

34704-957

Revised Draft Label 08/07

03/06/2007

110

**RESTRICTED USE PESTICIDE**

**Toxic to Fish and Aquatic Organisms**

For retail sale to and use only by certified applicators, or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

**Bifenthrin 0.2 Granules**

For use to control Ants (including Imported Fire Ants), Mole Crickets and other insect pests on lawns in landscaped areas and perimeters around residential, institutional, public, commercial and industrial buildings, parks, recreational areas, golf courses, sod farms and athletic fields.

For use as a Quarantine Treatment against Imported Fire Ants and for Balled and Containerized Nursery Stocks.

| Active Ingredient:      | By Wt. |
|-------------------------|--------|
| Bifenthrin* .....       | 0.2%   |
| Other Ingredients ..... | 99.8%  |
| Total .....             | 100.0% |

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

EPA Reg. No. 34704-957

EPA Est. No. 34704-MS-2

Net Contents 10 Pounds

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

See other panels for additional precautionary information.

**DO NOT USE THIS PRODUCT ON GOLF COURSES AND SOD FARMS IN NASSAU COUNTY OR SUFFOLK COUNTY, NEW YORK.**

| <b>FIRST AID</b>  |   |
|---|---|
| <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 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul> |
| <b>HOTLINE NUMBER</b>   |   |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For a medical emergency involving this product call: 1-800-301-7976. |   |
| <b>NOTE TO PHYSICIAN</b>  |   |
| This product is a pyrethroid. If large amounts have been ingested, milk, cream and other digestible fats and oils may increase absorption and so should be avoided.                       |   |

**ACCEPTED**  
 MAR 6 2007  
 Under the Federal Insecticide,  
 Fungicide, and Rodenticide Act,  
 as amended, for the pesticide  
 Registered under  
 EPA Reg. No. 34704-

957

Formulated for:



P.O. Box 1286  
Greeley, CO 80632

EXP 1/08/07



## **PRECAUTIONARY STATEMENTS**

### **Hazards to Humans and Domestic Animals**

#### **Caution**

Harmful is absorbed through skin. Avoid contact with skin, eyes or clothing.

**The following Personal Protective Equipment requirements apply to sod farm use only.**

#### **Personal Protective Equipment:**

Applicators and other handlers must wear:

- Long sleeved shirt and long pants
- Waterproof gloves
- 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 PPE 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 extremely toxic to fish and aquatic invertebrates. 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 apply when weather conditions favor drift from treated areas. 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 or rinsate.

## **DIRECTIONS FOR USE**

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

#### **Restrictions:**

Do not apply by air.

Do not apply more than 0.2 lbs. active ingredient per acre per application on residential use sites (i.e. around private homes, apartment buildings, condominiums, non-agricultural outbuildings, non-commercial greenhouses, pre-schools or day care facilities). May be applied at up to 0.4 lb. a.i. per acre per application on non-residential use sites (i.e., around institutional, public, commercial or industrial buildings; golf courses; sod farms; parks; recreational areas or athletic fields).

Do not broadcast apply more than 0.4 lbs. a.i. (200 lbs. Bifenthrin 0.2 Granules) per acre per year.

Do not apply within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds.

Not for use on commercial greenhouses or grass grown for seed.

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) 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 to treated areas during the restricted entry interval (REI) of 12 hours.

**Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.**

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
- Waterproof gloves
- 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.

If watering-in of the granules is necessary, do not allow people or pets on treated areas until the grass or soil is dry. Do not touch treated surface until dry.

**STORAGE AND DISPOSAL**

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 close tightly.

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

To confine spill: Cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

**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**

Paper and plastic bags: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC 1-800-424-9300.

**Resistance:** Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state pest management authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and suspect that resistance is a reasonable cause, immediately consult your local company representative or pest management advisor for the best alternative method of control for your area.

## GRASS AND PERIMETER APPLICATIONS

(Including Golf Courses and Sod Farms)

### Grass Application

Broadcast Bifenthrin 0.2 Granules with suitable application equipment to ensure uniform coverage over the treatment area.

### Application Rates

Follow the application rates in the table below for control of listed pests under normal conditions. However, if insect pressure is heavy, Bifenthrin 0.2 Granules may be applied at up to 0.4 lb. a.i. per acre to control the listed pests.

NOTE: When used on residential lawns, do not apply more than 0.2 lbs. a.i. per acre per application.

**Food utensils such as tablespoons and measuring cups must not be used for food purposes after use in measuring pesticides.**

| Pest   | Application Rate<br>Bifenthrin 0.2<br>Granules   | Application Instructions   |
|--|--|--|
| Armyworms<br>Cutworms<br>Sod Webworm   | 50 lbs.<br>per acre<br>or<br>1.15 lbs.<br>per 1,000 sq. ft.<br><br>(0.1 lbs. ai/A)             | <b>Armyworms, Cutworms, and Sod Webworms:</b> For optimum control, irrigate the treated area with up to 0.1 inches of water immediately after application to activate (release from the granule) the insecticide.  |
| Annual Bluegrass Weevil ( <i>Hyperodes</i> ) (Adult)<br>Billbugs (Adult)<br>Black Turfgrass Ataenius (Adult)<br>Leafhoppers<br>Mealybugs | 50-100 lbs.<br>per acre<br>or<br>1.15-2.3 lbs.<br>per 1,000 sq. ft.<br><br>(0.1-0.2 lbs. ai/A) | <b>Annual Bluegrass Weevil (<i>Hyperodes</i>) adults:</b> Applications should be timed to control adult weevils as they leave their overwintering sites and move into grass areas. This movement generally begins when <i>Forsythia</i> is in full bloom and concludes when flowering dogwood is in full bloom. Consult your State Cooperative Extension Service for more specific information regarding application timing.<br><b>Billbugs adults:</b> Applications should be made when adult billbugs are first observed during April and May. Degree day models have been developed to optimize application timing. Consult your State Cooperative Extension Service for information specific to your region. In temperature regions, spring applications targeting billbug adults will also provide control of over-wintered chinch bugs.<br><b>Black Turfgrass Ataenius:</b> Applications should be made during May and July to control the first and second generation of black turfgrass ataenius adults, respectively. The May application should be timed to coincide with the full bloom stage of Vanhoutte spiraea ( <i>Spiraea vanhouttei</i> ) and horse chestnut ( <i>Aesculus hippocastanum</i> ). The July application should be timed to coincide with the blooming of Rose of Sharon ( <i>Hibiscus syriacus</i> ). |
| Ants (including Carpenter, Red Harvester, Pavement, Odorous Pyramid, Argentine, Pharaoh)   | 100-200 lbs.<br>per acre<br>or<br>2.3-4.6 lbs.<br>per 1,000 sq. ft.                            | <b>Chinch Bugs:</b> Chinch bugs infest the base of grass plants and are often found in the thatch layer. Irrigate the treated area with up to 0.25 inches of water immediately after application to activate (release from the granule) the insecticide. Chinch bugs can be one of the most difficult pests to control in grasses and the higher application rates may be required to control populations  |

|  |                            |  |
|--|----------------------------|--|
| <p>(Sugar) and Foraging<br/>Fire Ants)<br/>Centipedes<br/>Chiggers<br/>Chinch Bugs<br/>Crickets<br/>Earwigs<br/>Fleas (Adults)<br/>Fleas (Larvae)<br/>Grasshoppers<br/>Imported Fire Ants<br/>(Adult)<br/>Imported Fire Ants<br/>(Mounds)<br/>Millipedes<br/>Mole Cricket (Adult)<br/>Mole Cricket (Nymph)<br/>Scorpions<br/>Spiders<br/>Ticks (including Brown<br/>Dog Ticks)</p> | <p>(0.2-0.4 lbs. ai/A)</p> | <p>that contain both nymphs and adults during the summer.</p> <p><b>Flea Larvae:</b> Flea larvae develop in the soil of shaded areas that are accessible to pets or other animals. Irrigate the treated area with up to 0.5 inches of water immediately after application to activate (release from the granule) the insecticide.</p> <p><b>Imported Fire Ants:</b> Control will be optimized by combining broadcast applications that will control foraging workers and newly mated fly-in queens with mound drenches that will control existing colonies. If the soil is not moist, then it is important to irrigate before application. Broadcast treatments should apply up to 0.4 lb a.i./acre. Application of 125 lbs. per acre (0.25 lbs. a.i./acre) of Bifenthrin 0.2 Granules will provide six months residual activity for control of foraging imported Fire Ants and newly mated Fly-In Queens.</p> <p><b>Fire Ant mound treatment:</b> Mounds should be treated by diluting 1 teaspoon of Bifenthrin 7.9 FL Nursery Insecticide/Miticide (EPA Reg. No. 34704-888) formulation per gallon of water and applying 1 to 2 gallons of finished spray per mound or by applying ½ cup of Bifenthrin 0.2 Granules per mound and then drenching the mound with 1 to 2 gallons of water. The mounds should be treated with sufficient force to break their apex and allow the insecticide solution to flow into the ant tunnels. A four-foot diameter circle around the mound should also be treated. For best results, apply in cool weather (65-80°F) or in early morning or late evening hours. This treatment will kill the queen within 24 hours of application. Treat new mounds as they appear. NOTE: A spray rig that is calibrated to apply 0.1 lb. a.i./acre (20 oz.) of Bifenthrin 7.9 FL in 2.5 gallons per 1,000 sq. ft. contains the approximate dilution (1 teaspoon per gallon) that is required for the Fire Ant mound drenches in the spray tank. An application of 125 lbs./acre of Bifenthrin 0.2 G Insecticide will provide six months residual activity for control of foraging Imported Fire Ants and newly mated Fly-In Queens.</p> <p><b>Mole Cricket adults:</b> Control of adult mole crickets is difficult because of the continuous invasion of preferred grass areas during the early spring. Application should be made as late in the day as possible and should be watered in with up to 0.5 inches of water immediately after treatment. If the soil is not moist, then it is important to irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized. Grass areas that receive pressure from adult mole crickets should be treated at peak egg hatch to ensure optimum control of subsequent nymph populations (see below).</p> <p><b>Mole Cricket nymphs:</b> Grass areas that received intense adult mole cricket pressure in the spring should be treated immediately prior to peak egg hatch. Optimal control is achieved at this time because young nymphs are more susceptible to insecticides and they are located near the soil surface where the insecticide is most concentrated. Control of larger, more damaging, nymphs later in the year may require both higher application rates and more frequent applications to maintain acceptable control. Applications should be made as late in the day as possible and should be watered in with up to 0.5 inches of water immediately after treatment. If the soil is not moist, then it is important to irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized.</p> <p><b>Scorpions:</b> For best results, treat the building perimeter at dusk to prevent outdoor scorpions from entering the building. Scorpions hide in the cracks and voids during the day and are active at night at temperatures above 77° F/25° C. Resting areas can be identified at night using a blacklight (UV bulb) as scorpions fluorescent. These areas should also be treated. Prior to treatment, to increase efficacy, remove trash, debris, or firewood that scorpions may use as resting sites.</p> <p><b>Ticks (including ticks that may transmit Lyme Disease and Rocky Mountain Spotted fever):</b> Do not make spot applications. Treat the entire area where exposure to ticks may occur. Use higher application rates when treating areas with dense ground cover or heavy leaf litter. Ticks may be reintroduced from surrounding areas on host animals. Retreat as necessary to maintain adequate control. Do not allow public use of treated areas during application.</p> <p><b>Deer Ticks (<i>Ixodes sp.</i>)</b> have a complicated life cycle that ranges over a two-year period and involves four life stages. Applications should be made in mid to late spring to control larvae and nymphs that reside in the soil and leaf litter.</p> |
|--|----------------------------|--|

|   |  |   |
|---|--|---|
|   |  | American dog ticks may be a considerable nuisance in suburban settings, particularly where homes are built on land that was previously field or forest. These ticks commonly congregate along paths or roadways where humans are likely to be encountered. Applications should be made as necessary from mid-spring to early fall to control American dog tick larvae, nymphs and adults. |
| European Crane Flies<br>Pillbugs<br>Scorpions<br>Sowbugs<br>Spiders | 200 lbs.<br>per acre<br>or<br>4.6 lbs.<br>per 1,000 sq. ft.<br><br>(0.4 lbs. ai/A) |   |

In New York State, this product may NOT be applied to any grass or turf area within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).  
In New York State, do make a single repeat application of Bifenthrin 0.2 Granules if there are signs of renewed insect activity, but not sooner than two weeks after the first application.

**Perimeter Application**

Apply to ground area 5 to 10 feet wide around and adjacent to the structure.

**Boundary Application**

Apply to soil areas, ornamental gardens, pavement crevices, fencelines, planter areas, vegetation areas and mulch areas.

**Note:** The amounts of Bifenthrin 0.2 Granules listed in the table are based on the total area being treated. This area is determined by multiplying the linear distance by the band width and then adding to that value the area of a circle whose radius is equal to the band width (to account for the area treated at the four corners of a rectangular structure).

| Application Rate         | Band Width | Pounds of Bifenthrin 0.2 Granules for Perimeter Applications |     |      |      |      |      |      |      |
|--------------------------|------------|--|-----|------|------|------|------|------|------|
|                          |            | Linear Distance (Feet) Around Structure                      |     |      |      |      |      |      |      |
| Pounds Per 1,000 sq. ft. | Band Width | 100  | 150 | 200  | 250  | 300  | 400  | 500  | 1000 |
| 2.3                      | 5 ft.      | 1.3  | 1.9 | 2.5  | 3.0  | 3.6  | 4.8  | 5.9  | 11.7 |
| 2.3                      | 10 ft.     | 3.0  | 4.2 | 5.3  | 6.5  | 7.6  | 9.9  | 12.2 | 23.7 |
| 3.0                      | 5 ft.      | 1.7  | 2.5 | 3.3  | 3.9  | 4.7  | 6.3  | 7.7  | 15.2 |
| 3.0                      | 10 ft.     | 3.9  | 5.4 | 6.9  | 8.5  | 9.9  | 12.9 | 15.9 | 30.9 |
| 3.5                      | 5 ft.      | 2.0  | 2.9 | 3.8  | 4.5  | 5.4  | 7.2  | 8.9  | 17.5 |
| 3.5                      | 10 ft.     | 4.5  | 6.3 | 8.0  | 9.8  | 11.4 | 14.9 | 18.3 | 35.5 |
| 4.6                      | 5 ft.      | 2.6  | 3.8 | 5.0  | 6.0  | 7.2  | 9.6  | 11.8 | 23.4 |
| 4.6                      | 10 ft.     | 6.0  | 8.4 | 10.6 | 13.0 | 15.2 | 19.8 | 24.4 | 47.4 |

**INDUSTRIAL NON-AGRICULTURAL APPLICATIONS**

(Including Industrial Sites, Parks, Ball Fields, and Cemeteries)

**Broadcast Spot Applications**

For the control of actively foraging ants (including Imported Fire Ants) broadcast uniformly 2.3 to 4.6 lbs. Bifenthrin 0.2 Granules per 1000 sq. ft. (0.2 to 0.4 lbs. AI/Acre). See comments section under **Grass Applications** for additional rate recommendations.

**Pad Mounted Electrical Sites**

To reduce or prevent ant mound building activity on electrical pads, uniformly distribute 1.0 to 1.5 Tablespoons (0.06 to 0.09 lbs.) of Bifenthrin 0.2 Granules per 4 sq. ft. of mounting pad. Where existing transformers are completely or partially filled with soil excavated by resident Ants, remove any excess fill and level the remaining soil prior to application.

**Food utensils such as tablespoons and measuring cups must not be used for food purposes after use in measuring pesticides.**

**Note:** Electrical transformers appear to be more attractive to ants during the cooler months. For best results treat in the Fall or early Spring.

**Recommended Spreader Settings for Broadcast Applications**

| Equipment                            | Ground Speed (MPH) | Spreader Settings   |            |                     |            |
|--------------------------------------|--------------------|---------------------|------------|---------------------|------------|
|                                      |                    | 100 pounds per acre |            | 200 pounds per acre |            |
| <b>Hand Pushed</b>                   |                    | Once Over           | Twice Over | Once Over           | Twice Over |
| LESCO Rotary                         | 3                  | B + ¼               | A + ½      | C + ½               | B + ¼      |
| Scotts R-8A-1 Rotary                 | 3                  | G                   | E          | Not Rec.            | G          |
| Gandy Models (42, 36, 30, 24")       | 3                  | 12                  | 10.5       | 16                  | 12         |
| Spyker (all models)                  | 3                  | 2.6                 | 2          | 3.1                 | 2.6        |
| <b>Equipment Drawn (PTO-540 RPM)</b> |                    | Once Over           | Twice Over | Once Over           | Twice Over |
| Gandy Models (42, 36, 30, 24")       | 4.5                | 14                  | 11.5       | 19                  | 14         |
| Gandy 6500 Series                    | 4.5                | 15                  | 11         | 20                  | 15         |
| Gandy 10T Series                     | 5.0                | 16.5                | 12         | 24                  | 16.5       |
| Herd GT-77                           | 4.0                | --                  | --         | 8-H                 | --         |
| Herd GT-77                           | 8.0                | 8-H                 | --         | --                  | 8-H        |
| Lely 2.3202.000.1                    | 4.5                | 2                   | 1          | 3.5                 | 2          |
| Lely Model L-400                     | 4.5                | Not Rec.            | Not Rec.   | 2                   | Not Rec.   |
| Vicon PS402                          | 4.5                | 10                  | 7          | 16                  | 10         |
| Vicon PS1002T                        | 4.5                | 13                  | 9          | 21                  | 13         |

**Note:** These recommended settings should be used as starting points when calibrating a spreader to achieve the desired application rate of Bifenthrin 0.2 Granules. After calibration, the technician should regularly observe the amount of Bifenthrin 0.2 Granules that is applied to a known area and make further setting adjustments, as necessary, to maintain the appropriate application rate. Spreaders should be calibrated periodically to ensure that equipment wear or other factors have not altered the flow rate of Bifenthrin 0.2 Granules. Calibration instructions are included in the Owner's Manual that was provided by the equipment manufacturer at the time of purchase.

**Recommended Spreader Settings (Optional Text)**

*Note: Following will be a list of application spreaders and appropriate settings. This list will vary depending on the alternate carrier used. (This note will not appear on final printed label).*

**Note:** These spreader settings were established using standard equipment available from the spreader manufacturer at swath widths and speeds typically used within the industry. It is recommended that all spreader equipment be calibrated at the time of application to achieve the desired application rate.

**FOR USE AS A QUARANTINE TREATMENT AGAINST IMPORTED FIRE ANTS AND FOR BALLED AND CONTAINERIZED NURSERY STOCKS**

**GENERAL USE INSTRUCTIONS**

Bifenthrin 0.2 Granules insecticide may be used for soil incorporation into potting media used in balled and containerized nursery stock for the control of Imported Fire Ants and other insects listed on this label.

**ORNAMENTAL USE**

Bifenthrin 0.2 Granules insecticide may be incorporated into the potting mix used in containerized plantings of ornamental trees, shrubs, plants, flowers, conifers, Christmas trees, and non-bearing fruit and nut trees, and bushes.

**HERB USE**

Bifenthrin 0.2 Granules insecticide may be incorporated into the potting mix used in containerized plantings of the following herbs:

|               |                  |               |                           |
|---------------|------------------|---------------|---------------------------|
| Angelica      | Clary            | Lovage (leaf) | Savory, summer and winter |
| Balm          | Coriander (leaf) | Marigold      | Sweet bay                 |
| Basil         | Costmary         | Marloram      | Tansy                     |
| Borage        | Culantro (leaf)  | Nasturtium    | Tarragon                  |
| Burnet        | Curry (leaf)     | Parsley       | Thyme                     |
| Camomile      | Dillweed         | Pennyroyal    | Wintergreen               |
| Catnip        | Horehound        | Rosemary      | Woodruff                  |
| Chervil       | Hysop            | Rue           | Wormwood                  |
| Chive         | Lavender         | Sage          |                           |
| Chinese chive | Lemongrass       |               |                           |

Minimum pre-shipment interval is 70 days for Herbs.

**Application Instructions**

Bifenthrin 0.2 Granules insecticide is approved under the USDA Plant Protection Imported Fire Ant Quarantine Certification program when used according to USDA guidelines. Follow the recommended application rates in the table below to determine the length of control required for certification. Based on the length of control required, mix the appropriate amount of Bifenthrin 0.2 Granules insecticide with equipment suitable to give uniform distribution in the potting media. Bifenthrin 0.2 Granules insecticide may be pre-mixed with an appropriate amount of sand (1:10) to ensure adequate distribution of the product in the mix.

**Application Rates:**

Incorporate the appropriate amount of Bifenthrin 0.2 Granules in one cubic yard of potting media based on the known bulk density.

| Pest               | USDA IFA Certification Period (Months) | Application Rate (ppm) | Potting Media Bulk Density*                                  |      |     |      |     |
|--------------------|--|------------------------|--|------|-----|------|-----|
|                    |  |                        | 200  | 300  | 400 | 500  | 600 |
|                    |  |                        | lbs. of Bifenthrin 0.2 Granules insecticide per Cubic Yard** |      |     |      |     |
| Imported Fire Ants | 0 – 6                                  | 10                     | 1.0  | 1.5  | 2.0 | 2.5  | 3.0 |
|                    | 7 – 12                                 | 12                     | 1.2  | 1.8  | 2.4 | 3.0  | 3.6 |
|                    | 13 – 24                                | 15                     | 1.5  | 2.25 | 3.0 | 3.75 | 4.5 |
|                    | Continuous                             | 25                     | 2.5  | 3.75 | 5.0 | 6.25 | 7.5 |

**For General Use on Ornamental Plants**  
(outside the scope of USDA Guidelines)



**Application Rates:**

Incorporate the appropriate amount of Bifenthrin 0.2 Granules in one cubic yard of potting media based on the known bulk density. Use the higher rates for extended residual control.

| Pest   | Application Rate (ppm) | Potting Media Bulk Density*                                  |      |     |      |     |
|--|------------------------|--|------|-----|------|-----|
|  |                        | 200  | 300  | 400 | 500  | 600 |
|  |                        | lbs. of Bifenthrin 0.2 Granules insecticide per Cubic Yard** |      |     |      |     |
| Fungus Gnat Larvae   | 5                      | 0.5  | 0.75 | 1.0 | 1.25 | 1.5 |
| Mealybugs  | 10                     | 1.0  | 1.5  | 2.0 | 2.5  | 3.0 |
| Black Vine Weevil  |                        |  |      |     |      |     |
| Root Weevil Larvae   | 10                     | 1.0  | 1.5  | 2.0 | 2.5  | 3.0 |
| White Grubs  | 15                     | 1.5  | 2.25 | 3.0 | 3.75 | 4.5 |
| (including Japanese Beetle, Oriental Beetle, and European Chafer Larvae) | 25                     | 2.5  | 3.75 | 5.0 | 6.25 | 7.5 |
| Imported Fire Ants   |                        |  |      |     |      |     |

\*Bulk density = laboratory determined dry weight of a unit volume of potting media

\*\*Pounds of Bifenthrin 0.2 Granules insecticide per cubic yard =  $\frac{\text{bulk density of potting media} \times \text{ppm}}{2000}$

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

**BEFORE BUYING OR USING THIS PRODUCT**, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of LOVELAND PRODUCTS, INC. and the seller. The buyer or user of this product assumes all such inherent risks.

Subject to the foregoing inherent risks, LOVELAND PRODUCTS, 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 when the product is used in strict accordance with such Directions for Use under normal conditions of use. EXCEPT AS WARRANTED IN THIS LABEL, THIS PRODUCT IS SOLD AS IS TO THE EXTENT ALLOWED BY APPLICABLE LAW. LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE.

IN THE UNLIKELY EVENT THAT BUYER OR USER BELIEVES THAT LOVELAND PRODUCTS, INC. HAS BREACHED A WARRANTY CONTAINED IN THIS LABEL, BUYER OR USER MUST SEND, TO THE EXTENT REQUIRED BY APPLICABLE LAW, WRITTEN NOTICE OF SUCH CLAIM TO THE FOLLOWING ADDRESS: LOVELAND PRODUCTS, INC., ATTENTION: LAW DEPARTMENT, 7251 WEST 4TH STREET, GREELEY, CO 80634.

TO THE EXTENT ALLOWED BY APPLICABLE LAW, THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT, INCLUDING BUT NOT LIMITED TO CLAIMS OF BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR OTHER TORTS, SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. TO THE EXTENT ALLOWED BY APPLICABLE LAW, LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

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