



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

November 18, 2015

Ms. Cheryl Wagner  
Agent for Sharda USA LLC  
C/o Wagner Regulatory Associates, Inc.  
P.O. Box 640  
Hockessin, DE 19707

Subject: Notification per PRN 98-10 – To Include Two Omitted Asterisks  
And a Table Footer  
Product Name: Sharda Imidacloprid 2SC T&O  
EPA Registration Number: 83529-2  
Application Date: October 13, 2015  
Decision Number: 510305

Dear Ms. Wagner:

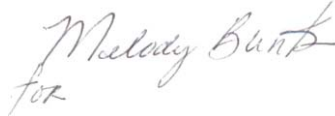
The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

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.

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If you have any questions, you may contact Melody Banks at (703) 305-5413 or via email at [Banks.Melody@epa.gov](mailto:Banks.Melody@epa.gov).

Sincerely,

A handwritten signature in cursive script that reads "Melody Banks" with "for" written below it.

Venus Eagle, Product Manager 01  
Invertebrate & Vertebrate Branch 3  
Registration Division (7505P)  
Office of Pesticide Programs

**SHARDA IMIDACLOPRID 2SC T&O**  
**[ABN: MIDASH 2SC T&O]**  
**[ABN: DELPHI INSECTICIDE]**

**Insecticide for foliar and systemic insect control in turf grass (including sod farms), landscape  
 ornamentals, fruit and nut trees and interior plantscapes.**

**ACTIVE INGREDIENT:**

Imidacloprid, 1-[(6-Chloro-3-pyridinyl)methyl]-  
 N-nitro-2-imidazolidinimine ..... 21.4%

**OTHER INGREDIENTS:** ..... 78.6%

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

Contains 2 pounds of imidacloprid per gallon.

**NOTIFICATION**

83529-2

The applicant has certified that no  
 changes, other than those reported to  
 the Agency have been made to the  
 labeling. The Agency acknowledges  
 this notification by letter dated:

11/18/2015

**EPA Reg. No. 83529-2**  
**EPA Est. No. 37429-GA-02**  
**NET CONTENTS: 1 Gallon**

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

<b>FIRST AID</b>	
<b>IF SWALLOWED:</b>	- 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.
<b>IF ON SKIN OR CLOTHING:</b>	- Take off contaminated clothing. - Rinse skin immediately with plenty of water for 15 to 20 minutes. - Call a poison control center or doctor for treatment advice.
<b>IF IN EYES:</b>	- Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. - Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. - Call a poison control center or doctor for treatment advice.
In case of emergency call CHEMTREC toll free at <b>1-800-424-9300</b> . Have a product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>NOTE TO PHYSICIAN:</b> No specific antidote is available. Treat the patient symptomatically.	

**Manufactured For:**  
 Sharda USA LLC  
 7217 Lancaster Pike, Suite A  
 Hockessin, DE 19707

See inside booklet for additional PRECAUTIONARY STATEMENTS, DIRECTIONS FOR USE, and STORAGE AND DISPOSAL.

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

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Keep children or pets off treated area until spray is dry.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**Applicators and Other Handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride (PVC) or Viton. If you want more options, follow the instructions for category A on an EPA chemical-resistant category chart.
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining personal protective equipment, PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**ENGINEERING CONTROLS STATEMENT**

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**USER SAFETY RECOMMENDATIONS**

**User 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 highly toxic to aquatic invertebrates. DO NOT apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. DO NOT contaminate water when disposing of equipment washwaters.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops/plants or weeds. DO NOT apply this product or allow it to drift to blooming crops/plants or weeds if bees are foraging the treatment area.

This chemical demonstrates the 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.

# 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)

### 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 the container is leaking or material spilled for any reason or cause, carefully sweep material into a pile. Refer to Precautionary Statements on label for hazards associated with the handling of this material. Do not walk through spilled material. Dispose of pesticide as directed below. In spill or leak incidents, keep unauthorized people away. You may contact Chemtrec at 1-800-424-9300 for decontamination procedures or any other assistance that may be necessary.

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

**CONTAINER DISPOSAL:** Nonrefillable container. Do not refill or reuse container. 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  $\frac{1}{4}$  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 incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## DIRECTIONS FOR USE

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

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



### 1. FOR FOOD CROPS AND COMMERCIALLY GROWN ORNAMENTALS NOT UNDER CONTRACT FOR POLLINATION SERVICES BUT ARE ATTRACTIVE TO POLLINATORS

**Do not apply this product while bees are foraging. Do not apply this product until flowering is complete and all petals have fallen unless one of the following conditions is met:**

- The application is made to the target site after sunset
- The application is made to the target site when temperatures are below 55 ° F
- The application is made in accordance with a government-initiated public health response
- The application is made in accordance with an active state-administered apiary registry program where beekeepers are notified no less than 48-hours prior to the time of the planned application so that the bees can be removed, covered or otherwise protected prior to spraying
- The application is made due to an imminent threat of significant crop loss, and a documented determination consistent with an IPM plan or predetermined economic threshold is met. Every effort should be made to notify beekeepers no less than 48-hours prior to the time of the planned application so that the bees can be removed, covered or otherwise protected prior to spraying.



## 2. Non-Agricultural Uses:

**Do not apply while bees are foraging. Do not apply this product to plants that are flowering. Only apply after all flower petals have fallen off.**

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**Restriction:** Do not formulate this product into other end-use products.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry 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 worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

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

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

- Coveralls
- Chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinyl chloride (PVC) or viton.
- Shoes plus socks

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep children and pets off treated area until dry.



**APPLICATION TO TURFGRASS**

SHARDA IMIDACLOPRID 2SC T&O will control the following soil inhabiting pests and larvae found in turfgrass:

PEST	SCIENTIFIC NAME
Northern & Southern masked chafers	<i>Cyclocephala borealis</i> , <i>C. immaculata</i> , and/or <i>C. lurida</i>
Asiatic garden beetle	<i>Maladera castanea</i>
European chafer	<i>Rhizotrogus majalis</i>
Green June beetle	<i>Cotinis nitida</i>
May or June beetle	<i>Phyllophaga</i> spp.
Japanese beetle	<i>Popillia japonica</i>
Oriental beetle	<i>Anomala orientalis</i>
Billbugs	<i>Spherophorus</i> spp.
Annual bluegrass weevil	<i>Hyperodes</i> spp.
Black turfgrass ataenius	<i>Ataenius spretulus</i> and <i>Aphodius</i> spp.
European Crane Fly	<i>Tipula paludosa</i>
Mole crickets	<i>Scapteriscus</i> spp.

SHARDA IMIDACLOPRID 2SC T&O will suppress cutworms and chinch bugs.

SHARDA IMIDACLOPRID 2SC T&O can be applied as directed on turfgrass in the following sites:

Residential lawns	Golf courses	Playgrounds
Business and office complexes	Airports	Athletic fields
Shopping complexes	Cemeteries	Sod farms*
Multi-family residential complexes	Parks	

\*Do not use in Arizona unless otherwise directed by state-specific 24(c) labeling.

Turf Grass		
Pest	Rate Per Application	Comments
Northern & Southern masked chafers Asiatic garden beetle European chafer Green June beetle May or June beetle Japanese beetle Oriental beetle Billbug Annual bluegrass weevil Black turfgrass ataenius European Crane Fly Cutworms (suppression)	1.25 to 1.6 pts./Acre  (Equivalent to 0.46 to 0.6 fl. oz. per 1,000 sq. ft.)	Make application prior to egg hatch of grubs, billbugs, annual bluegrass weevil, and European Crane Fry to maximize control.
Chinch bugs (suppression) Mole crickets	1.6 pts./Acre  (equivalent to 0.6 fl. oz. per 1,000 sq. ft.)	<ul style="list-style-type: none"> <li>For suppression of chinchbugs, make application before the hatching of the first instar nymphs.</li> <li>For control of mole crickets make application prior to or during the peak egg hatch period.</li> <li>If adults or large nymphs are actively tunneling, combine applications of SHARDA IMIDACLOPRID 2SC T&amp;O with a remedial insecticide. Follow label</li> </ul>



		instructions for other insecticides when tank-mixing.
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- SHARDA IMIDACLOPRID 2SC T&O has adequate residual activity so that applications can be made preceding the egg laying activity of the target pests.
- Best control is achieved when applications are made prior to egg hatch of the pests and when rainfall or irrigation after application will penetrate vertically in the soil column carrying the active ingredient into the zone where insects are normally located.
- In order to move the active ingredient through the thatch, irrigate if rainfall does not occur within 24 hours after application.
- Consult your local turf, state Agricultural Experiment Station, or State Extension Service Specialists for more specific information regarding timing of application.

#### **Application Equipment for Use on Turfgrass**

Dilute SHARDA IMIDACLOPRID 2SC T&O with enough water to provide adequate volume to promote thorough distribution into the pest zone. Use only accurately calibrated equipment for application to turfgrass. Apply a uniform, coarse droplet spray, using a low pressure setting to eliminate off target drift. Calibrate on a regular basis to ensure that equipment is distributing product properly.

#### **Restrictions:**

- DO NOT apply more than 25.6 fl. oz. (1.6 pts.) (0.4 lb. of active ingredient) per acre per year.
- DO NOT mow turf or lawn area until after sufficient irrigation or rainfall has occurred.
- DO NOT apply when infested turfgrass areas are waterlogged or soil beneath turf is saturated with water. These conditions prevent thorough and consistent distribution.
- Do not allow this product to contact blooming plants if bees are foraging the treatment area.
- DO NOT allow children or pets to enter the treated area until sprays have dried.

#### **APPLICATION TO ORNAMENTALS**

SHARDA IMIDACLOPRID 2SC T&O can be applied to ornamental plants in commercial and residential landscapes and interior plantscapes. SHARDA IMIDACLOPRID 2SC T&O is a systemic insecticide that is transported within the plant system from the roots to the upper foliage. Apply SHARDA IMIDACLOPRID 2SC T&O into a growing area of the plant that allows absorption of the active ingredient. Adding soluble nitrogen type fertilizers to the spray solution when appropriate can promote the uptake of the active ingredient.

Application can be made by foliar application or soil applications; including soil injection, drenches, and broadcast sprays. Foliar applications offer locally systemic activity against insect pests.

The systemic translocation of active ingredient will be slower when applied to woody plants with soil applications. This delay can take 60 days or longer depending on species and size of plant. To offset this, make applications before anticipated pest infestation.

#### **Restriction for Ornamentals:**

- Outdoor applications cannot exceed a total of 25.6 fl. oz. (1.6 pts.) (0.4 lb. of active ingredient) per acre per year.
- Do not apply SHARDA IMIDACLOPRID 2SC T&O by any application method to linden, basswood, or other *Tilia* species in the State of Oregon.

#### **ANT MANAGEMENT PROGRAMS**

Use SHARDA IMIDACLOPRID 2SC T&O to control aphids, scale insects, mealybugs and other sucking pests on ornamentals with ant populations because it removes honeydew as a food source. To enhance control of ants, supplement with residual sprays, bait placements or other ant control tactics.

#### **APPLICATION EQUIPMENT FOR FOLIAR APPLICATIONS**

SHARDA IMIDACLOPRID 2SC T&O mixes readily with water and may be used in many types of application equipment. Add a commercial spreader/sticker to promote coverage on hard to wet foliage such as holly, pine, or ivy.

SHARDA IMIDACLOPRID 2SC T&O is compatible with many commonly used fungicides, miticides, liquid fertilizers, and other insecticides. If applicator has no prior experience with a particular tank mix, check physical compatibility by making a small clear jar test using correct proportions of products to be tank mixed.

#### RESTRICTIONS for Foliar Applications:

- Keep children and pets off treated area until dry.
- Do not apply more than 1.6 pts. (0.4 lb. of active ingredient) per acre per year.
- Not for use in commercial greenhouses, nurseries, or on grasses grown for seed, or on commercial fruit and nut trees.
- DO NOT apply through any irrigation system.
- Do not graze treated areas or use clippings from treated areas for feed or forage.
- Do not allow runoff or puddling of irrigation water following application.
- Do not apply SHARDA IMIDACLOPRID 2SC T&O to areas which are water logged or saturated, which will not allow penetration into the root zone of the plant.
- Do not apply SHARDA IMIDACLOPRID 2SC T&O by any application method to linden, basswood, or other *Tilia* species in the State of Oregon.
- Treated areas may be replanted with any crop specified on an imidacloprid label, or with any crop for which a tolerance exists for the active ingredient.
- For crops not listed on an imidacloprid label, or for crops for which no tolerances for the active ingredient have been established, a 12-month plant-back interval is required.

#### Foliar Application To Ornamental trees, Non-bearing Fruit and Nut Trees, Shrubs, Evergreens, Flowers, Foliage Plants, Groundcovers, Interior Landscapes (Only for in and around the perimeter of Industrial, Commercial Buildings, Residential and Landscaped Areas)

Pest	Rate per Application	Comments
Adelgids Aphids Honeylocust plant bug Diptera (including Rhododendron gall midge, Honeylocust pod gall midge) Froghopper Galls (including Hickory stem gall) Japanese beetle Lace bugs Leaf beetles (including elm and viburnum leaf beetles) Leafhoppers (including glassy-winged sharpshooter) Leaf miners (including boxwood leafminer) Mealybugs Planthoppers Psyllids Sawfly larvae Scales (including Lecanium, Azalea bark, Calico, Cottony Camellia, Cottony maple, Cottony taxus) Spittlebugs Thrips (suppression)(including Flower, Pear, and Pine thrips) Treehoppers Weevils (including white pine and black vine) Whiteflies	1.5 fl. oz. (45 mL) per 100 gals. of water	Make foliar applications before high pest populations become established. Reapply on an as needed basis.
Broadcast Application		
Pest	Rate per Application	Comments
White grub larvae (such as Japanese beetle larvae,	0.46 to 0.6 fl. oz. (14 to 17 mL) per 1,000	• Make broadcast applications by mixing specified rate in enough water to uniformly

Chafers, <i>Phyllophaga</i> spp., Asiatic garden beetle, Oriental beetle)	sq. ft.	cover the treated area. <ul style="list-style-type: none"> <li>• <b>Do not</b> use less than 2 gallons of water per 1,000 sq. ft.</li> <li>• In order to move the active ingredient through the thatch, irrigate if rainfall does not occur within 24 hours after application.</li> </ul>
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**Note:** Refer to use directions specific for FLOWERS and GROUND COVERS concerning additional use directions.

**Restriction:** Do not apply more than 25.6 fl. oz. (1.6 pts.) (0.4 lb. of active ingredient) per acre per year.

**Soil Application to Ornamental trees, Non-bearing Fruit and Nut Trees, Shrubs, Flowers and Groundcovers**

*(Only in and around perimeter of industrial and commercial buildings and residential areas, and state, national, and private wooded and forested areas)*

Use Site	Pest	Rate per Application*
<b>Ornamental trees, Non-bearing Fruit and Nut Trees, Shrubs, Flowers and Groundcovers</b>	Adelgids Aphids Armored scales (suppression) Black vine weevil larvae Eucalyptus longhorned borer Flatheaded borers (including bronze, alder and emerald ash borers) Japanese beetles Lace bugs Leaf beetles (including elm and viburnum leaf beetles) Leafhoppers (including glassy-winged sharpshooter) Leafminers Mealybugs Pine tip moth larvae Plant bugs Psyllids Roundheaded borers Royal palm bug Sawfly larvae Soft scales Thrips (suppression) White grub larvae Whiteflies	<p><b>Trees:</b>                      Use the following rates as a function of tree diameter at breast height (DBH):</p> <ul style="list-style-type: none"> <li>• Apply 0.1 to 0.4 fl. oz. per inch of trunk diameter (D.B.H.)</li> <li>• You may use the higher rate (0.3 – 0.4 fl. oz.) only for trees greater than 15 DBH to control the following pests:</li> </ul> <p style="padding-left: 40px;">Emerald Ash borer,                      Eucalyptus longhorned borer,                      Bronze birch borer,                      Alder borer</p> <p><b>Restriction:</b> Do not apply more than 25.6 fl. oz. (1.6 pts.) (0.4 lb. of active ingredient) per acre per year.</p> <p><b>Shrubs:</b>                      Apply 0.1 to 0.2 fl. oz. (3 to 6 mL) per foot of shrub height.</p> <p><b>Flowers and Groundcovers:</b></p> <ul style="list-style-type: none"> <li>• Apply 0.46 to 0.6 fluid ounces (14 to 17 mL) per 1000 sq. ft.</li> <li>• Apply as a soil treatment and incorporate into the soil before planting or apply after plants are established. If application is made to established plants prior to bloom or after all petals have fallen off plants, irrigate immediately after application.</li> </ul> <p>*Diameter at Breast Height (DBH) is measured at 4.5 feet from the ground.</p>

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## Application Techniques: Trees

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### Soil Injection

Mix required dosage in sufficient water to inject an equal amount of solution in each hole. For concentrate injectors mix required dose with up to one gallon of water per DBH inch. Maintain a low pressure and use sufficient solution for distribution of the liquid into the treatment zone. Dilution rate may vary depending on equipment used, tree size and application rate. Refer to the instructions for injector equipment being used for guidance.

- **GRID SYSTEM:** Make applications in a grid pattern on 2.5 foot centers within the drip line of the tree.
- **CIRCLE SYSTEM:** Make applications in holes evenly spaced approximately 2 - 3 feet apart in a circle within the drip line of the tree. Larger trees may require additional application circles.
- **BASAL SYSTEM:** Make applications into holes evenly spaced around the base of the tree trunk no more than 6 to 12 inches out from the base.

### Soil Drench

Uniformly apply the dosage in no less than 10 gallons of water per 1,000 square feet as a drench around the base of the tree, directed to the root zone. Remove any plastic or other barrier that may prevent drench solution from reaching the root zone.

### For All Application Techniques:

- Inject an equal amount of water and solution in each hole.
- Use low pressure and sufficient solution for thorough distribution into the treatment zone.
- Maintain soil moisture for 7 to 10 days.
- Application to trees already heavily infested with borers listed may not prevent the eventual loss of the trees.

### Restrictions for Trees:

- **Do not** use less than 4 holes per tree.
- No soil injection applications allowed in Nassau or Suffolk counties of New York
- **Do not** apply more than 25.6 fl. oz. (1.6 pts.) (0.4 lb. of active ingredient) per acre per year.
- Do not apply SHARDA IMIDACLOPRID 2SC T&O by any application method to linden, basswood, or other *Tilia* species in the State of Oregon.

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## Application Techniques: Shrubs

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### Soil Injection:

Apply to individual plants using dosage indicated.

### Soil Drench:

Uniformly apply the dosage in no less than 10 gallons of water per 1,000 square feet as a drench around the base of the shrub, directed to the root zone. Remove plastic or any other barrier that will stop solution from reaching the root zone.

- Mix required dosage in sufficient water to inject an equal amount of solution in each hole.
- Maintain a low pressure and use sufficient solution for distribution of the liquid into the treatment zone.
- Maintain soil moisture for 7 to 10 days.

### Restrictions for Shrubs:

- **Do not** use less than 4 holes per shrub.
- No soil injection applications allowed in Nassau or Suffolk counties of New York
- **Do not** apply more than 25.6 (1.6 pts.) (0.4 lb. of active ingredient) per acre per year.

Crop	Pest	Rate per Application
<b>Pome Fruits</b> Apple, Crabapple, Loquat, Mayhaw, Pear, Pear (Oriental), Quince <i>(For Residential Areas Only)</i>	Aphids(except Woolly apple aphid) Leafhoppers (including glassy-winged sharpshooter) Leafminer Mealybugs* San Jose scale*	1.5 fl. oz. (45 mL) per 100 gals. or 6.0 fl. oz. per acre
<p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>• Apply specified dosage as foliar spray as needed after petal-fall is complete.</li> <li>• For control of rosy apple aphid, apply prior to leafrolling caused by the pest.</li> <li>• For first generation leafminer control, make first application as soon as petal fall is complete. Greatest leafminer control will result from the earliest possible application. For second and succeeding generations of leafminer, optimal control is obtained from applications made early in the adult flight against egg and early instar larvae. A second application may be required 10 days later if severe pressure continues or if generations are overlapping. A single application may result in suppression only. SHARDA IMIDACLOPRID 2SC T&amp;O will not control late stage larvae.</li> <li>• For San Jose scale, time applications to the crawler stage. Treat each generation.</li> <li>• For late season (preharvest) control of leafhopper species, apply SHARDA IMIDACLOPRID 2SC T&amp;O while most leafhoppers are in the nymphal stage.</li> <li>• For optimal control of mealybug, insure good spray coverage of the trunk and scaffolding limbs or other resting sites of the mealybug.</li> </ul> <p><b>Restrictions:</b></p> <ul style="list-style-type: none"> <li>• Do not apply more than 6.0 fluid ounces per acre in a single application.</li> <li>• Do not make more than 4 applications per acre per year.</li> <li>• Do not apply more than 25.6 fl. oz. (0.4 lb.) of AI per acre per year.</li> <li>• Allow 10 or more days between applications.</li> <li>• Allow at least 7 days between last application and harvest.</li> <li>• Do not apply pre bloom, during bloom, or when bees are foraging.</li> </ul> <p>*Not for use in California for control on pears.</p>		

Crop	Pest	Rate per Application
<b>PECAN*</b> <i>(For Residential Areas Only)</i>	Black margined aphid Pecan leaf phylloxera Pecan spittlebug Pecan stem phylloxera Yellow pecan aphid	1.5 fl. oz. (45 ml) per 100 gals. or 6.0 fl. oz. per acre <sup>1</sup>
<p><b>Notes:</b></p> <ul style="list-style-type: none"> <li>Apply specified dosage as foliar application as pest pressure begins to increase.</li> <li>Make a second application 10 to 14 days after first if field scouting reveals continued pest pressure.</li> <li>Use of an organosilicone based spray adjuvant at specified rate can insure thorough coverage of foliage.</li> </ul> <p><b>Restrictions:</b></p> <ul style="list-style-type: none"> <li><b>Do not</b> apply more than a total of 18.0 fluid ounces of SHARDA IMIDACLOPRID 2SC T&amp;O per acre per year.</li> <li><b>Do not</b> make more than 3 applications.</li> <li>Allow 10 or more days between applications.</li> <li><b>Do not</b> apply pre-bloom, during bloom, or when bees are foraging.</li> <li><b>Do not</b> use on pecans in California unless directed by state specific supplemental labeling.</li> </ul> <p><sup>1</sup>The amount of Sharda Imidacloprid 2SC required per acre may vary depending on tree size and volume of foliage present. The rates given are based on a standard of 400 gallons of dilute spray solution per acre for large trees with full foliage.</p> <p><b>*Use on pecans not permitted in California unless directed by state-specific 24(c) labeling.</b></p>		

Crop	Pest	Rate per Application
<b>Grapes</b> <i>(For use only in and around perimeter of Industrial, Commercial Buildings, and Residential Planting Areas)</i>	Leafhoppers (including glassy-winged sharpshooter) Mealybugs	1.5 fl. oz. (45 mL) per 100 gals. or 3.0 fl. oz. per acre
<p><b>Note:</b></p> <ul style="list-style-type: none"> <li>Apply specified dosage as a foliar spray using 200 gallons of water per acre.</li> <li>Applications may be applied up to and including day of harvest.</li> </ul> <p><b>Restrictions:</b></p> <ul style="list-style-type: none"> <li>Do not apply more than a total of 6.0 ounces of SHARDA IMIDACLOPRID 2SC T&amp;O per acre per year.</li> <li>Allow at least 14 days between applications.</li> </ul>		

### DIRECTIONS FOR USE IN AND AROUND POULTRY HOUSES

SHARDA IMIDACLOPRID 2SC T&O controls Darkling Beetles and Hide Beetles in and around poultry houses. Use SHARDA IMIDACLOPRID 2SC T&O as a general surface, spot, or crack and crevice treatment to walls, floors, and support beams of poultry facilities.

SHARDA IMIDACLOPRID 2SC T&O can be applied broadcast or banded treatment with one application, and stops the damage darkling beetles cause to poultry facilities.

**DO NOT APPLY WHEN BIRDS ARE PRESENT.** Remove or cover exposed feed and water in areas to be treated. Allow treated surfaces to dry completely before returning birds to the facility.

### MIXING AND APPLICATION INSTRUCTIONS

**Application Timing:** Apply between flocks, following de-caking/sanitation procedures.

#### Application Directions and Rates:

- Determine the area (number of square feet) to be treated.



2. Refer to the Mixing Table below for the specified amount of SHARDA IMIDACLOPRID 2SC T&O to use.
3. Mix the specified amount of SHARDA IMIDACLOPRID 2SC T&O with the specified amount of water and apply as a spray. Fill the spray tank with ½ of the water required for treatment.
4. Begin agitation and add the specified amount of SHARDA IMIDACLOPRID 2SC T&O to the tank.
5. Continue mixing and add the remainder of the water. Maintain agitation during product application to ensure a uniform spray. Prepare fresh spray mixtures before each treatment.

#### MIXING TABLE FOR SHARDA IMIDACLOPRID 2SC T&O

SHARDA IMIDACLOPRID 2SC T&O PER 1,000 FEET <sup>2</sup>	GALLONS OF WATER PER 1,000 FEET <sup>2</sup>
6 Fluid Ounces (180 mL)	½ - 2 Gallons

#### Band Application Instructions

When darkling beetles are concentrated in certain areas, such as under feed or water lines, or along perimeter walls, it may not be necessary to treat the entire poultry house. In these situations, certain portions of the house or “bands” may be treated. For example, apply SHARDA IMIDACLOPRID 2SC T&O to a 3-foot wide band of litter under all of the feed and/or water lines in the house; a 3-foot wide band of litter adjacent to the side and end walks; and the lower section of the walls, including 1-foot up onto wood surfaces above the foundation. Be sure to measure the actual area (square feet) to be treated in order to determine the amount of SHARDA IMIDACLOPRID 2SC T&O needed for the application.

#### Whole House Application

When darkling beetle infestation is severe, the entire house may need treatment. Apply diluted SHARDA IMIDACLOPRID 2SC T&O as a broadcast spray to the litter covering the entire floor area, especially to litter under feed and water lines, as well as the lower sections of the walls, including 1-foot up onto wood surfaces above the concrete foundation.

For Best Results in houses with support beams, treat the litter surface around each support post and 1-foot up each post. Also apply diluted spray to cracks and crevices around wall insulation, where beetles have been seen or can find harborage.

#### RESISTANCE MANAGEMENT

Darkling beetles, like all insects, have the ability to develop resistance to insecticides. When a single chemical class is used continuously this increases the likelihood that resistance to that chemical class will develop. Sharda Imidacloprid 2SC T&O contains imidacloprid, a chloronicotinyl insecticide. SHARDA IMIDACLOPRID 2SC T&O should be used in an insecticide rotation program with other classes of insecticides including pyrethroids, organophosphates, and spinosyns to prevent resistance and preserve the product’s effectiveness for darkling beetle control.

Do not use SHARDA IMIDACLOPRID 2SC T&O or any other pesticide product at lower than specified label rates. Lower than specified rates expose the insect to a sub-lethal dose and increase the development of resistance. Use Integrated Pest Management (IPM) strategies in addition to insecticide treatments to manage darkling beetle populations.

When pest exclusion at possible entry points is desired, supplement SHARDA IMIDACLOPRID 2SC T&O treatments with targeted applications of pyrethroid insecticides to the building perimeter, foundation, doors and windows, utility entry points, and other places where pests may enter the structure. When making applications to the building perimeter, do not allow this product to contact blooming plants if bees are foraging the treatment area. Read and follow all label directions when using other products.



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**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Sharda USA LLC. All such risks shall be assumed by the user or buyer.

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