressure. When water stops flowing, turn the knob back to the OFF position, and unscrew the hose.

**Trees, Roses, Shrubs, Flowers, and Other Ornamentals:**

**Bifen 0.3% Concentrate** controls the following pests:

Aphids, armyworms, bagworms, black vine weevils, budworms, cicadas, citrus black flies, elm leaf beetles, elm spanworms, fall cankerworms, fall webworms, flea beetles, Gypsy moths, hornets, inchworms, lacebugs, leafhoppers, leafminers, leafrollers, mealybugs, mites (including clover, spruce, and spider), needle scales, oakworms, pine beetles, pine moths, pine needleminers, plantbugs, sawflies, spittlebugs, and wasps

on the following plants:

Ageratum, astors, Arizona cypress, azaleas, begonias, birch, coleus, common ninebark, snowberry, conifers, elm, English ivy, euonymus, exacum, weeping fig, fir, gladioli, gold bells, honeysuckle, hypoestes, ivy, lilacs, marigolds, mock-orange, nannyberry, oak, orchids, palms, pansies, pea shrubs, petunias, philodendron, pine, poinsettia, rhododendron, snapdragons, Taxus (yew), tulip tree (yellow poplar), and zinnias.

Apply when insects first appear

The Ready-to-Spray container is calibrated to apply 1.5 fluid ounces of **Bifen 0.3% Concentrate** per gallon of water.

**Shake well before using.**

Attach the Ready-to-Spray container to the hose end. **TO ATTACH THE READY-TO-SPRAY CONTAINER:**

1. Screw the hose into the sprayer.
2. Extend the hose to the portion of the area to be treated farthest from the faucet.
3. Point the nozzle toward the area to be treated, bend the plastic tab back, and turn the knob to the ON position.

14/17

Begin spraying, paying attention to the amount being used, while walking back toward the faucet. Spray to evenly and thoroughly cover upper and lower leaf surfaces, stems, and branches to wetness. If plants have dense foliage, begin by penetrating the foliage to spray inner leaves, stems and branches, and then spraying the outer surfaces. When treating potted plants, also apply a light spray to the soil surface. Apply when temperature is between 50 and 75° F. If daily temperature will exceed 85° F, apply in early morning or evening when temperatures are at their coolest. Mosquitoes coming to rest on treated foliage will be controlled for variable periods of time after application, depending on the exposure of treated plants to weather conditions.

Repeat applications may be made if necessary. Hard to control insects may require 2 to 3 applications. Wait 7 to 14 days between applications.

If unused product remains in the Ready-to-Use container after the area is evenly covered with the correct amount of concentrate, the container may be removed from the hose, closed, and stored for future applications.

**TO REMOVE THE READY-TO-SPRAY CONTAINER:**

1. Bend the small plastic tab back, and turn the knob counter-clockwise to the OFF position
2. Turn off the water
3. With the sprayer nozzle pointed at the treatment area, bend the plastic tab back and turn to the ON position to relieve water pressure. When water stops flowing, turn the knob back to the OFF position, and unscrew the hose.

**Home Vegetable Gardens and Fruit Trees**

**Bifen 0.3 Concentrate** controls the following insects:

Aphids, armyworms, bagworms, cutworms, fall webworms, flea beetles, lacebugs, leafhoppers, clover mites, spruce mites, and plant bugs on the vegetables, melons, and fruit trees listed in the table below. Apply when insects first appear.

Garden Crop	Days between application and harvest
Tomatoes, strawberries, citrus, sweet corn	1
Caneberries, raspberries, succulent peas and beans, cucumbers, gourds, muskmelon / cantaloupe, pumpkin, squash, watermelon	3
Artichokes	5
Broccoli, Chinese broccoli, cabbage, cauliflower, kohlrabi, Chinese mustard, eggplants, head lettuce, peppers (bell and non bell), walnuts	7
Pears	14
Pecans	21

15/17

The Ready-to-Spray container is calibrated to spray 1.5 fluid ounces of **Bifen 0.3% Concentrate** in one gallon to cover 125 square feet. Measure the area to be treated. Square footage is equal to the length times the width, e.g. 10 feet X 20 feet = 200 square feet.. The entire full container covers 2667 square feet. If applying to a smaller area, determine the number of fluid ounces required by dividing the area to be treated by 125, then multiply by 1.5 For example, for 500 square feet,  $500 / 125$  is 4, and  $4 \times 1.5$  means 6 fluid ounces will be required for 500 square feet of lawn. Example areas and amounts to apply are shown in the table below.

Area to be treated	Amount of <b>Bifen 0.3 Concentrate</b> to apply.
100 square feet	1.2 fluid ounces
200 square feet	2.4 fluid ounces
400 square feet	4.8 fluid ounces
800 square feet	9.6 fluid ounces
1000 square feet	12 fluid ounces

**Shake well before using.**

Attach the Ready-to-Spray container to the hose end. **TO ATTACH THE READY-TO-SPRAY CONTAINER:**

1. Screw the hose into the sprayer.
2. Extend the hose to the portion of the area to be treated farthest from the faucet.
3. Point the nozzle toward the area to be treated, bend the plastic tab back, and turn the knob to the ON position.

Begin spraying, walking back toward the faucet, paying attention to the amount being used. Spray to evenly and thoroughly cover upper and lower leaf surfaces, stems, and branches to wetness, but not to runoff. Re-apply as needed to maintain control, but wait at least 7 days between applications.

Apply when temperature is between 50 and 75° F. If daily temperature will exceed 85° F, apply in early morning or evening when temperatures are at their coolest.

If unused product remains in the Ready-to-Use container after the area is evenly covered with the correct amount of concentrate, the container may be removed from the hose, closed, and stored for future applications.

**TO REMOVE THE READY-TO-SPRAY CONTAINER:**

1. Bend the small plastic tab back, and turn the knob counter-clockwise to the OFF position
2. Turn off the water
3. With the sprayer nozzle pointed at the treatment area, bend the plastic tab back and turn to the ON position to relieve water pressure. When water stops flowing, turn the knob back to the OFF position, and unscrew the hose.

**Applications Around House Foundations, Porches, Patios, and Stored Lumber:** **Bifen 0.3% Concentrate** controls ants (including carpenter\*, lasius, and Argentine), centipedes, crickets, earwigs, millipedes, and ticks (including American ticks, brown dog

16/17

ticks, and deer ticks that may transmit Lyme disease) around house foundations, porches, patios, and stored lumber.

**Do not treat firewood.**

To prevent insects entering the house, apply as 2 foot band around the house next to the foundation, as well as a band 2 feet high on the foundation. If necessary, re-apply not more often than 14 days.

The Ready-to-Spray container is calibrated to spray 1.5 fluid ounces of **Bifen 0.3% Concentrate** in one gallon to cover 32 linear feet, when applied as described above. Measure the length to be treated. The entire full container covers 2667 square feet. If applying to a smaller area, determine the number of fluid ounces required by dividing the length to be treated by 32, then multiply by 1.5. For example, for 100 linear feet,  $100 / 32 = 3 \frac{1}{4}$ , multiplied by 1.5 to determine that 4.7 fluid ounces are required. Example areas and amounts to apply are shown in the table below.

Length of treated surface	Amount of <b>Bifen 0.3 Concentrate</b> to apply.
32 feet	1.5 fluid ounces
50 feet	2.3 fluid ounces
100 feet	4.7 fluid ounces
200 feet	9.4 fluid ounces
500 feet	23.5 fluid ounces
1000 feet	47 fluid ounces

**Ants:** Use the above rates to spray directly onto ants, ant trails, and ant hills.

**Shake well before using.**

Attach the Ready-to-Spray container to the hose end. **TO ATTACH THE READY-TO-SPRAY CONTAINER:**

1. Screw the hose into the sprayer.
2. Extend the hose to the portion of the area to be treated farthest from the faucet.
3. Point the nozzle toward the area to be treated, bend the plastic tab back, and turn the knob to the ON position.

Begin spraying, walking back toward the faucet, paying attention to the amount being used.

If unused product remains in the Ready-to-Use container after the area is evenly covered with the correct amount of concentrate, the container may be removed from the hose, closed, and stored for future applications.

**TO REMOVE THE READY-TO-SPRAY CONTAINER:**

1. Bend the small plastic tab back, and turn the knob counter-clockwise to the OFF position
2. Turn off the water



17/17

3. With the sprayer nozzle pointed at the treatment area, bend the plastic tab back and turn to the ON position to relieve water pressure. When water stops flowing, turn the knob back to the OFF position, and unscrew the hose.

**Fleas and Ticks (Including Ticks that may Transmit Lyme Disease)**

**Blifen 0.3 Concentrate** may be used to treat outdoor residential pet areas such as dog houses and dog runs where pests may be present. Do not apply when pets are present. Do not allow pets back into the area until sprays have completely dried. Remove all bedding, toys, food, water and feeding dishes before treatment. Replace bedding with new or cleaned bedding.

**DO NOT apply directly to animals.** To control existing infestations use a product registered for application to animals.]

[end of optional text for hose-end ready-to-spray]