



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

EPA Reg. Number:
 83529-243

Date of Issuance:
 4/8/24

NOTICE OF PESTICIDE:
 Registration
 Reregistration
 (under FIFRA, as amended)

Term of Issuance:
 Unconditional

Name of Pesticide Product:
 Sharda Clothianidin 23% SC II

Name and Address of Registrant (include ZIP Code):

Sharda USA, LLC
 c/o Wagner Regulatory Associates, Inc.
 P.O. Box 640
 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

Signature of Approving Official:

Venus Eagle, Product Manager 01
 Invertebrate and Vertebrate Branch 3, Registration Division

Date:

4/8/24

2. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 83529-243."
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.

Enclosure: Stamped label

[MASTER LABEL]

CLOTHIANIDIN GROUP 4A INSECTICIDE

Sharda Clothianidin 23% SC II

For Systemic Control of Listed Insects on Ornamental Plants, Non-Bearing Fruit and Nut Trees Grown in Field Nursery Plantings, Container Nurseries, Forest Nurseries, Greenhouses, Lath and Shade Houses, Interiorscapes and Sites Where Plants are Grown for Ornamental, Aesthetic and Climate Modification Purposes, and Turfgrass.

ACTIVE INGREDIENT:

Clothianidin: (E)-1-(2-chloro-1,3-thiazol-5-ylmethyl)-3-methyl-2-nitroguanidine 23.0%

OTHER INGREDIENTS: 77.0%**TOTAL:** 100.0%

Contains 2.13 lbs. active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION

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:**

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- **DO NOT** induce vomiting unless told to do so by a poison control center or doctor.
- **DO NOT** give anything by mouth to an unconscious person.

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 **1-800-222-1222**.

[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-EUG

EPA Est. No. XXXXX-XX-XXX

Manufactured for:

Sharda USA LLC7217 Lancaster Pike, Suite A
Hockessin, Delaware 19707Net Contents: _____ [Gals./L]
Lot No.:**ACCEPTED**

04/08/2024

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under

EPA Reg. No. 83529-243

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

Harmful if swallowed.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

All mixers, loaders, applicators, and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves including barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, natural rubber ≥ 14 mils, polyethylene, polyvinyl chloride ≥ 14 mils or viton ≥ 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 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 toxic to aquatic invertebrates. **DO NOT** apply when weather conditions favor drift from treated areas. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. **DO NOT** apply directly to water, or to areas where surface water is present or to intertidal areas below the mean highwater mark. **DO NOT** contaminate water when cleaning equipment or disposing of equipment wash waters or rinsate.


This product is very 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.

In the State of Florida: The properties of this chemical suggest it may leach into ground water if used in areas where soils are permeable and where the water table is very shallow. **DO NOT** apply within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes, natural ponds, estuaries, or commercial fish farm ponds.

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/pollinator-protection>

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. Pesticide incidents must also be reported to the National Pesticide Information Center at: www.npic.orst.edu or directly to EPA at: 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 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.

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

BEE HAZARD

See individual crops/use sites for specific pollinator protection application restrictions. If none exist under the specific crop/use site, 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 this product while bees are foraging. **DO NOT** apply this product to plants that are flowering.
- Only apply after all flower petals have fallen off.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions 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 this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forest, nurseries, or commercial greenhouses.

Keep children and pets off treated area until the sprays have dried.

PRODUCT INFORMATION

Sharda Clothianidin 23% SC II is a broad-spectrum insecticide, for control of a wide spectrum of insects infesting turfgrass, landscape ornamentals, interior plantscapes and non-bearing fruit (including apples and pears) and nut trees (in landscapes). When applied as directed, **Sharda Clothianidin 23% SC II** provides excellent and long residual insect control.

RESTRICTIONS

- **DO NOT** use a foliar application of clothianidin (**Sharda Clothianidin 23% SC II**) following a soil application of clothianidin.
- Regardless of application method, **DO NOT** apply more than 0.2 lb. a.i. clothianidin per acre per calendar year for all use sites, except for Turf and Landscape Ornamental uses, which are not to exceed 0.4 lb. a.i. per acre per calendar year.
- If the maximum limit (0.2 lb. a.i. clothianidin per acre per calendar year for all use sites except for Turf and Landscape Ornamental uses, which are not to exceed 0.4 lb. a.i. per acre per calendar year) has been applied and pest populations require additional treatments, use another registered pesticide that is not in the neonicotinoid class of chemistry.
- **DO NOT** apply by air.

PLANT TOLERANCE

Neither the manufacturer nor the seller has determined whether or not **Sharda Clothianidin 23% SC II** can be used safely on all cultivars of plants listed on the label. **Sharda Clothianidin 23% SC II** has been tested on many cultivars with no phytotoxicity observed at label rates. Since all plant species and their varieties and cultivars have not been tested for tolerance, it is recommended that a small number

of plants be sprayed to make certain that no phytotoxicity occurs, prior to any large-scale application to plants. The end user assumes all risks arising from application of **Sharda Clothianidin 23% SC II** in a manner inconsistent with its labeling.

Sharda Clothianidin 23% SC II can be tank mixed. However, all plant species and their varieties and cultivars have not been tested with possible tank mix combinations, sequential pesticide treatments and adjuvants and surfactants. Conduct a spray mix compatibility and phytotoxicity trial under local conditions to ensure compatibility prior to any large-scale use.

It is the pesticides 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.

INSECT RESISTANCE MANAGEMENT

Sharda Clothianidin 23% SC II contains clothianidin, classified in the neonicotinoids chemical class as a Group 4A insecticide, Nicotinic acetylcholine receptor (nAChR) agonists. Any insect population may contain individuals naturally resistant to **Sharda Clothianidin 23% SC II** and other Group 4A insecticides. The resistant individuals may dominate the insect population if this group of 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 23% SC II** or other Group 4A 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 <https://shardausa.com/>.

APPLICATION PROCEDURES

Foliar Application

Select spray nozzles which will provide accurate and uniform spray deposition. Use spray nozzles which provide medium sized droplets and reduce drift. To help ensure accuracy, calibrate sprayer before each use. For information on spray equipment and calibration, consult nozzle manufacturers and/or State and County Extension Service.

Apply **Sharda Clothianidin 23% SC II** using sufficient water volume to provide thorough and uniform coverage. In situations where a dense canopy exists and/or pest pressure is high, use greater water volumes. The use of a spray adjuvant may improve spray coverage. **DO NOT** make applications under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.

Application Through Irrigation Systems (Chemigation)

Sharda Clothianidin 23% SC II alone or in combination with other products which are registered for application through sprinkler irrigation may be applied through irrigation systems. Apply this product only through micro-irrigation (individual spaghetti tube), drip irrigation, overhead irrigation, or motorized calibrated irrigation equipment. **DO NOT** apply through any other type of irrigation system. Lack of effectiveness can result from non-uniform distribution of treated water. If you have questions about calibration, contact your State Extension Service specialist, equipment manufacturer or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments.

Using Water from Public Water Systems

- **DO NOT** apply **Sharda Clothianidin 23% SC II** through any irrigation system physically connected to a public water system.

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least

15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days per year. **Sharda Clothianidin 23% SC II** may be applied through irrigation systems which may be supplied by a public water system only if the water from the public water system is discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and to top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. Before beginning chemigation, always make sure that the air gap exists and that there is no blockage of the overflow of the reservoir tank.

Any irrigation system using water supplied from a public water system must also meet the following requirements:

Operating Instructions for All Specified Types of Irrigation Systems

1. The system must be calibrated to uniformly apply the rates specified. If you have questions about calibration, contact your State Extension Service specialist, equipment manufacturer or other experts.
2. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
3. The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.
4. The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
6. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
7. Systems must use a metering pump, including a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
8. **DO NOT** apply when wind speed favors drift beyond the area intended.

Calibration and Application Instructions

Apply **Sharda Clothianidin 23% SC II** under the schedule specified in the specific crop rates/instructions, not according to the irrigation schedule, unless the events coincide. In general, set the equipment to apply the minimum amount of water per acre. Run the system at 86% - 90% of the manufacturer's maximum rated travel speed.

The following calibration and application techniques are provided for user reference, but **DO NOT** constitute a warranty of fitness for application through sprinkler irrigation equipment.

Check with State and local regulatory agencies for potential use restrictions before applying any agricultural chemical through sprinkler irrigation equipment.

Center Pivot Irrigation Equipment

1. Use only drive systems that provide uniform water distribution.
2. **DO NOT** use end guns when chemigating **Sharda Clothianidin 23% SC II** through center pivot systems because of non-uniform application.
3. Plug the first nozzle closest to the well head to protect the water source.
4. Determine the size of the area to be treated.
5. Determine the time required to apply 0.1 - 0.25 inch of water over the area to be treated when the system and injection equipment are operated at normal pressures as recommended by the equipment manufacturer. Run the system at 80% - 95% of the manufacturer's rated maximum travel speed.
6. Using water, determine the injection pump output when operated at normal line pressure.
7. Determine the amount of **Sharda Clothianidin 23% SC II**, and any tank mix partners, required to treat the area covered by the irrigation system.
8. Add the required amount of **Sharda Clothianidin 23% SC II**, and any tank mix partners, and sufficient water to meet the injection time requirements to the solution tanks. (See **MIXING INSTRUCTIONS** section of this label.)
9. Make sure the system is fully charged with water before starting injection of the **Sharda Clothianidin 23% SC II** solution. Time the injection to last at least as long as it takes to bring the system to full pressure.
10. Maintain constant agitation in the solution tank during the injection period.
11. Inject the specified amount of **Sharda Clothianidin 23% SC II** per acre continuously for one complete revolution of the system.
12. Stop the injection equipment after treatment is complete. Continue to operate the system until the **Sharda Clothianidin 23% SC II** solution has cleared all of the sprinkler heads.
13. Allow time for all lines to flush the pesticide through all nozzles before turning off irrigation water.

Solid Set, Hand Move and Moving Wheel Irrigation Equipment

1. Determine the acreage covered by the sprinklers.
2. Fill injector solution tank with plain water and calibrate the flow rate of the system to deliver the contents of the tank over a 20 - 40 minute time interval.
3. Determine the amount of **Sharda Clothianidin 23% SC II** required to treat the area covered by the irrigation system.
4. Add the required amount of **Sharda Clothianidin 23% SC II**, and any other tank mix partners, into the same quantity of water used to calibrate the injection period. (See **MIXING INSTRUCTIONS** section of this label.)

- Operate the system at the same pressure and time interval established during the calibration.
- Inject specified amount of **Sharda Clothianidin 23% SC II** per acre for either a 20 - 40 minute period at the end of a regular irrigation set, or as a 20 - 40 minute injection as a separate application not associated with a regular irrigation to maximize retention of the insecticide by the foliage.
- Stop injection equipment after treatment is completed. Continue to operate the system until the **Sharda Clothianidin 23% SC II** solution has cleared the last sprinkler head. To ensure lines are flushed and free from remaining pesticides, a dye indicator may be injected into the lines to mark the end of the application period.

MIXING INSTRUCTIONS

- Begin with clean equipment.
- Add sufficient clean water to the spray tank for 1/2 of the mix load.
- Start tank agitation.
- Add and properly suspend the necessary amount of **Sharda Clothianidin 23% SC II** before adding any other products. Agitate to ensure thorough mixing while adding the remaining required water. A high-quality wetting agent or other spray adjuvant, approved for use on your crop, may be added to spray solutions according to the manufacturer's use instructions. Be sure to suspend and dilute **Sharda Clothianidin 23% SC II** properly prior to the addition of any adjuvant. Consult adjuvant label or manufacturer for crop tolerance and safety information when used with this product.
- Maintain agitation during mixing and application.
- Apply with properly calibrated spray equipment.

ORNAMENTALS

Sharda Clothianidin 23% SC II is for use on ornamentals in commercial and residential landscapes and interior plantscapes. To assure maximum effectiveness, good spray coverage of the target plant is essential. Application can be made by foliar application or soil applications including soil injection, drenches, and broadcast sprays. For control, make applications before pest infestation.

Apply **Sharda Clothianidin 23% SC II** when threshold populations are observed. **DO NOT** wait until population beyond threshold has been established. Apply **Sharda Clothianidin 23% SC II** in sufficient water to ensure uniform and thorough coverage of foliage. Thorough coverage is required for control. To achieve adequate coverage, use proper spray pressures, nozzles, nozzle spacing, and water volume per acre.

FOLIAR APPLICATION ON ORNAMENTALS			
Plants	Pests	Sharda Clothianidin 23% SC II Application Rates (per 100 gals. of water)	Rates /Instructions
Evergreens Flowers Foliage Plants Ground Covers Interior Plantscapes Shrubs Trees (including non-bearing fruit and nut)	Aphid	1.2 - 2.4 fl. oz. (0.020 - 0.040 lb. a.i.)	Uniformly apply the spray solution to the point of drip. Reapply as needed. The amount of spray solution needed per acre will depend on the ornamental size and the density of the leaf canopy. Choose lower rates for light infestations and/or smaller plants and higher rates for heavy infestations and/or larger plants. Apply at planting or after planting to established plants. DO NOT over water plants during first 10 days after application in order to limit leaching of pots. Drench or broadcast applications will provide control of foliage feeding insects, however, control will not be achieved until the product has been taken up by the plant roots and translocated to the area where the insects are feeding. If making broadcast applications, water in with enough irrigation or rainfall to move the product into the zone where insects are active. For drench applications, use enough water to move the product into the zone where the insects are active.
	Mealybug Whitefly	1.8 - 2.4 fl. oz. (0.030 - 0.040 lb. a.i.)	
Restriction:			
<ul style="list-style-type: none"> DO NOT exceed a total of 24 fl. oz. of Sharda Clothianidin 23% SC II (0.4 lb. a.i. clothianidin) per acre per calendar year. 			



DRENCH APPLICATION ON ORNAMENTALS IN POTS				
Plants in Containers	Pests	Sharda Clothianidin 23% SC II Application Rates	Container Size (Inches)	Number of Pots
Herbaceous Species (1 or 2 plants per pot)	Aphid	1.2 - 2.4 fl. oz. (0.020 - 0.040 lb. a.i.)	2	6,000
		3	4,000	
	Mealybug Whitefly	1.8 - 2.4 fl. oz. (0.030 - 0.040 lb. a.i.)	4	3,000
			5	2,400
			6	2,000
			7	1,700
			8	1,500
			9	1,350
			10	1,200
			11	1,100
			12	1,000
			Herbaceous Species (3 or more plants per pot) Woody Perennials	Aphid
3	2,680			
Mealybug Whitefly	1.8 - 2.4 fl. oz. (0.030 - 0.040 lb. a.i.)	4		2,000
		5		1,600
		6		1,320
		7		1,120
		8		1,000
		9		880
		10		800
		11		720
		12		640
		Instructions		
Mix the specified amount of product with a sufficient volume of water to evenly disperse the solution into the pots and to thoroughly wet the planting medium, without resulting in overflow or leaching and the loss of product. DO NOT over water plants during first 10 days after application in order to limit leaching of pots.				
Choose lower rates for light infestations and/or smaller plants and higher rates for heavy infestations and/or larger plants.				
Drench or broadcast applications will provide control of foliage feeding insects, however, control will not be achieved until the product has been taken up by the plant roots and translocated to the area where the insects are feeding.				
If making broadcast applications, water in with enough irrigation or rainfall to move the product into the zone where insects are active.				
For drench applications, use enough water to move the product into the zone where the insects are active.				
Restriction:				
<ul style="list-style-type: none"> DO NOT exceed a total of 24 fl. oz. of Sharda Clothianidin 23% SC II (0.4 lb. a.i. clothianidin) per acre per calendar year. 				

DRENCH APPLICATION ON ORNAMENTAL PLANTS GROWN IN FLATS, ON BENCHES OR IN BEDS		
Pests	Sharda Clothianidin 23% SC II Application Rates	Instructions
Aphid	1.2 - 2.4 fl. oz. per 7,500 sq. ft. (0.020 - 0.040 lb. a.i./7,500 sq. ft.)	Mix the specified amount of product with a sufficient volume of water to evenly disperse the solution to thoroughly wet the planting medium, without resulting in overflow or leaching and the loss of product. DO NOT over water plants during first 10 days after application in order to limit leaching. Choose lower rates for light infestations and/or smaller plants and higher rates for heavy infestations and/or larger plants.
Mealybug Whitefly	1.8 - 2.4 fl. oz. per 7,500 sq. ft. (0.030 - 0.040 lb. a.i./7,500 sq. ft.)	
Restriction:		
<ul style="list-style-type: none"> DO NOT exceed a total of 24 fl. oz. (0.4 lb. a.i.) of Sharda Clothianidin 23% SC II per acre per calendar year. 		

**NON-BEARING FRUIT AND NUT TREES
(IN LANDSCAPES WHICH ARE NOT INTENDED FOR USE IN COMMERCIAL PRODUCTION)**

Apply **Sharda Clothianidin 23% SC II** when threshold populations are observed. **DO NOT** wait until population beyond threshold has been established. Apply **Sharda Clothianidin 23% SC II** in sufficient water to ensure uniform and thorough coverage of foliage. Thorough coverage is required for control. For effective coverage, use proper spray pressures, nozzles, nozzle spacing and water volume per acre.

APPLICATION RATES ON NON-BEARING FRUIT AND NUT TREES (POST-BLOOM APPLICATION)		
Pests	Sharda Clothianidin 23% SC II Application Rates	Rates/Instructions
Aphid Apple Maggot Codling Moth Leafhopper Leafminers Oblique-Banded Leafroller Oriental Fruit Moth Plum Curculio Spotted Tentiform Leafminer Western Tentiform Leafminer	5.6 - 12 fl. oz./A (0.093 - 0.2 lb. a.i./A) 1.4 - 3 fl. oz./100 gals. (0.023 - 0.05 lb. a.i./100 gals.)	Non-bearing fruit and nut trees in landscapes are only for ornamental use. DO NOT harvest fruit or nuts from treated trees within 1 year of application. The amount of Sharda Clothianidin 23% SC II per acre will depend on tree size, pest pressure and the volume of foliage present. The rate of water carrier per acre is based on a standard of 400 gals. of dilute spray per acre for large trees. Apply Sharda Clothianidin 23% SC II in a full coverage spray to the point of drip. The spray volume will depend on tree size and density of the canopy. Choose lower rate for light infestation and the higher rate for heavy infestation. For Control of Codling Moth and Oriental Fruit Moth: Apply Sharda Clothianidin 23% SC II in a program of rotational sprays with other labeled insecticides. When using the 5.6 fl. oz. rate of Sharda Clothianidin 23% SC II to control the Codling Moth and/or Oriental Fruit Moth, DO NOT apply treatments less than a 14-day interval. For Control of Leafminers and Leafrollers: Make the first application as soon as pollination is complete and bees are no longer present. A single application may result in suppression only.
Restrictions:		
<ul style="list-style-type: none"> DO NOT apply more than 12 fl. oz. (0.2 lb. a.i.) of Sharda Clothianidin 23% SC II per acre per calendar year. DO NOT apply treatments less than a 10-day interval. 		

TURFGRASS

Sharda Clothianidin 23% SC II can be used as directed on grass grown in industrial, commercial and residential landscapes including, airports, athletic fields, cemeteries, commercial sod farms, golf courses, home lawns, parks and playgrounds.

Sharda Clothianidin 23% SC II has sufficient residual activity to provide high levels of control when applications are made preceding or during the egg laying activity of the target pests. The need for an application can be based on historical monitoring of the site, previous records or experiences, current season adult trapping or other methods. Follow application with sufficient irrigation or rainfall to move the active ingredient through the thatch.

Sharda Clothianidin 23% SC II can be applied to turf at 12 - 24 fl. oz. per acre. The rate is dependent on the target pest(s), their stage of development and the desired level of control. Optimum results for grubs (larvae) will be achieved when applications are made just prior to or just after peak egg laying. Use higher rates when long residual control is desired or late season curative applications are made to turf already showing grub damage. Multiple applications can be made but **DO NOT** exceed the maximum amount per calendar year (24 fl. oz. per acre). Consult your local State Agricultural Experiment Station, State Extension Turf Specialists or other turf experts for specific information concerning the timing of application(s).

Apply **Sharda Clothianidin 23% SC II** in sufficient water to provide optimal distribution in the treated area. The use of properly calibrated equipment normally used for the application of turfgrass insecticides is required. Use equipment which will produce a uniform, coarse droplet spray, using a low pressure setting to eliminate off target drift. Check calibration periodically to ensure that equipment is working properly.

APPLICATION RATES ON TURFGRASS	
Pests	Sharda Clothianidin 23% SC II Application Rates
Annual Bluegrass Weevil Billbugs Black Turfgrass Ataenius Chinch Bugs Sod Webworms White Grubs (Asiatic Garden Beetle, European Chafer, Green June Beetle, Japanese Beetle, Northern Masked Chafer, Oriental Beetle, and Southern Masked Chafer)	12 - 24 fl. oz./A (0.2 - 0.4 lb. a.i./A)
Cutworms (Suppression) Mole Crickets (Suppression)	24 fl. oz./A (0.4 lb. a.i./A)
Restrictions:	
<ul style="list-style-type: none"> DO NOT apply more than a total of 24 fl. oz. (0.4 lb. a.i.) of Sharda Clothianidin 23% SC II per acre per calendar year. 	

- **DO NOT** allow children or pets to enter the treatment area until sprays are dried.
- **DO NOT** allow this product to contact plants in bloom if bees are foraging the treatment area.
- **DO NOT** mow turfgrass until after irrigation or rainfall has occurred so that uniformity of application will not be affected.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a dry place away from excessive heat. **DO NOT** store near food or feed. Store in original container only. To close package, replace and tighten cap to form an airtight seal.

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

CONTAINER HANDLING:

[Less Than or Equal to 5 Gallons] Nonrefillable HDPE 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 incineration.

[Greater Than 5 Gallons] [Refillable HDPE 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 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.

[Greater Than 5 Gallons] [Nonrefillable HDPE 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. Offer for recycling, if available; otherwise dispose of empty container in a sanitary landfill or by incineration.]

[For Bulk and Mini-Bulk Containers] [Refillable HDPE 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.]

CONTAINER IS NOT SAFE FOR FOOD, FEED, OR DRINKING WATER!

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