Bifenthrin PL Granular

Only for sale to, use, and storage by commercial applicators for use to control Ants (including Imported Fire Ants), Mole Crickets and other insect pests on lawns in landscaped areas, perimeters around residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields. Use Sites: Landscaped areas, Perimeters and Lawns

Active Ingredient: Bifenthrin PL Granular

<table>
<thead>
<tr>
<th>Active Ingredient</th>
<th>Application Rate Bifenthrin PL</th>
</tr>
</thead>
<tbody>
<tr>
<td>By Wt.</td>
<td>32802-MO-1(b)</td>
</tr>
<tr>
<td>Inert Ingredient.</td>
<td>99.8%</td>
</tr>
<tr>
<td>Total</td>
<td>100.0%</td>
</tr>
</tbody>
</table>

*Inerts include 97% minimum isomers 3% maximum.

EPA Reg. No. 53838-124-32802
EPA Est. No. 32802-WI-1(A), 32802-MO-1(B)

First letter of bag code shows establishment where manufactured.

KEEP OUT OF REACH OF CHILDREN

CAUTION

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

FIRST AID

On skin or clothing:
- 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.

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. Do not apply to areas where aquatic organisms are present. Do not use when water temperature is below 50°F. 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. For use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climate modification and being grown in interior plantscapes, ornamental gardens or parks, or grounds.

Do not apply more than 0.2 lb. active ingredient (a.i.) per acre per application on residential use sites (i.e., around private homes, apartment buildings, condominiums, non-agricultural outbuildings, non-commercial greenhouses, preschools or day care facilities). Applications should be made 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; parks; recreational areas or athletic fields).

Do not broadcast apply more than 0.4 lbs. A.I. (200 lbs. of Bifenthrin PL Granular) per Acre per year.

For use on golf courses, sod farms, nurseries, in commercial greenhouses, industrial buildings, parks, recreational areas and athletic fields.

APPLICATION RATES

The application rates listed in the following table will provide excellent control of the respective pests under typical conditions. However, at the discretion of the applicator, Bifenthrin PL Granular may be applied at up to 0.4 lb A/A to control each of the pests listed in this Table. However, for residential lawn use, the applicator, Bifenthrin PL Granular may be applied at up to 0.4 lb AI/A to control the treated area with up to 0.1 inches of water immediately after application to activate (release from the granule) the insecticide.

Directions for Use continued on back side of package

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) located within the City of New York, or any other area, unless in accordance with the triple repeat application of Bifenthrin PL Granular if there are signs of renewed insect activity, but not sooner than two weeks after the first application.

Compliance

1Armyworms, Cutworms, and Sod Webworms: To ensure 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.

2Annual Bluegrass Weevil (Hyperodes) adults: Applications should be timed to coincide with the blooming of Rose of Sharon (Hypericum syriacum).

3Chinch Bugs: Chinch bugs infest the base of grass plants and are often found in the thatch layer. Applications should be made between 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 turf. Achieving acceptable control of Chinch bugs requires a combination of the best turf management practices and the use of turf quality insecticides that control populations that contain both nymphs and adults during the summer.

4Flea larvae: Flea larvae develop in the soil of shaded areas that are accessible to pets or other animals. Irrigate the treated areas with up to 0.5 inches of water immediately after application to activate (release from the granule) the insecticide.

5Imported Fire ants: Applications should be made during May and July to control the first and second generation of black fire ants. Applications should be made at the conclusion of the critical period of black fire ants. Applications should be made with the blooming of Rose of Sharon (Hypericum syriacum)

6Black Turfgrass Ataenius adults: Applications should be made during May and July to control the first and second generation of black turgrass ataenius adults, respectively. The May application should be timed to coincide with the blooming of Forsythia (Spiraea x vanhouttei) and horse-chestnut (Aesculus hippocastanum). The July application should be timed to coincide with the blooming of Rose of Sharon (Hypericum syriacum)

7Spotted Fever

8Ticks (Including ticks that transmit Lyme Disease and Rocky Mountain Spotted Fever): Do not make spot applications. Treat the entire area where exposure to ticks may occur. Use the higher application rates when treating areas with dense ground cover or heavy leaf litter. Ticks may be reintroduced from surrounding areas to host animals. Do not allow public use of treated areas during application.

Deer ticks (Ixodes sp.) have a complicated life cycle that ranges over a two-year period and involves four life stages. Applications should be made in mid-summer to control larvae and nymphs that reside in the soil and leaf litter. 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 pathways 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.

Net Weight 25 lbs (11.34 kg)

Directions for Use continued on back side of package
Perimeter Application: Apply to ground area 5 to 10 feet wide around and adjacent to the structure.

Boundary Applications: Apply to soil areas, ornamental gardens, pavement crevices, fences and planter areas, vegetation areas and mulch areas.

Granular per 1000 sq. ft. (0.2 to 0.4 lbs. ai/Acres). See comments section (including Imported Fire Ants) broadcast uniformly 2.3 to 4.6 lbs. Bifenthrin PL (Including Industrial Sites, Parks, Ball Fields and Cemeteries) purposes after use with insecticide utensils such as teaspoons and measuring cups should not be used for food drenched with sufficient force to break its apex and allow the insecticide to flow and then drench the mound with 1 to 2 gallons of water. The mound should be Fire ant mound treatment:

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

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 PL Granular per 1000 sq. ft. (0.2 to 0.4 lbs. ai/Acre). See comments section under Lawn Applications for additional rate recommendations.

- Fire ant mound treatment:
  - Apply ½ cup of Bifenthrin PL Granular per mound and then drench the mound with 1 to 2 gallons of water.
  - The mound should be drenched with sufficient force to break its apex and allow the insecticide to flow into the ant tunnels. For best results, apply in cool weather (65°F to 80°F) or in early morning or late evening hours. Treat new mounds as they appear. Food utensils such as teaspoons and measuring cups should not be used for food purposes after use with insecticide.

- 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 PL Granular per 4 sq. ft. of mounting pad. Where existing transformers are completely or partially filled with soil excavated by resi- dent ants, remove any excess fill and level remaining soil prior to application.

- Food utensils such as tablespoons 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.

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

- If resistance to this product develops in your area, this product, or other prod- ucts 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 diffi- culty with control and suspect that resistance is a reasonable cause, immedi- ately consult your local company representative or pest management advisor for the best alternative method of control for your area.

**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 close tightly.

- 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 equipment application. 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.

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### Bifenthrin PL Granular Insecticide

#### Recommended Spreader Settings for Broadcast Applications

<table>
<thead>
<tr>
<th>Spreader Settings</th>
<th>Equipment</th>
<th>Ground Speed (MPH)</th>
<th>100 pounds per acre</th>
<th>200 pounds per acre</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Once Over</td>
<td>Twice Over</td>
</tr>
<tr>
<td><strong>LESCO Rotary</strong></td>
<td>3</td>
<td>B + ¾</td>
<td>A + ½</td>
<td>14</td>
</tr>
<tr>
<td><strong>Scotts R-BA-1 Rotary</strong></td>
<td>3</td>
<td>G</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Gandy Models (42, 36, 30, 24&quot;)</strong></td>
<td>3</td>
<td>12</td>
<td>10.5</td>
<td>16</td>
</tr>
<tr>
<td><strong>Spyker (all models)</strong></td>
<td>3</td>
<td>2.6</td>
<td>2</td>
<td>3.1</td>
</tr>
</tbody>
</table>

| **Equipment Drawn (PTO=540 RPM)** | 4.5         | 4.5                 | 15        | 11        | 20        | 15        |
| **Gandy 6500 Series** | 4.5         | G                   | 16.5      | 12        | 24        | 16.5      |
| **Gandy 10T Series** | 5.0         |                    | 8-H       | 8-H       | --        | --        |
| **Herd GT-77** | 8.0         | 8-H                 | 3.5       | 2         | 3.5       | 2         |
| **Lely 2.3220.000.1** | 4.5         | 4.5                 | Not Rec.  | 2         | Not Rec.  | 2         |
| **Vicon PS402** | 4.5         | 4.5                 | 7         | 16        | 16        | 10        |
| **Vicon PS1002** | 4.5         |                     | 9         | 21        | 21        | 13        |

**Note:** These recommended settings should be used as starting points when calibrating a spreader to achieve the desired applica- tion rate of Bifenthrin PL Granular. After calibration, the technician should regularly observe the amount of Bifenthrin PL Granular 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 PL Granular. Calibration instructions are included in the Owner’s Manual that was provided by the equipment manufactu- rer at the time of purchase.

- **Dealers Should Sell in Original Packages Only.**

- **Terms of Sale or Use:** On purchase of this product buyer and user agree to the following conditions:

  - **Warranty:** Control Solutions, Inc. makes no warranty, expressed or implied, concerning the use of this product other than indicat- ed on the label. Except as so warranted, the product is sold as is.

  - **Buyer and user assume all risk of use and/or handling and/or storage of this material when such use and/or handling and/or storage is contrary to label instructions.**

  - **Directions and Recommendations:** Follow directions carefully. Timing, method of application and weather conditions, mixture with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the seller and area assumed by the buyer at his own risk.

  - **Use of Product:** Howard Johnson’s Enterprises, Inc’s recommendations for the use of this product are based upon tests believed to be reliable. The use of this product being beyond control of the manufacturer, no guarantee, expressed or implied, is made as to the effects of such or the results to be obtained if not used in accordance with directions or established safe practice.

  - **Damages:** Buyer’s or user’s exclusive remedy for damages for breach of warranty or negligence shall be limited to direct dam- ages not exceeding the purchase price paid and shall not include incidental or consequential damages.

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