



## OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

January 15, 2026

Karen Murphy  
Regulatory Manager – Liberty Crop Protection  
1880 Fall River Drive Suite 100  
Loveland CO, 80538

Subject: Label Amendment - Registration Review Mitigation for Bifenthrin  
Product Name: LIBERTY IMIDACLOPRID BIFENTHRIN 2/1 SC INSECTICIDE  
EPA Registration Number: 89168-22  
Case Number: 471474  
Application Dates: March 23, 2021

Dear Karen Murphy:

The Agency, in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Bifenthrin Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling and must be used at your next label printing. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may

distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Antoine Gremaud by phone at 919-541-5067, or via email at [Gremaud.antoine@epa.gov](mailto:Gremaud.antoine@epa.gov).

Sincerely,

A handwritten signature in dark ink, appearing to read "Kevin Costello", is positioned above the typed name.

Kevin Costello, Branch Chief  
Risk Management and Implementation Branch 2  
Pesticide Re-Evaluation Division  
Office of Pesticide Programs

ENCLOSURE: Stamped label

|              |       |    |             |
|--------------|-------|----|-------------|
| Bifenthrin   | GROUP | 3A | INSECTICIDE |
| Imidacloprid | GROUP | 4A | INSECTICIDE |

# LIBERTY IMIDACLOPRID BIFENTHRIN

## 2/1 SC INSECTICIDE

FOR FOLIAR AND SYSTEMIC CONTROL OF INSECT PESTS OF TURFGRASS,  
LANDSCAPE ORNAMENTALS, SHRUBS AND TREES IN LAWNS, LANDSCAPES,  
PLAYGROUNDS, PARKS AND ATHLETIC FIELDS.

### ACTIVE INGREDIENTS:

Imidacloprid ..... 21.29%  
Bifenthrin\* ..... 10.64%

OTHER INGREDIENTS: ..... 68.07%  
TOTAL: ..... 100.00%

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

Contains 2.0 pounds of imidacloprid and 1.0 pound of bifenthrin per gallon

### KEEP OUT OF REACH OF CHILDREN

## CAUTION - PRECAUCION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.  
(If you do not understand the label, find someone to explain it to you in detail.)

**[SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS]**

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300

For Medical Emergencies Only, Call (877) 325-1840

NOTE: Spanish language is optional

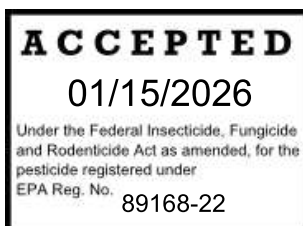
For both indoor and outdoor use.

EPA Reg. No. 89168-22

EPA Est. No.

LIBERTY CROP PROTECTION, LLC  
1880 Fall River Drive, Suite 100  
Loveland, CO 80538

Net Contents: \_\_\_\_\_ Gal. (\_\_\_\_\_ L)



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**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**CAUTION - PRECAUCION**

Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

**Applicators and other handlers must wear:** Long-sleeved shirt and long pants, socks, shoes and gloves made of barrier laminate or viton  $\geq$  14 mils.

**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.
- 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.

**FIRST AID**

|                      |  |
|----------------------|--|
| <b>IF SWALLOWED:</b> | <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 to an unconscious person.</li></ul> |
|----------------------|--|

**HOTLINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-(877)-325-1840 for emergency medical treatment information.

**NOTE TO PHYSICIAN**

Note to Physician: No specific antidote is available. Treat the patient symptomatically. This product contains a pyrethroid. If large amounts have been ingested, milk, cream and other digestible fats and oils may increase absorption and should be avoided.

**ENVIRONMENTAL HAZARDS**

This product is extremely toxic to fish and aquatic invertebrates and toxic to wildlife. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Except for uses that require watering-in, 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 systems. Run-off may be hazardous to aquatic organisms in water adjacent to treated areas.

This product contains a chemical with properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater

contamination.

This product is highly toxic to bees exposed to direct treatment or residues on blooming plants or weeds. Do not apply or allow product to drift to blooming plants or weeds if bees are visiting the treatment area. **Protect pollinating insects by following label directions intended to minimize drift and to reduce risk to these organisms.**

## PROTECTION OF POLLINATORS



**APPLICATION RESTRICTIONS** EXIST FOR THIS PRODUCT BECAUSE OF RISK TO BEES AND OTHER INSECT POLLINATORS. FOLLOW APPLICATION RESTRICTIONS FOUND IN THE DIRECTIONS FOR USE TO PROTECT POLLINATORS.



Look for the bee hazard icon in the Directions for Use for each application site for specific use restrictions and instructions to protect bees and other insect pollinators.

**This product can kill bees and other insect pollinators.**

Bees and other insect pollinators will forage on plants when they flower, shed pollen, or produce nectar.

Bees and other insect pollinators can be exposed to this pesticide from:

- Direct contact during foliar applications, or contact with residues on plant surfaces after foliar applications
- Ingestion of residues in nectar and pollen when the pesticide is applied as a seed treatment, soil, tree injection, as well as foliar applications.

When Using This Product Take Steps To:

- Minimize exposure of this product to bees and other insect pollinators when they are foraging on pollinator attractive plants around the application site.
- Minimize drift of this product on to beehives or to off-site pollinator attractive habitat. Drift of this product onto beehives or off-site to pollinator attractive habitat can result in bee kills.

Information on protecting bees and other insect pollinators may be found at the Pesticide Environmental Stewardship website at:

<http://pesticidestewardship.org/PollinatorProtection/Pages/default.aspx>.

Pesticide incidents (for example, bee kills) should immediately be reported to the state/tribal lead agency. For contact information for your state, go to: [www.aapco.org/officials.html](http://www.aapco.org/officials.html).

Pesticide incidents should also be reported to the National Pesticide Information Center at: [www.npic.orst.edu](http://www.npic.orst.edu) or directly to EPA at: [beekill@epa.gov](mailto:beekill@epa.gov)

## 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 application. For any requirement specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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

Treat surfaces to ensure thorough coverage but avoid runoff.

To treat insects harbored in voids and cracks-and-crevices, applications must be made in such a manner to limit dripping and avoid runoff onto untreated structural surfaces and plants.



Do not apply LIBERTY IMIDACLOPRID BIFENTHRIN 2/1 SC INSECTICIDE while bees are foraging. Do not apply LIBERTY IMIDACLOPRID BIFENTHRIN 2/1 SC INSECTICIDE to plants that are flowering. Only apply after all flower petals have fallen off.

For both indoor and outdoor use.

All outdoor spray applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:

1. Application to pervious surfaces such as soil, lawn, turf, and other vegetation;
2. Perimeter band treatments of 7 feet wide or less from the base of a man-made structure to pervious surfaces (e.g., soil, mulch, or lawn).

For soil or foliar applications, do not apply by ground within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries and commercial fish farm ponds. Spot treatments must not exceed two square feet in size (for example, 2 ft. by 1 ft. or 4 ft. by 0.5 ft.).

Do not apply the product into fish pools, ponds, streams, or lakes. Do not apply directly to sewers or storm drains, or to any area like a drain or gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur.

Do not allow the product to enter any drain during or after application.



Do not allow to enter indoor or outdoor drains. Follow proper disposal procedures on this label. No permita la entrada a desagües internos o externos. Siga las indicaciones del etiquetado para el desecho apropiado del producto.

Do not apply or irrigate to the point of runoff.

Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack-and-crevice treatment.

Do not make applications during rain. Avoid making applications when rainfall is expected before the product has sufficient time to dry (minimum 4 hours).

Except for uses that require watering-in, rainfall within 24 hours after application may cause unintended runoff of pesticide application.

Do not apply when the wind speed is greater than 15 mph.

Do not apply more than 1.9 pints (0.47 lb. of imidacloprid active ingredient, 0.23 lb. bifenthrin) per acre or 0.70 fluid ounce per 1,000 square feet per year of product to turf.

## PRODUCT INFORMATION

This product controls or suppresses a wide spectrum of insects and mites on turfgrass, trees (including non-bearing fruit and nut trees), shrubs, evergreens, flowers, ground covers, bedding plants and foliage plants at and/or around residential dwellings (single and multi-family), office, commercial, shopping and institutional buildings and complexes, grounds, parks, recreational areas, athletic fields, playgrounds, airports, cemeteries, lawns and interior landscapes. (Non-bearing crops are perennial crops that will not produce a harvestable raw agricultural commodity during the season of application.) This product mixes readily with water and other aqueous carriers.

Some insects can develop resistance to products used repeatedly for their control. Because the development of resistance by an insect to an insecticide cannot be predicted, use this product according to established resistance management strategies. Consult your local or state pest management authorities for details.

If necessary, consult resources in horticulture in your area (such as your Cooperative Extension Service) to determine appropriate application timing and cultural practices to control different types of pests.

**RESTRICTIONS:** This product is not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. This product is not for use in commercial greenhouses, nurseries, or on grasses grown for seed, golf courses, turfgrass grown for sale (sod farms) or on commercial fruit and nut trees.

## APPLICATION FOR TURF PESTS

Use this product to control a wide range of pests of turfgrass. Because this product's active ingredients have long lasting residual activity, for control of subsurface feeders apply before the occurrence of egg laying activity. This product's active ingredients also have sufficient knockdown and residual activity to provide curative and residual control of surface feeding pests.

**RESTRICTIONS:** Do not apply more than 1.6 pints (0.40 lb. imidacloprid, 0.20 lb. bifenthrin) per acre or 0.60 fluid ounce per 1,000 square feet per application of product to turf. Do not apply more than 1.9 pints (0.47 lb. of imidacloprid active ingredient, 0.23 lb. bifenthrin) per acre or 0.70 fluid ounce per 1,000 square feet per year of product to turf.

Do not allow product to contact plants in bloom if bees are foraging in the treatment area.

### Applications Sites

Permitted sites include lawns, grounds and landscapes at and/or around residential dwellings (single and multifamily), office, commercial, shopping and institutional buildings and complexes, grounds, parks, recreational areas, athletic fields, playgrounds, airports and cemeteries. **New York State only: Do not apply solutions containing this product to grass or turf within 100 feet of a body of water (lake, pond, river, stream, wetland or drainage ditch).**

### Application Timing

The active ingredients in this product have sufficiently long-lasting residual activity that allows applications to be made prior to egg laying by the target pest(s). Optimum control of turf pests will be achieved when application is made prior to egg hatch followed by sufficient irrigation of rainfall to move the active ingredient through thatch and down into the underlying soil. Time applications based on past experiences at the site or in the area, current results of adult monitoring/trapping or other methods.

### **Post Application Watering and Mowing**

Optimum control is achieved if irrigation or rainfall occurs within 24 hours after application. Uniformity of application may be adversely affected if turf is mowed prior to irrigation/rainfall occurring.

### **Application Restrictions and Preparations**

Keep children and pets off treated areas until spray has dried.

Do not apply to turf that is frozen, waterlogged or is saturated with water. Turf in this condition will not allow the necessary vertical distribution of the active ingredient down into the soil.

This product can be mixed with other insecticides, miticides, fungicides and fertilizers. Follow the label directions of all the products mixed, making sure not to exceed the labeled application rate of any individual product in the mixture. Test any tank mixture that has not been tested before prior to full scale use by first mixing a small quantity of the mixture to ensure there is no physical or chemical incompatibility.

Because certain cultivars are sensitive to the final spray solution, test the effects of applications of different rates and volumes of mixed solution on a small patch of a type of grass (with observations over one week to detect the occurrence of negative effects) before application of solutions to large areas of that type of grass.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank mixture.

### **Applications Equipment and Methods**

Apply this product mixed in water (according to the table below) as a spray of uniform, coarse droplets at a pressure low enough to eliminate drift from the target area. Use properly calibrated application equipment to apply this product. Check calibration periodically to ensure that equipment is working properly.

#### **Reapplication**

Reapply in the event of high pest pressure. Reapply as necessary to achieve control using higher application rates as pest pressure and foliage area increases but make reapplications no more often than once every 7 days. **New York State only: Do make a single reapplication of this product if there is renewed insect activity, but not sooner than two weeks after first application.**

### **Turf Pest Application Use Rates**

Use rates for this product for turf pests are stated in fluid ounces of this product per 1,000 square feet and pints per acre. The application use rates listed below provide control of the listed pests under normal conditions. Apply this product at 0.15 to 0.60 fluid ounce per 1,000 square feet or 0.40 to 1.60 pints per acre, depending on the target pest. Use rates for specific pests within this range are given below. Use the higher application rates when maximum residual control is needed. However, applications of up to 0.60 fluid ounce per 1,000 square feet or 1.60 pints per acre are permitted at the first discretion of the applicator to control any pest. Do not apply more than 1.9 pints (0.47 lb. of imidacloprid active ingredient, 0.23 lb. bifenthrin) per acre or 0.70 fluid ounce per 1,000 square feet of product per year to turf.



### Turf Pests Groups by Use Rates

| Use Rate Ranges for the following Turf Pests Group  |  |   |
|---|--|---|
| <b>0.46 - 0.60 fluid ounce of this product per 1,000 square feet or 1.25 - 1.60 pints of this product per acre.</b>   |  |   |
| Annual bluegrass weevil,<br><i>Aphodius spp.</i><br>Asiatic garden beetle<br>Black turfgrass ataenius<br>Black vine weevil<br>European chafer<br>European crane fly | Fruit fly<br>Green June beetle<br>Imported Fire Ants<br>Japanese beetle<br>Mole crickets<br>Northern masked chafer | Nuisance ants<br>Oriental beetle,<br><i>Phyllophaga spp.</i><br>Southern masked chafer<br>Ticks |

| Use Rate Ranges for the following Turf Pests Group  |   |   |
|---|---|---|
| <b>0.15-0.60 fluid ounce of this product per 1,000 square feet or 0.40- 1.60 pints of this product per acre.</b>            |   |   |
| Annual bluegrass weevil,<br><i>Aphodius spp.</i><br>Armyworms<br>Banks grass mites<br>Billbugs<br>Chinch bugs<br>Centipedes | Crickets<br>Cutworms<br>Earwigs<br>Fleas<br>Grasshoppers<br>Leafhoppers | Mealybugs<br>Millipedes<br>Mites<br>Pillbugs<br>Sod webworms<br>Sowbugs |

1 fluid ounce = 2 tablespoons = 6 teaspoons. Do not use household utensils to measure this product.

#### Application Directions Against Specific Turf Pests

**Annual Bluegrass Weevil (*Hyperodes*) adults:** Time applications to control adult weevils as they leave their overwintering sites and move into grass areas. This movement generally begins when Forsythia is in full bloom and concludes when flowering dogwood (*cornus florida*) is in full bloom. Consult your Cooperative Extension Service for more specific information regarding application timing.

**Annual Bluegrass Weevil (*Listronotus maculicollis*) larvae:** Apply at the first sign of wilting of bluegrass. For the first generation, this wilting often occurs after full bloom of flowering dogwood (*Cornus florida*).

**Armyworms, Cutworms and Sod Webworms:** To ensure optimum control, delay watering (irrigation) or mowing for 24 hours after application. Use the highest application rate during periods of highest pest pressure if the grass is being maintained at a mowing height of 1 inch or greater.

**Billbug adults:** Apply when adults first appear in the spring or when chewed or brown grass indicates damage. Degree day models have been developed to optimize application timing. Consult your Cooperative Extension Service for information specific to your region. In temperate regions, spring applications targeting billbug adults will also provide control of over- wintered chinch bugs.

**Chinch Bugs:** Because they infest the base of grass plants, chinch bugs are often found in

the thatch layer. Irrigation of the grass or high volume applications of solution can increase penetration of the solution to where the chinch bugs are located. Chinch bugs can be one of the most difficult turf pest to control. Use high application rates to achieve effective control, particularly in the middle of the summer when both nymphs and adults are present.

**Mites:** To ensure optimal control of eriophyid mites, apply in combination with the labeled application rate of a surfactant. A second application, five to seven days after the first, may be necessary to achieve acceptable control.

**Flea larvae:** Flea larvae develop in the soil of shaded areas that are accessible to pets or other animals. Use a higher volume application when treating these areas to ensure penetration of the insecticide into the soil.

**Imported Fire Ants:** Combine broadcast treatments to control newly invading ants and mound treatments to eliminate existing ant colonies. If the soil is not moist, irrigate before application or use a high volume application. Apply broadcast treatments at 0.60 fluid ounce per 1,000 square feet. Treat mounds by diluting 0.10 fluid ounce (2/3 teaspoon) of this product per gallon of water and applying 1 to 2 gallons of finished spray per mound. Treat mounds with sufficient force to break their apex and allow the insecticide solution to flow into the ant tunnels. Treat a four foot diameter circle around the mound. For best results, apply in cool weather (65 - 80 °F) or in early morning or late evening hours. Food utensils such as teaspoons must not be used for food purposes after use in measuring pesticides.

**Mole Cricket adults:** Adult mole cricket control is difficult to attain because of continuous invasion during the early spring. Apply as late in the day as possible and water in with 0.5 inches of water immediately following treatment. Irrigating dry soil before application will bring crickets closer to the surface.

**Mole Cricket nymphs:** Treat grass areas that received intense adult mole cricket pressure in the spring immediately prior to peak egg hatch when young nymphs are located near the soil surface. Use higher application rates and more frequent applications to control larger, more damaging, nymphs later in the year. Water in with 0.5 inches immediately following applications made late in the day. Irrigating dry soil before application will bring crickets closer to the surface.

**Ticks (Including ticks that transmit Lyme Disease and Rocky Mountain Spotted fever):** Treat the entire area where exposure to ticks occurs. Avoid spot applications. Use higher spray volumes when treating areas with dense ground cover or heavy leaf litter. Ticks may be reintroduced from surrounding areas on host animals. Retreat to achieve and/or maintain control during periods of high pest pressure. Repeat application is necessary only if there are signs of renewed activity. Limit repeat application to no more than once per seven days.

**Deer ticks (*Ixodes sp.*)** have a complicated two year life cycle that involves four life stages. Apply in the late fall and/or early spring to control adult ticks that are usually located on brush or grass above the soil surface and in mid to late spring to control larvae and nymphs that reside in the soil and leaf litter.

American dog ticks commonly congregate along paths or roadways where humans are likely to be encountered. Apply from mid-spring to early fall to control their larvae, nymphs and adults.

### **Turf Application Volumes**

Apply the indicated amount of this product mixed in a volume of water sufficient to adequately distribute the active ingredient to the target area(s) and to wet all foliage.

Apply the calculated amount of this product in any volume of water provided the maximum

label rate is not exceeded. Do not exceed the maximum label rate by applying solution to an area smaller than intended when it was mixed and diluted unless such under dosing will not result in an application rate in excess of the maximum label rate.

### **Calculating Amounts to Mix for Turf Pests**

*To mix and apply any amount of this product for turf pests based on a number of square feet, determine:*

A = # of Square feet of area to be treated / 1,000 (for example 5,000 sq. ft. / 1,000 = 5.0)

B = Applicable Use Rate of this product (fluid ounces per 1,000 square feet) for the target pest(s) from the Use Rate Table. If treating for more than one type of pest, select the highest rate.

Calculate the amount of this product to mix for turf pests as follows:

Ounces of this product to use = A X B

Mix this amount of this product in the amount of water needed to make the application.

*To mix and apply any amount of this product for turf pests based on number of acres, determine:*

A = # of acres of areas to be treated = square feet of area to be treated / 43,560 (1 acre = 43,560 sq. ft.)

B = Applicable Use Rate of this product (pints per acre) for the target pest(s) from the Use Rate Table. If treating for more than one type of pest, select the highest rate.

Calculate the amount of this product to mix for turf pests as follows:

Pints of this product to use = A X B

Mix this amount of this product in the amount of water needed to make the application. 1

Pint = 16 ounces.

### **FOLIAR AND BROADCAST APPLICATION FOR PESTS OF ORNAMENTALS**

This product applied to foliage and broadcast on the soil, controls or suppresses a wide range of pests on trees (including non-bearing fruit and nut trees), shrubs, evergreens, flowers, ground covers, bedding plants and foliage plants including plants in interior landscapes. (Non-bearing trees are perennial plants that will not produce a harvestable agricultural commodity within the next 12 months.)

This product is a systemic insecticide meaning it can be translocated by the plant's vascular system from the roots up into the body of the plant. This means optimum effectiveness of this product is realized when this product is applied on or near a growing portion of the plant from which it may be translocated to other parts of the plant. Combine this product with a nitrogen containing fertilizer to accelerate or otherwise enhance the uptake of the active ingredient into the plant. Translocation of soil directed applications made to woody stemmed plants can be delayed by up to 60 days. For this reason, apply prior to anticipated pest infestation to achieve control. Foliar applications of this product also have local systemic activity against insect pests.

**RESTRICTIONS:** This product is not for use on plants being grown for sale, fruit, nut or commercial seed production or for research purposes.

For outdoor ornamentals, applications cannot exceed a total of 1.9 pints (0.47 lb. of imidacloprid and 0.23 lb. of bifenthrin) per acre per year.

Refer to and follow the pollinator restrictions under the Directions for Use.

### **Application Sites**

For use on ornamental plants including but not limited to trees (including non-bearing fruit and nut trees), shrubs, evergreens, flowers, ground covers, bedding plants and foliage plants including plants in interior landscapes.

### **Application Preparation**

This product can be mixed with other insecticides, miticides, fungicides and fertilizers. Follow the label directions of all the products mixed, making sure not to exceed the labeled application rate of any individual product in the mixture. Test any tank mixture that has not been tested before prior to full scale use by first mixing a small quantity of the mixture to ensure there is no physical or chemical incompatibility.

### **FOLIAR APPLICATION**

#### **Ornamental Application to Control Ants**

Use this product to indirectly control ants when applied to control aphids, scale insects, mealybugs and other sucking insects on ornamentals thereby limiting the amount of honeydew available.

#### **Foliar Application Volumes and Application Methods**

This product mixes readily with water and can be used in many types of application equipment. Mix required amount of product (from the table below) with the amount of water required to uniformly wet foliage and apply as directed dependent upon the selected use pattern. Add a spreader/sticker when making foliar applications on hard to wet foliage such as holly, pine, or ivy. If concentrate or mist type spray equipment is used, use an equivalent amount of product on the area sprayed, as would be used in a dilute application. Begin treatments prior to establishment of high pest populations. Reapply as needed.

#### **Foliar Application Use Rates**

Use rates for this product for foliar application for ornamental pests are stated in fluid ounces (and millimeters) of this product per 100 gallons of water. The application rates listed below provide control of the listed pests under normal conditions. Apply this product at 2.4 to 7.7 fluid ounces per 100 gallons, depending on the target pests. Use rates for specific pests within this range are given below. Use the higher application rates when maximum residual control is needed. However, applications of up to 7.7 fluid ounces per 100 gallons are permitted at the discretion of the applicator to control any pest.

| <b>Use Rate Ranges for the following Ornamental Pests Group by Foliar Application</b>  |   |  |
|--|---|--|
| <b>7.7 fluid ounces of this product per 100 gallons of water or 225 ml of this product per 100 gallons of water.</b>                                 |   |  |
| Ants<br>Beet Armyworm<br>Black vine weevil adult<br>Broad mites<br>Budworms<br>Scale crawlers<br>Citrus thrips<br>Clover mites<br>Diaprepes (adults) | European red mites<br>Flea beetles<br>Fungus gnats (adults)<br>Grasshoppers<br>Leaf rollers<br>Mites<br>Mosquitos<br>Orchid weevil<br>Pine needle scales (crawlers) | Plant bugs<br>San Jose scale (crawlers)<br>Spider Mites<br>Thrips<br>Tip moths<br>Twig borers<br>Wasps |

| <b>Use Rate Ranges for the following Ornamental Pests Group by Foliar Application</b>   |  |  |
|---|--|--|
| <b>3.8-7.7 fluid ounces of this product per 100 gallons of water or 112.5- 225 ml of this product per 100 gallons of water.</b> |  |  |
| Bagworms<br>Cutworms  | Fall webworms<br>Gypsy moth caterpillars | Leaf feeding caterpillars<br>Tent caterpillars |

| <b>Use Rate Ranges for the following Ornamental Pests Group by Foliar Application</b>   |   |   |
|---|---|---|
| <b>2.4 -7.7 fluid ounces of this product per 100 gallons of water or 72 -225 ml of this product per 100 gallons of water.</b> |   |   |
| Adelgids<br>Aphids<br>Japanese beetles<br>Lace bugs<br>Leaf beetles (including elm and viburnum leaf beetles)                 | Leafhoppers (including glassy-winged sharpshooter)<br>Mealybugs<br>Psyllids | Sawfly larvae<br>Thrips (suppression)<br>Treehoppers<br>White flies |

1 fluid ounce = 2 tablespoons = 6 teaspoons. Do not use household utensils to measure this product.

### **BROADCAST APPLICATION**

#### **Broadcast Application Volumes and Application Methods**

Mix required amount of product in a quantity of water sufficient to uniformly treat area. Use a minimum of 2 gallons of water per 1,000 square feet. To achieve control, irrigate treated area in order to incorporate treatment into upper level of soil.

Do not exceed the maximum label rate by applying solution to an area smaller than intended when it was mixed and diluted unless such under dosing will not result in an application rate in excess of the maximum label rate.

For outdoor ornamentals, broadcast applications cannot exceed a total of 1.9 pints (0.47 lb. of imidacloprid and 0.23 lb. of bifenthrin) per acre or 0.70 fluid ounces per 1,000 square feet per year.

### Broadcast Application Use Rates

Use rates for this product for broadcast application for ornamental pests are stated in fluid ounces (and millimeters) of this product per 1,000 square feet. The application rates listed below provide control of the listed pests under normal conditions. Apply this product at 0.15 to 0.60 fluid ounces per 1,000 square feet, depending on the target pest. Use rates for specific pests within this range are given below. Use the higher application rates when maximum residual control is needed.

| <b>Use Rate Ranges for the following Ornamental Pests Group by Broadcast Application</b>                                |                    |               |
|---|--------------------|---------------|
| <b>0.46-0.60 fluid ounces of this product per 1,000 square feet or 14- 18 ml of this product per 1,000 square feet.</b> |                    |               |
| White grub larvae (such as Japanese beetle larvae, Chafers, Phyllophaga spp., Asiatic garden beetle, Oriental beetle)   | Imported Fire Ants | Nuisance Ants |

| <b>Use Rate Ranges for the following Ornamental Pests Group by Broadcast Application</b>                                  |                                  |                          |
|---|----------------------------------|--------------------------|
| <b>0.15-0.30 fluid ounce of this product per 1,000 square feet or 4.30-9.40 ml of this product per 1,000 square feet.</b> |                                  |                          |
| Centipedes<br>Crickets<br>Earwigs   | Pillbugs<br>Sowbugs<br>Armyworms | Cutworms<br>Sod webworms |

1 fluid ounce = 2 tablespoons = 6 teaspoons. Do not use household utensils to measure this product.

### SOIL INJECTION AND SOIL DRENCH FOR ORNAMENTAL PESTS

This product, applied as a soil drench or soil injection, controls or suppresses a wide range of insects on trees (including non-bearing fruit and nut trees), shrubs, evergreens, flowers, foliage plants, ground covers and interior landscapes. (Non-bearing trees are perennial plants that will not produce a harvestable agricultural commodity within the next 12 months.)

This product is a systemic insecticide meaning it can be translocated by the plant's vascular system from the roots up into the body of the plant. This means optimum effectiveness of this product is realized when this product is applied on or near a growing portion of the plant from which it may be translocated to other parts of the plant. Combining this product with a nitrogen containing fertilizer will accelerate or otherwise enhance the uptake of the active ingredient into the plant. Translocation of soil directed applications made to woody stemmed plants can be delayed by up to 60 days. For this reason, apply prior to anticipated pest infestation to achieve optimum levels of control.

Applications to trees for the control of existing borer infestations may not prevent the eventual loss of the tree due to existing damage already caused by the pest and stress to the tree caused by the pest infestation.

**RESTRICTIONS:** This product is not for use on plants being grown for sale, fruit, nut or commercial seed production or for research purposes.

### Application Sites

For use on ornamental plants including trees (including non-bearing fruit and nut trees), shrubs, evergreens, flowers, ground covers, bedding plants and foliage plants including plants in interior landscapes.

### Application Preparation

This product can be mixed with other insecticides, miticides, fungicides and fertilizers. Follow the label directions of all the products mixed, making sure not to exceed the labeled application rate of any individual product in the mixture. Test any tank mixture that has not been tested before prior to full scale use by first mixing a small quantity of the mixture to ensure there is no physical or chemical incompatibility.

| Ornamental Pests Controlled by Soil Injection or Drench Application   |  |  |
|---|--|--|
| Adelgids<br>Aphids<br>Armored scales (suppression)<br>Black vine weevil larvae<br>Eucalyptus longhorned borer<br>Flatheaded borers (including borer and alder<br>Japanese beetles | Lace bugs<br>Leaf beetles (including elm<br>viburnum leaf beetles)<br>Leafhoppers (including<br>sharpshooter)<br>Leafminers<br>Mealybugs<br>Pine tip moth larvae | Psyllids<br>Royal palm bugs<br>Sawfly larvae<br>Soft scales<br>Thrips (suppression)<br>White grub larvae<br>Whiteflies |

### SOIL INJECTION FOR TREES

**Soil injection is not allowed in Nassau and Suffolk Counties of New York.**

| Soil Injection Use Rate for Trees   |
|---|
| 0.16 to 0.32 fluid ounce per inch of trunk diameter (D. B. H.)<br>/ 5 to 10 milliliters per inch of trunk diameter (D. B. H.) |

#### Soil Injection Volumes and Application Method for Trees

Mix the calculated amount of this product in the amount of water determined to be adequate for the treatment to be adequately dispersed. Apply at a low pressure according to one of the two following methods. Make a minimum of 4 injection holes per tree. For control, maintain a high level of soil moisture in the treated area for 7 to 10 days after treatment.

**Grid Injection:** Evenly space holes on 2.5 foot centers in a grid pattern in the soil beneath the tree's branches/foliage out to the tree's drip line.

**Basal Injection:** Evenly space injection holes around the base of the tree no more than 12 inches out from the tree.

**Circle System:** Apply in holes evenly spaced in circles, (use more than one circle dependent upon the size of the tree) beneath the drip line of the tree extending in from that line.

### SOIL DRENCH FOR TREES

| Soil Drench Use Rate for Trees  |
|---|
| 0.16 to 0.32 fluid ounce per inch of trunk diameter (D. B. H.)<br>/ 5 to 10 milliliters per inch of trunk diameter (D. B. H.) |

#### Soil Drench Volume and Application Method for Trees

Mix the calculated amount of this product in the amount of water determined to be adequate for the solution to be adequately dispersed. Apply solution at a rate of no less than 10 gallons per 1,000 square feet around the base of the tree directed to the root zone.

If present, remove any barrier to the movement of the solution into the soil such as a plastic vapor barrier.

### **SOIL INJECTION FOR SHRUBS**

**Soil injection is not allowed in Nassau and Suffolk Counties of New York**

| <b>Soil Injection Use Rate for Shrubs</b>   |
|---|
| 0.16 to 0.32 fluid ounce per foot of shrub height<br>/ 5 to 10 milliliters per foot of shrub height |

#### **Soil Injection Volume and Application Method for Shrubs**

Mix the calculated amount of this product in the amount of water determined to be adequate for the treatment to be adequately dispersed. Apply to individual plants using dosage indicated at a low pressure, making a minimum of 4 injection holes per shrub. For optimum control, maintain a high level of soil moisture in the treated area for 7 to 10 days after treatment.

### **SOIL DRENCH FOR SHRUBS**

| <b>Soil Drench Use Rate for Shrubs</b>  |
|---|
| 0.16 to 0.32 fluid ounce per foot of shrub height<br>/ 5 to 10 milliliters per foot of shrub height |

#### **Soil Drench Volumes and Application Method for Shrubs**

Mix the calculated amount of this product in the amount of water determined to be adequate for the solution to be adequately dispersed, but at a rate no less than 10 gallons per 1,000 square feet around the base of each shrub directed to the root zone. If present, remove any barrier to the movement of the solution into the soil such as a plastic vapor barrier.

#### **Soil Incorporation for Flowers and Groundcovers**

Apply as a broadcast treatment and incorporate into the soil before planting or apply prior to bloom or after all petals have fallen off for established plants. If application is made to established plants, optimum control will be attained if area is irrigated thoroughly after application.

| <b>Soil Incorporation Use Rate for Flowers and Groundcovers</b>                              |
|--|
| 0.46- 0.60 fluid ounces per 1,000 square feet<br>/ 14to 18 milliliters per 1,000 square feet |

### **RESTRICTIONS**

Do not graze treated areas or use clippings from treated areas for feed or forage.

Avoid runoff or puddling of irrigation water following application.

Do not apply by air.

Do not apply by any type of irrigation system.



## STORAGE AND DISPOSAL

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

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

Handle and open container in a manner as to prevent spillage. If container is leaking, invert to prevent leakage. If container is leaking or if material is spilled for any reason or cause, carefully contain any spilled material to prevent non-target contamination. Do not walk through spilled material and dispose of as directed for pesticides below. Absorb spilled material with absorbing type compounds and dispose of as directed for pesticides below.

Refer to Precautionary Statements on label for hazards associated with the handling of this material. In spill or leak incidents, keep unauthorized people away. You may contact Chemtrec at 1-800-424-9300.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Do not pour or dispose down-the-drain or sewer. Call your local solid waste agency for local disposal options

### [Nonrefillable Containers 5 Gallons or Less:]

**CONTAINER DISPOSAL: Nonrefillable container.** Do not reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration. Do not burn unless allowed by state and local ordinance If burned stay out of smoke.

### [Nonrefillable containers larger than 5 Gallons:]

**CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container.** Offer for recycling if available. If recycling or reconditioning is not available, puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration. Do not burn unless allowed by state and local ordinance. If burned stay out of smoke. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

**Triple rinse as follows:** Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

**Pressure rinse as follows:** Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

### [Refillable containers]

**CONTAINER HANDLING [DISPOSAL]: Refillable container.** Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

### [Refillable For return to Liberty:]

**CONTAINER HANDLING [DISPOSAL]: Refillable Container.** Refill this container with pesticide only. Do not reuse this container for any other purpose. Close all openings and replace all caps. Contact Liberty's Customer Service Department to arrange for return of the empty refillable container.

## **CONDITION 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 must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of LIBERTY CROP PROTECTION, LLC or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold LIBERTY CROP PROTECTION, LLC and Seller harmless for any claims relating to such factors.

LIBERTY CROP PROTECTION, LLC 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 LIBERTY CROP PROTECTION, LLC, and Buyer and User assume the risk of any such use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, LIBERTY CROP PROTECTION, LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

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