



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505T)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

83529-245

Date of Issuance:

8/16/24

NOTICE OF PESTICIDE:

☒ Registration  
☐ Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Sharda Clothianidin 24.7% +  
Bifenthrin 12.3%

Name and Address of Registrant (include ZIP Code):

Sharda USA, LLC  
c/o SynTech Regulatory  
7217 Lancaster Pike, Suite A  
Hockessin, DE 19707

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.


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

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

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.

*Continues page 2*

<b>Signature of Approving Official:</b>  Venus Eagle, Product Manager 01 Invertebrate and Vertebrate Branch 3, Registration Division	<b>Date:</b>  8/16/24
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EPA Form 8570-6

2. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 83529-245."
3. If, after formal consultation with the appropriate Service(s), additional modifications are identified in the Service's Biological Opinion(s) for clothianidin, EPA will notify Sharda USA, LLC in writing consistent with the terms in the Biological Opinion of any necessary required changes. Sharda USA, LLC must submit an application for amendment incorporating any required changes, including amended labels, consistent with the timeline specified in EPA's notification. If Sharda USA, LLC fails to comply with this term, Sharda USA, LLC has agreed in prior written acceptance on June 12, 2023 of these terms that EPA may cancel the registration under an expedited process under FIFRA 6(e).
4. Submit one copy of the final printed label for the record before you release the product for shipment.

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 FIFRA 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) lists 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.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. The record for this product currently contains the following CSF(s):

- Basic CSF dated 8/5/2022

If you have any questions, please contact Marianne Lewis at [lewis.marianne@epa.gov](mailto:lewis.marianne@epa.gov).  
Enclosure

[MASTER LABEL]

**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 Certified Applicator's Certification.

CLOTHIANIDIN	GROUP	4A	INSECTICIDE
BIFENTHRIN	GROUP	3A	INSECTICIDE

# Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC

For Contact and Systemic Insect Pest Control in Turf And Landscape Ornamentals, and Ornamental Trees (Including Non-Bearing Fruit Trees) on Golf Courses, Lawns and Around Residential, Institutional, Public, Commercial and Industrial Buildings, Parks, Recreational Areas, Athletic Fields, and Sod Farms.

**ACTIVE INGREDIENTS:**

Clothianidin: (E)-1-(2-chloro-1,3-thiazol-5-ylmethyl)-3-methyl-2-nitroguanidine ..... 24.7%  
Bifenthrin: (2-methyl[1,1'-biphenyl]-3-yl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethyl-cyclpropanecarboxylate ..... 12.3%

**OTHER INGREDIENTS:** ..... 63.0%

**TOTAL:** ..... 100.0%

Contains 2.22 lbs. of Clothianidin and 1.10 lbs. of Bifenthrin per gallon.

## KEEP OUT OF REACH OF CHILDREN

## WARNING/AVISO

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

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• <b>DO NOT</b> induce vomiting unless told to do so by a poison control center or doctor.</li><li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li></ul>
IF INHALED:	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
IF IN EYES:	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. For emergency information concerning this product, call your poison control center at <b>1-800-222-1222</b> .	
NOTE TO PHYSICIAN	
This pesticide contains a pyrethroid. If significant quantities have been swallowed, promptly eliminate the ingested quantities from the stomach and intestines. Treatment is symptomatic and supportive. Alcohol, milk, cream and other digestible fats and oils should NOT be administered as they may increase absorption.	

[Optional referral statements when booklets and container labels are used:]

[See label booklet for [additional] [complete] First Aid, [Precautionary Statements,] [Directions For Use,] and Storage and Disposal.]

EPA Reg. No. 83529-XXX

Manufactured for:

**Sharda USA LLC** 

7217 Lancaster Pike, Suite A  
Hockessin, Delaware 19707

**ACCEPTED**

08/16/2024

Under the Federal Insecticide, Fungicide  
and Rodenticide Act as amended, for the  
pesticide registered under  
EPA Reg. No. 83529-245

EPA Est. No. XXXXX-XX-XXX

Net Contents: \_\_\_\_\_ [Gals./L]

Lot No.:

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### WARNING

May be fatal if swallowed. Harmful if inhaled. Harmful if absorbed through skin. Causes moderate eye irritation. Avoid breathing spray mist or vapor. Avoid contact with skin, eyes, or clothing.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves made out of: barrier laminate, butyl rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, polyvinyl chloride  $\geq$  14 mils, or viton  $\geq$  14 mils

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, 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/PPE 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 product is extremely toxic to fish and aquatic invertebrates. To protect the environment, **DO NOT** allow pesticide to enter or run off into storm drains, drainage ditches, gutters, or surface waters.

Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage systems. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. **DO NOT** apply where runoff is likely to occur.

This product is toxic to bees exposed to treatment and for more than 5 days following treatment. **DO NOT** apply this product to blooming, pollen-shedding or nectar-producing parts of plants if bees may forage on the plants during this time period, unless the application is made in response to a public health emergency declared by appropriate State or Federal authorities.

## 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>

Pesticide incidents (for example, bee kills) must immediately be reported to the State/Tribal lead agency. For contact information for your State, go to: [www.aapco.org](http://www.aapco.org). Pesticide incidents must 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

### RESTRICTED USE PESTICIDE

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

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

**DO NOT** apply this product in any 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.

See individual crops/use sites for specific pollinator protection application restrictions. If none exist under the specific crop/use sites, for foliar applications, follow these application directions for crops that are for food/feed and commercially grown ornamentals that are attractive to pollinators and for non-agricultural uses:



#### **FOR FOOD CROPS AND COMMERCIALY GROWN ORNAMENTALS NOT UNDER CONTRACT FOR POLLINATION SERVICES BUT ARE ATTRACTIVE TO POLLINATORS:**

This product is toxic to bees exposed to treatment for more than 5 days following treatment. **DO NOT** apply this product to blooming, pollen-shedding or nectar producing parts of plants if bees may forage on the plants during this time period.



#### **NON-AGRICULTURAL USES:**

**DO NOT** apply **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** while bees are foraging. **DO NOT** apply **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** to plants that are flowering.

1. Only apply **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** after all flower petals have fallen off.

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

1. Treatment to soil or vegetation around structures; and
2. Applications to lawns, turf, and other vegetation.

#### **AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions on this label about personal protective equipment (PPE) notification to workers and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**DO NOT** enter or allow entry into treated areas during the restricted-entry interval (REI) of **12 hours**.

PPE required for early entry into treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, including plants, soil, or water is:

- Coveralls
- Shoes plus socks
- Chemical-resistant gloves

#### **NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in the 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 (including sod farms) and forests.

Keep children and pets off treated area until the spray has dried.

#### **PRODUCT INFORMATION**

**Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** is a long-lasting contact and systemic insecticide for control of listed insects infesting turfgrass and ornamentals in landscapes and surrounding areas. **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** can be used around residences, business complexes, industrial complexes, airports, playgrounds, school yards, parks and recreation areas, athletic fields, golf courses, cemeteries, and arboretums. **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** can be used on commercial sod farms.

#### **Restrictions:**

- Not for residential use.
- **DO NOT** apply to any impervious surfaces.
- **DO NOT** allow children or pets on treated surfaces until spray has dried.
- **DO NOT** apply by air.
- **DO NOT** water the treated area to the point of runoff.

- **DO NOT** make applications during rain.
- **DO NOT** apply through any type of irrigation system.
- Application is prohibited directly into sewers or drains, or to any area like a 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** apply within a 25-foot radius of the following: Lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds.
- **DO NOT** apply on the following: Commercial nurseries, commercial greenhouses and grass grown for seed.
- **DO NOT** mow until after irrigation or rainfall has occurred.
- **DO NOT** apply this product, by any application method, to linden, basswood, or other *Tilia* species.

#### INSECT RESISTANCE MANAGEMENT

For resistance management, please note that **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** contains both a Group 4A (clothianidin) and Group 3A (bifenthrin) insecticides. Any insect population may contain individuals naturally resistant to **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** and other Group 4A and 3A insecticides. The resistant individuals may dominate the insect population if these insecticides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance, take the following steps:

- Rotate the use of **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** or other Group 4A and 3A insecticides within a growing season, or among growing seasons, with different groups that control the same pests.
- Use tank mixtures with insecticides from a different group that are equally effective on the target pest when such use is permitted. Do not rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture.
- In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
  - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
  - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
  - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
  - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
  - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological, and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance, contact Sharda USA LLC at [ShardaUSA.com](https://www.ShardaUSA.com).

#### PREPARATION OF SPRAY MIXTURES AND APPLICATION

Begin with clean equipment. Add sufficient clean water to the spray tank for one-half of the mix load. Start tank agitation. Add the necessary amount of **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** before adding any other products. Agitate to ensure thorough mixing while adding the remaining water. Maintain agitation during mixing and application. Apply with properly calibrated spray equipment. If agitation is stopped for any reason the spray solution must be thoroughly remixed prior to any further use.

Use sufficient water volume to provide uniform coverage of the turfgrass and ornamental plants. For control of listed surface insects, **DO NOT** water in until at least 48 hours after the application. If the target insects are in the thatch, either apply **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** in enough spray volume to wet the thatch or lightly water in after application with enough water to wet the thatch zone.

For control of existing grub populations, water in after application with enough water to move the insecticide into the root zone where the grubs are feeding. 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.

#### APPLICATION INSTRUCTIONS

##### SOD PRODUCTION AND TURFGRASS

**Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** can be used for control of listed insects on lawns. **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** can be used around residences, business complexes, industrial complexes, airports, playgrounds, school yards,



parks and recreation areas, athletic fields, golf courses, cemeteries, arboretums, and sod farms.

**Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** has sufficient contact and residual activity to provide high levels of control. The need for an application can be based on historical monitoring of the presence of or anticipated occurrence of individual or multiple insect pest species, the site, previous records or experiences, current season adult trapping or other methods. Optimum control of white grubs will be achieved when applications are made just prior to egg laying or to early instar larvae of target pests, followed by sufficient irrigation or rainfall to move the active ingredient into the zone where the insect pests are active. Multiple applications can be made each growing season but **DO NOT** use more than 23.3 fl. oz. (0.4 lb. clothianidin a.i., 0.2 lb. bifenthrin a.i.) of **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** per acre per calendar year. **Note:** You may also use additional products containing bifenthrin as long as the maximum amount of bifenthrin does not exceed 0.4 lb. a.i. per acre per calendar year.

Apply **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** to turfgrass at 11.65 - 23.3 fl. oz. per acre per calendar year (0.27 - 0.54 fl. oz. per 1,000 sq. ft.). The rate is dependent on the target pest(s), their stage of development and the desired level of control. Optimum control of white grubs (larvae) will be achieved when applications are made just prior to or just after peak egg laying. Use the higher rates within the rate range when long residual control is desired for control of multiple insect pests or late season applications are made to turf already showing grub damage. Multiple applications can be made but **DO NOT** exceed the maximum amount per calendar year (23.3 fl. oz./A or 0.54 fl. oz. per 1,000 sq. ft.). Consult your local State Agricultural Experiment Station, State Extension Turf Specialists, or other turf experts for specific information concerning the timing of applications.

For early season control of listed insect pests (including annual bluegrass weevil) and for full season control of white grubs, make the first application of **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** at peak adult activity or when other insect pests reach a damaging population in the spring at a rate of 11.65 - 23.3 fl. oz. per acre (0.27 - 0.54 fl. oz. per 1,000 sq. ft.). For control of white grubs at standard application timing, apply 11.65 - 23.3 fl. oz. per acre (0.27 - 0.54 fl. oz. per 1,000 sq. ft.) just prior to peak adult activity or to early instar larvae.

For control of listed surface insects, **DO NOT** water in until at least 24 hours after the application. For control of the target insects that are in the thatch, use enough carrier volume to move the insecticide into the thatch or lightly water in after application with enough water to wet the thatch zone. For control of armyworms, cutworms and other surface feeders, apply 11.65 - 23.3 fl. oz. per acre (0.27 - 0.54 fl. oz. per 1,000 sq. ft.) at the first sign of insects or insect damage. Repeat applications up to a total of 23.3 fl. oz. per acre per calendar year (0.54 fl. oz. per 1,000 sq. ft.) to control additional flushes of insects.

For control of existing grub populations, irrigate after application with enough water to move the insecticide into the zone where the grubs are feeding.

#### Restrictions:

- **DO NOT** apply more than a total of 23.3 fl. oz. (0.4 lb. clothianidin a.i., 0.2 lb. bifenthrin a.i.) of **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** per acre per calendar year.
- If the maximum season limit of **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** has been applied and pest populations require additional treatments, use another registered pesticide labeled for control of the targeted insects that does not contain clothianidin. You may use additional products containing bifenthrin as long as the maximum amount of bifenthrin does not exceed 0.4 lb. a.i. per acre per calendar year.
- **DO NOT** allow this product to contact plants in bloom if bees are foraging the treatment area.
- **DO NOT** allow children and pets to enter the treated area until sprays have dried.
- **DO NOT** mow until after irrigation or rainfall has occurred.

SOD PRODUCTION AND TURFGRASS	
Insect Pest	Application Rate
Annual Bluegrass Weevil / Hyperodes (Adults) <sup>1</sup>	0.27 - 0.54 fl. oz. per 1,000 sq. ft. (11.65 - 23.3 fl. oz. per acre)
Annual Bluegrass Weevil / Hyperodes (Larvae) <sup>1</sup>	
Ants <sup>2</sup> , Nuisance (Excluding Fire, Harvester, Pharaoh and Carpenter Ants)	
Armyworms	
Billbugs <sup>3</sup>	
Black Turfgrass Ataenius <sup>4</sup>	
Chiggers	
Chinch Bugs	
Cutworms	
European Crane Fly	
Grasshoppers	
Leafhoppers	
Mole Crickets <sup>5</sup>	
Pillbugs	
Sod Webworms	
Sowbugs	
Spittle Bug	
Sugarcane Grub	
Ticks <sup>6</sup>	

White Grubs <sup>7</sup> (Asiatic Garden Beetle, European Chafer, Green June Beetle, Japanese Beetle, Northern Masked Chafer, <i>Phyllophaga</i> spp. (May or June Beetle), Oriental Beetle, Southern Masked Chafer)	
Fire Ants, Red Imported <sup>8[*]</sup>	<p><b>Control</b> 0.46 fl. oz. per 1,000 sq. ft. (20 fl. oz. per acre)</p> <p><b>Suppression</b> 0.33 fl. oz. per 1,000 sq. ft. (14.4 fl. oz. per acre)</p>
<p><sup>1</sup> <b>Annual Bluegrass Weevil:</b> Application can be timed for adult weevils as they move from their over-wintering sites into turf. This movement usually begins shortly after or when Forsythia is in full bloom and continues to full bloom of dogwoods. Larvae from adult weevils that escape the application will be controlled with the application directed at adult weevils. Applications made after adult weevil activity will control larvae. Consult your State Cooperative Extension Service for more specific information regarding timing of application. Full season control of white grubs will be obtained with an application of 14 fl. oz. per acre targeted towards Annual Bluegrass Weevil/Hyperodes.</p> <p><sup>2</sup> Applications of <b>Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC</b> in the late fall or early spring will reduce populations of nuisance ants on golf course fairways, greens, and residential lawns. Make an application in the fall before ants stop foraging or after they become active in the spring. For broadcast application, make the application and lightly water in to wet the turf and thatch area where ants are foraging.</p> <p><sup>3</sup> <b>Billbugs:</b> Application can be made when adult Billbugs are first observed, usually in April and May in temperate regions. A spring application will also control Billbug larvae. Consult your State Cooperative Extension Service for more specific information regarding timing of application. White Grubs will be controlled with an application targeted towards Billbugs.</p> <p><sup>4</sup> <b>Black Turfgrass Ataenius:</b> Application can be timed to coincide with the first generation of Black Turfgrass Ataenius that usually appears during May. White Grubs will be controlled with an application targeted towards Black Turfgrass Ataenius.</p> <p><sup>5</sup> <b>Mole Crickets:</b> Apply during peak adult flight and egg lay. If the soil is dry, irrigate before application to stimulate insect activity and water in lightly after application to move the insecticide into the zone where the mole crickets are active.</p> <p><sup>6</sup> <b>Ticks (including ticks that may transmit Lyme Disease and Rocky Mountain Spotted Fever):</b> Treat the entire area where exposure to ticks may occur. Use higher spray volumes when treating areas with dense groundcover or heavy leaf litter. Ticks may be reintroduced from surrounding areas on host animals.</p> <p><b>Deer Ticks (<i>Ixodes</i> sp.):</b> 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.</p> <p><b>American Dog Ticks (<i>Dermacentor</i> sp.):</b> These ticks commonly congregate along paths or roadways where humans are likely to be encountered. Apply from mid-spring to early fall to control American dog tick larvae, nymphs, and adults.</p> <p><sup>7</sup> <b>Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC</b> will control white grubs anytime applications are made when they are active from early spring to late fall. The residual activity of <b>Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC</b> is long enough to provide season long control of White Grubs when applied for control of listed early season insects including Annual Bluegrass Weevil, Billbugs, Nuisance Ants, or overwintering White Grubs.</p> <p><sup>8</sup> <b>Red Imported Fire Ants<sup>1</sup>!:</b> <b>For Mound Treatments:</b> If the soil is not moist, irrigate before application or use a high-volume application. Apply 1 teaspoon <b>Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC</b> per gallon of water (this is equivalent to 14.4 fl. oz. of <b>Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC</b> per acre applied in 87 gals. of water) and apply 1 - 2 gals. of finished spray per mound. The solution must be applied in such a manner to allow the solution to move into the mound. Also treat a 4-foot diameter circle around the mound. Apply in early morning or late evening hours when most of the foraging workers are in the colony. <b>For Broadcast Applications:</b> For suppression, apply 14.4 fl. oz. of <b>Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC</b> in at least 20 gals. of water per acre. Water in after application. If irrigation or rainfall is not expected within 48 hours of application, apply at least 50 additional gallons of water per acre. For control, apply 20 fl. oz. of <b>Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC</b> in at least 20 gals. of water per acre. Water in after application. If irrigation or rainfall is not expected within 48 hours of application, apply at least 50 additional gallons of water per acre.</p> <p>[*Not approved in California.]</p>	

#### LANDSCAPE ORNAMENTALS

**Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** is a contact and long-lasting systemic insect control product for listed insects infesting landscape ornamentals. **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** can be used around residences, business complexes, industrial complexes, airports, playgrounds, school yards, parks and recreation areas, athletic fields, golf courses, cemeteries, and arboretums.

For foliar applications, apply volume of spray solution to wet the surface of the leaves to the point of drip.

For control of listed surface insects and insects that crawl along the surface of the soil or mulch under ornamentals, water in lightly after application to move the insecticide into the areas where insects are active. Water in with enough irrigation or rainfall to move the active ingredient into the zone where the target insects are active. Soil surface applications will provide control of foliage feeding insects; however, optimum control will not be achieved until the active ingredient is taken up by the plant roots and translocated to the area where insects are feeding.

#### Restrictions:

- **DO NOT** apply more than a total of 23.3 fl. oz. of **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** (0.4 lb. clothianidin a.i., 0.2 lb. bifenthrin a.i.) per acre per calendar year.
- If the maximum season limit of **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** has been applied and pest populations require additional treatments, use another pesticide labeled for control of the targeted insects that does not contain clothianidin. You may also use additional products containing bifenthrin as long as the maximum amount of bifenthrin does not exceed 0.4 lb. a.i. per acre per calendar year.
- Follow application restrictions on this label, designated by the bee icon, to protect bees and other insect pollinators.

#### LANDSCAPE ORNAMENTALS



Foliar Insect Pests Controlled	Foliar Application	Application Instructions
Aphids Caterpillars Leafhoppers Mealybugs White Flies	3.6 - 15.5 fl. oz. per 100 gals. (5 - 22.5 fl. oz. per acre based on 150 gals. of spray per acre)	Target the spray towards the areas where the insects are active.  Use enough water carrier to wet the surfaces on the target plants to the point of drip.
Ants <sup>1</sup> Bagworms Back Vine Weevil (Adults) Brown Soft Scale Budworms California Red Scale (Crawlers) Chiggers Clover Mites Crickets Cutworms Earwigs Elm Leaf Beetles Flea Beetles Japanese Beetles (Adults) Plant Bugs Spiders Tent Caterpillars Tip Moths Weevils	5 - 15.5 fl. oz. per 100 gals. (7.5 - 22.5 fl. oz. per acre based on 150 gals. of spray per acre)	Repeat applications may be made if insects reappear but <b>DO NOT</b> exceed a total of 0.54 fl. oz. of <b>Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC</b> per 1,000 sq. ft. of landscape.
Adelgids Azalea Lace Bug Beetles Cicadas (Adults) Citrus Thrips <i>Diaprepes</i> (Adults) Florida Wax Scale Glassy-winged Sharpshooter Gypsy Moth Lace Bugs Leafminers Leafrollers Mites <sup>2</sup> Pine Needle Scales (Crawlers) Plant Bugs (incl. <i>Lieges</i> spp.) Scales, Soft	8 - 15.5 fl. oz. per 100 gals. (12 - 22.5 fl. oz. per acre based on 150 gals. of spray per acre)	
Soil Insect Pests Controlled	Soil Surface or Mulch Application	Application Instructions
Ants, Nuisance (Excluding Fire, Harvester, Pharaoh, and Carpenter Ants) Beet Armyworm Beetles Black Vine Weevils (Larvae) Centipedes Crickets Cutworms <i>Diaprepes</i> (Adults) Earwigs Fall Armyworms Grasshoppers Millipedes Pill Bugs White Grubs (Asiatic Garden Beetle, European Chafer, Green June Beetle, Japanese Beetle, Northern Masked Chafer, <i>Phyllophaga</i> spp. (May or June Beetle), Oriental Beetle, Southern Masked Chafer)	0.27 - 0.54 fl. oz. per 1,000 sq. ft. (11.65 - 23.3 fl. oz. per acre)	Apply in enough water to wet the areas where the insects are active or water in after applications with enough irrigation to move the insecticide into the areas where insects are active.  For ornamental trees and woody shrubs, see below.
Above Ground Insect Pests Controlled	Soil Surface or Mulch Application	Application Instructions
Aphids Azalea Lace Bug Black Vine Weevil (Adults) Borers* Caterpillars	0.34 - 0.54 fl. oz. per 1,000 sq. ft. (15 - 23.3 fl. oz. per acre)	Apply in enough water to wet the root zone of the plants. Control of leaf feeding insects will be delayed until the insecticide is taken up by the roots and moved into the areas where insects are feeding, usually 2 - 4 weeks.

Flea Beetles Florida Wax Scale Glassy-winged Sharpshooter Gypsy Moth Caterpillars Japanese Beetles (Adults) Leafhoppers Leafminers Leafrollers Mealybugs Plant Bugs (incl. <i>Lygus</i> spp.) Root Weevils (incl. Black Vine Weevils) Scales, Soft Whiteflies		For ornamental trees and woody shrubs see below.
<p>*For Bronze Birch Borers, Flatheaded Borers, and other borers (excluding Emerald Ash Borers and Asian Longhorned Beetles): Use a drench treatment around the trunk of the trees when the trees are actively growing. Mix 0.5 fl. oz. of <b>Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC</b> in 10 gals. of water and apply 2 qts. of the mixture per 1 inch DBH in a 1 - 2 ft. area around the trunks of the trees.</p> <p><sup>1</sup><b>Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC</b> will control aphids, scale insects, mealybugs and other sucking pests on ornamentals and limit the honeydew available as a food source for ant populations. Ants (excluding fire, harvester, carpenter, and pharaoh ants) present at the time of application will also be controlled.</p> <p><sup>2</sup><b>Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC</b> will provide suppression of broad Mites, Clover Mites, European Red Mites, and Spider Mites when used for control of other listed insects. Use a surfactant on hard to wet plants. The use of an alternate class of chemistry in a mite treatment program is recommended to prevent or delay development of bifenthrin resistant mite populations.</p>		

### Drench Application to Ornamental Trees and Woody Shrubs

**Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** can be used for systemic control of listed insects with an application to trees in landscapes adjacent to turf areas. **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** contains clothianidin which is systemic and will be translocated throughout the tree. Treat the area over the root zone of the trees or apply the insecticide in the "root well" of the plant.

Apply the insecticide in enough water to get uniform coverage and water in after application. **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** is a systemic product and will be translocated upward into the plant system from root uptake. It must be placed in an area where the roots can absorb the active ingredient. It may take 2 - 4 weeks for the active ingredient to move from the root zone to the areas of the trees affected. If insect pests are already present and causing damage, consider making a foliar application and then following up with a drench application.

For ornamental trees and shrubs adjacent to turf areas, use 0.06 - 0.12 fl. oz. of **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** per inch of cumulative trunk diameter (DBH) of the plant(s). For hedges 6 feet or less in height use 0.6 fl. oz. of **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** per 100 linear feet of hedge. For hedges greater than 6 feet in height use an additional 0.15 fl. oz. per 100 linear feet of hedge for each foot of hedge height over 6 feet. Before application remove any plastic or other barriers that may prevent the insecticide from reaching the root zone of the plants.

### Restriction:

- **DO NOT** apply more than a total of 23.3 fl. oz. (0.4 lb. clothianidin a.i., 0.2 lb. bifenthrin a.i.) of **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** per acre per calendar year.

### Nut Trees and Ornamental Trees (including Non-Bearing Fruit Trees) In Landscapes that are NOT for Food Use

Apply **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** when threshold populations are observed. **DO NOT** wait until large insect populations have been established. For foliar applications, apply **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** in sufficient water to ensure uniform and thorough coverage of foliage. Thorough coverage is required for listed insect control. To achieve optimum coverage, use proper spray pressures, nozzles, nozzle spacing and water volume per acre. For soil applications, apply as a soil surface spray to the entire root zone or as a banded spray to the tree well area.

### Restrictions:

- **DO NOT** consume fruit or nuts from these trees at any time.
- **DO NOT** apply more than a total of 23.3 fl. oz. (0.4 lb. clothianidin a.i., 0.2 lb. bifenthrin a.i.) of **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** per acre per calendar year.
- When using the rates for trees larger than 6 feet, apply only to the target root area as a surface spray or as a band treatment, **DO NOT** apply more than 23.3 fl. oz. (0.4 lb. clothianidin a.i., 0.2 lb. bifenthrin a.i.) per acre on the treatment site or property.
- **DO NOT** apply foliar treatments less than 10 days apart.
- **DO NOT** apply **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** through any type of irrigation system.
- For Foliar applications, apply **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** in a full coverage spray to the point of drip. The spray volume will depend on tree size and density of canopy. Repeat applications as needed to maintain control but **DO NOT** apply more often than every 10 days.

	APPLICATION RATES (POST-BLOOM APPLICATION)
Pest	Application Rate

Aphids Adelgids Leafhoppers Plum Curculio Apple Maggot Codling Moth <sup>1</sup> Oriental Fruit Moth <sup>1</sup> Spotted Tentiform Leafminer <sup>2</sup> Western Tentiform Leafminer <sup>2</sup> Obliquebanded Leafrollers Whiteflies (Suppression) <sup>2</sup>	<b>Soil Application (for trees under 6 feet tall):</b> 0.35 - 0.54 fl. oz. per 1,000 sq. ft.	<b>Foliar Application:</b> 8 - 15.5 fl. oz. per 100 gals.*
	<b>Soil Application (for trees over 6 feet tall):</b> 0.54 - 1.25 fl. oz. per 1,000 sq. ft.	

\*The amount of **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** per acre will depend on tree size, pest pressure and the volume of foliage present.

<sup>1</sup>To control Codling moth and Oriental fruit moth, apply **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** in a program of rotational sprays with other labeled insecticides. When using the foliar application rates of 8 - 15.5 fl. oz. per 100 gals. of **Sharda Clothianidin 24.7% + Bifenthrin 12.3% SC** to control Codling moth and/or Oriental fruit moth, **DO NOT** apply treatments less than a 14-day interval.

<sup>2</sup>For control of leafminers and leafrollers, apply as a soil application in early Spring when the soil is not frozen. A foliar application may result in suppression only and a repeat foliar application may be necessary to maintain control.

## STORAGE AND DISPOSAL

**DO NOT** contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in a cool, dry place away from excessive heat. Do not store near food, feed, fertilizers, seeds, or other pesticides. Keep this product out of reach of children and animals at all times. Store in original container only. Open the product container carefully and after use, seal tightly.

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

### CONTAINER HANDLING:

**[Plastic HDPE Containers Less Than or Equal to 5 Gallons]** Nonrefillable container. **DO NOT** reuse or refill this container. 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 ¼ 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 if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill or by other procedures allowed by State and local authorities.

**[Plastic HDPE Containers Greater Than 5 Gallons]** [Nonrefillable container. **DO NOT** reuse or refill this container. Triple 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 ¼ 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. Dispose of empty container in a sanitary landfill or by other procedures allowed by State and local authorities. Offer for recycling, if available.]

**[Plastic HDPE Containers For Bulk and Mini-Bulk Containers]** [Refillable container. Refill this container with pesticide only. **DO NOT** use 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 person refilling. To clean container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by State and local authorities.]

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**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 Sharda USA 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 Sharda USA LLC and Seller harmless for any claims relating to such factors.


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