

U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505T)
1200 Pennsylvania Ave., N.W.

Washington, D.C. 20460

NOTICE OF PESTICIDE:

X Registration
Reregistration

(under FIFRA, as amended)

EPA Reg. Number:

Date of Issuance:

83529-332

6/6/24

Term of Issuance:

Unconditional

Name of Pesticide Product:

Sharda Gamma-Cyhalothrin 5.9% CS II

Name and Address of Registrant (include ZIP Code):

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

Scott Campbell, Acting Product Manager 3
Invertebrate & Vertebrate Branch 1,
Positivation Division (75057)

Registration Division (7505T)

Date:

6/6/24

EPA Form 8570-6

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- 2. Make the following label changes before you release the product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 83529-332."
- 3. 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 04/05/2023

If you have any questions, please contact Rebecca Lasko at 202-565-2469 or at lasko.rebecca@epa.gov.

Enclosure

83529-XXX.20230405.V2

## RESTRICTED USE PESTICIDE DUE TO TOXICITY 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 the Certified Applicator's certification.

[MASTER LABEL]

GAMMA-CYHALOTHRIN

GROUP 3A

INSECTICIDE

# Sharda Gamma-Cyhalothrin 5.9% CS II

**ABN: Guest** 

For control of insect pests in alfalfa, canola, Cole crops, corn, sweet corn, cotton, fruiting vegetables, legume vegetables, lettuce (head & leaf), okra, onion, peanut, pistachios, pome fruits, rice, sorghum (grain), soybean, stone fruits, sugarcane, sunflower, tobacco, tree nuts including pecans, wheat, triticale, conifer and deciduous trees (plantations, nurseries and seed orchards) and non-cropland areas adjacent to crops.

**WT. BY %** 

## **ACTIVE INGREDIENT:**

Gamma-cyhalothrin: Cyclopropanecarboxylic acid, 3-(2-chloro-3,3,3-trifluoro-1-propenyl)- 2,2-dimethyl, cyano(3-phenoxyphenyl)methyl ester\*......5.9% 

\*Contains 0.5 lb. of active ingredient per gallon. Contains petroleum distillate. \*Synthetic pyrethroid, CAS No. 76703-62-3,

capsule suspension (nicroencapsulated).

ACCEPTED

06/06/2024

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

83529-332

## **KEEP OUT OF REACH OF CHILDREN** CAUTION/PRECAUCIÓN

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

## **FIRST AID**

I III AID				
IF SWALLOWED:	F SWALLOWED:  • Immediately call a poison control center or doctor.			
	DO NOT induce vomiting unless told to do so by a poison control center or doctor.			
	DO NOT give any liquid to the person.			
	DO NOT give anything by mouth to an unconscious person.			
IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15-20 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.			
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.

## **NOTE TO PHYSICIAN**

Induced vomiting as first aid for this substance may result in increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent. Vomiting should be induced only under professional supervision. Skin exposure may also result in a sensation described as a tingling, itching, burning, or prickly feeling. Onset may occur immediately to 4 hours after exposure and may last 2 to 30 hours, without damage. Wash exposed areas once with soap and water. Relief from the skin sensation may be obtained by applying an oil-based cream.

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

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

Manufactured for: Sharda USA LLC S 7217 Lancaster Pike, Suite A

Hockessin, Delaware 19707

EPA Reg No. 83529-XXX **EPA Est. No. XXXXX-XX-XXX** 

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

## **PRECAUTIONARY STATEMENTS**

# HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION / PRECAUCIÓN

Causes moderate eye irritation. Harmful if swallowed. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with eyes, skin, or clothing.

## PERSONAL PROTECTIVE EQUIPMENT (PPE)

## Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, natural rubber ≥14 mils, polyethylene, polyvinyl chloride (PVC) ≥14 mils or Viton ≥ 14 mils
- Shoes plus socks
- Protective eyewear
- Respirator Wear a minimum of a NIOSH-approved elastomeric half mask respirator with organic vapor (OV) cartridges and combination N\*, R, or P filters; OR a NIOSH-approved gas mask with OV canisters; OR a NIOSH-approved powered air purifying respirator with OV cartridges and combination HE filters.

Follow 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.

#### **ENGINEERING CONTROLS**

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**

#### **Users must:**

- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.
- Remove and wash contaminated clothing before reuse.

## **ENVIRONMENTAL HAZARDS**

This pesticide is extremely toxic to fish and aquatic organisms and toxic to wildlife. **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** apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. **DO NOT** contaminate water when disposing of equipment wash waters.

**NON-TARGET ORGANISM ADVISORY STATEMENT**: This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. **DO NOT** apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area. **Protect pollinating insects by following label directions intended to minimize drift and to reduce risk to these organisms.** 

## PROTECTION OF POLLINATORS

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

Look for the bee hazard icon in the **DIRECTIONS FOR USE** for each application site for specific use restrictions and instructions to protect bees and other insect pollinators.

This product can kill bees and other insect pollinators. Bees and other insect pollinators will forage on plants when they flower, shed pollen, or produce nectar. Bees and other insect pollinators can be exposed to this pesticide from:

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

When Using This Product Take Steps To:

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

beehives or off-site to pollinator attractive habitat can result in bee kills.

Information on protecting bees and other insect pollinators may be found at the Pesticide Environmental Stewardship website at: <a href="http://pesticidestewardship.org/PollinatorProtection/Pages/default.aspx">http://pesticidestewardship.org/PollinatorProtection/Pages/default.aspx</a>

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. Pesticide incidents should also be reported to the National Pesticide Information Center at: www.npic.orst.edu or direct to EPA at: beekill@epa.gov.

#### PHYSICAL AND CHEMICAL HAZARDS

**DO NOT** use or store near heat or open flame.

## **DIRECTIONS FOR USE**

## **RESTRICTED USE PESTICIDE**

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

For outdoor use only. **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.

SHAKE WELL BEFORE USING. READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

Agricultural Chemical: DO NOT ship or store with food, feeds, drugs, or clothing.

## For crops under contracted pollination services:



- DO NOT apply this product while bees are foraging.
- DO NOT apply this product until flowering is complete and all petals have fallen unless the following condition has been met.
- If an application must be made when managed bees are at the treatment site, the beekeeper providing the pollination services must be 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 for 38 hours following application.

## 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.
- This product is toxic to bees exposed to residue for more than 38 hours 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 the appropriate State or Federal authorities.

#### 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 (REI). 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 48 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, such as plants, soil, or water, is:

- Coveralls
- Chemical-resistant gloves, such as barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, natural rubber ≥14 mils, polyethylene, polyvinyl chloride (PVC) ≥14 mils or Viton ≥ 14 mils
- Shoes plus socks

Protective eyewear

Mixers, loaders, and applicators must wear long-sleeved shirt, long pants, shoes and socks, coveralls, gloves, and respirator.

• Wear a minimum of a NIOSH-approved elastomeric half mask respirator with organic vapor (OV) cartridges and combination R, or P filters; OR a NIOSH-approved gas mask with OV canisters; OR a NIOSH-approved powered air purifying respirator with OV cartridges and combination HE filters.

#### PRODUCT INFORMATION

**Sharda Gamma-Cyhalothrin 5.9% CS II** is a microencapsulated synthetic pyrethroid insecticide that controls insects by contact and ingestion. **Sharda Gamma-Cyhalothrin 5.9% CS II** is intended for control of insect pests in alfalfa, canola, Cole crops, corn, cotton, fruiting vegetables, legume vegetables, lettuce, okra, onion, peanut, pistachios, pome fruits, rice, grain sorghum, soybean, stone fruits, sugarcane, sunflower, tobacco, tree nuts including pecans, wheat, triticale, conifer and deciduous trees (plantations, nurseries and seed orchards) and non-cropland areas adjacent to crops.

Initial and residual insect control is contingent upon thorough crop coverage. Apply with ground or air equipment, using sufficient water to obtain full coverage of foliage. Apply in a minimum of 2 gallons per acre by air or 10 gallons per acre by ground unless otherwise specified in this label. When foliage is dense or pest pressure is high (heavier insect or egg pressure, larger larval stages), use of higher application volumes and/or higher label use rates may improve initial and residual control.

For cutworm control, **Sharda Gamma-Cyhalothrin 5.9% CS II** may be applied before, during, or after planting. For soil incorporated applications, use higher labeled rates in rate range for improved control.

#### **USE PRECAUTIONS AND RESTRICTIONS**

Nursery (Ornamentals, Vegetables, Trees, Container Stock)

- DO NOT apply as foliar broadcast application using a mechanically pressurized handgun to nurseries.
- DO NOT apply as drench/soil/ground-direct application methods using a mechanically pressurized handgun to nurseries.

Removable chemical extraction probes (also known as "stingers") used in suction/extraction systems must be rinsed within the pesticide container prior to removal.

## **INSECT RESISTANCE MANAGEMENT**

For resistance management, **Sharda Gamma-Cyhalothrin 5.9% CS II** contains a Group 3a insecticide. Any insect/mite population may contain individuals naturally resistant to **Sharda Gamma-Cyhalothrin 5.9% CS II** and other Group 3a insecticides. The resistant individuals may dominate the insect/mite population if this group of insecticides/acaricides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed.

To delay insecticide/acaricide resistance, take the following steps:

Rotate the use of **Sharda Gamma-Cyhalothrin 5.9% CS II** or other Group 3a insecticides/acaricides within a growing season, or among growing seasons, with different groups that control the same pests.

- Use tank mixtures with insecticides/acaricides 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 crossresistance 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/acaricides 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.

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• For further information or to report suspected resistance contact Sharda USA LLC. You can also contact your pesticide distributor or university extension specialist to report resistance.

#### **BUFFER ZONES**

## **Vegetative Filter Strips (not intended for use on rice)**

Construct and maintain a vegetative filter strip, according to the width specified below, of grass or other permanent vegetation between the field edge and nearby down gradient aquatic habitat (such as, but not limited to, lakes; reservoirs; rivers; streams; marshes or natural ponds; estuaries; and commercial fish farm ponds).

Only apply products containing gamma-cyhalothrin onto fields where a maintained vegetative filter strip of at least 25 feet exists between the field edge and where a down gradient aquatic habitat exists. This minimum required width of 25 feet may be reduced or removed under the following conditions:

- For Western irrigated agriculture, a maintained vegetative filter strip of at least 10 feet wide is required. Western irrigated agriculture is defined as irrigated farmland in the following states: WA, OR, CA, ID, NV, UT, AZ, MT, WY, CO, NM, and TX (west of I-35).
  - o For Western irrigated agriculture, if a sediment control basin is present, a vegetative filter strip is not required.
- In all other areas, a vegetative filter strip with a minimum width of 25 feet is required, unless the following conditions are met. The vegetative filter strip requirement may be reduced from 25 feet to 15 feet if at least one of the following applies:
  - The area of application is considered prime farmland (as defined in 7 CFR § 657.5).
  - Conservation tillage is being implemented on the area of application.
  - Conservation tillage is defined as any system that leaves at least 30% of the soil surface covered by residue after planting. Conservation tillage practices can include mulch-till, no-till, or strip-till.
  - o A functional terrace system is maintained on the area of application.
  - o Water and sediment control basins for the area of application are functional and maintained.
  - The area of application is less than or equal to 10 acres.

For further guidance on vegetated filter strips, refer to the following publication for information on constructing and maintaining effective buffers: Conservation Buffers to Reduce Pesticide Losses. Natural Resources Conservation Services. https://www.regulations.gov/document?D=EPA-HQ-OPP-2008-0331-0175"

## Buffer Zone for Ground Application (ground boom, overhead chemigation, or airblast)

**DO NOT** apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fishponds).

## Buffer Zone for Ultra Low Volume (ULV) Aerial Application

**DO NOT** apply within 450 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fishponds). Applications made by mosquito control districts and other public health officials are exempt from this requirement.

#### **Buffer Zone for Non-ULV Aerial Application**

**DO NOT** apply within 150 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, streams, marshes, ponds, estuaries, and commercial fishponds).

In the State of New York, a 25 ft. vegetated, non-cropped buffer strip untraversed by drainage tiles must be maintained between a treated field and a coastal salt marsh or stream that drains into a coastal salt marsh, for both aerial or ground application. For aerial applications, the 25 ft. vegetated non-cropped buffer strip for runoff protection would be part of the larger 150 ft. buffer strip (or 450 ft. buffer strip for ULV application) required for spray drift.

- For soil or foliar applications, DO NOT apply by ground within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes
  or natural ponds, estuaries, and commercial fish farm ponds.
- DO NOT apply the product into fish pools, ponds, streams, or lakes. DO NOT apply directly to sewers or storm drains, or to
  any area like a drain or gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur.
- DO NOT allow the product to enter any drain during or after application.
- DO NOT apply or irrigate to the point of runoff.
- DO NOT make applications during rain. Avoid making applications when rainfall is expected before the product has sufficient time to dry (minimum 4 hours).
- Rainfall within 24 hours after application may cause unintended runoff of pesticide application.
- DO NOT apply when the wind speed is greater than 10 mph.

#### **TANK MIXTURES**

When tank mixing with any other agricultural products, always add Sharda Gamma-Cyhalothrin 5.9% CS II last. Fill the tank with one half to two-thirds volume of the mixing diluent. Make sure all other products are fully dispersed in the mixing diluent before adding the recommended rate of Sharda Gamma-Cyhalothrin 5.9% CS II to the tank. Add the remainder of the mixing diluent volume. For best results, it is recommended that mixing and spray equipment have continuous agitation. Follow the precautions and limitations of the most restricted product in the tank mixture. While Sharda Gamma-Cyhalothrin 5.9% CS II has good flexibility for tank mixing with

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other agricultural products, a jar test for physical compatibility is recommended for untried mixtures using proper ratios and mixing sequences of all ingredients to be included in the mixture.

Sharda Gamma-Cyhalothrin 5.9% CS II is an aqueous-based formulation. It is recommended that no type of non-emulsifiable oils be used in combination with Sharda Gamma-Cyhalothrin 5.9% CS II. If adjuvants are used, use only: nonionic surfactant (NIS) containing at least 75% surface agent or non-phytotoxic crop oil concentrate (COC), including once-refined vegetable oil concentrate (VOC), or methylated sunflower oils (MSO) containing a minimum of 17% emulsifier.

Adjuvants other than NIS or COC may be used providing the product meets the following criteria:

- · Contains only EPA exempt ingredients.
- Is non-phytotoxic to the target crop.
- Is compatible in mixture. (Must be established through a jar test.)
- Is supported locally for use with **Sharda Gamma-Cyhalothrin 5.9% CS II** on the target crop through proven field trials and through university and extension recommendations.

In addition, the following may be used as diluents:

- Crop oil concentrate
- Methylated sunflower oils
- Urea-ammonium nitrate

It is recommended that the following **NOT** be used in combination with **Sharda Gamma-Cyhalothrin 5.9% CS II** as diluents or adjuvants:

- Non-emulsifiable oils
- Diesel fuel
- Straight mineral oil
- Fertilizer products containing the micronutrient boron.

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.

#### Chemigation

Apply **Sharda Gamma-Cyhalothrin 5.9% CS II** at rates and timing described elsewhere in this label. As local recommendations differ, consult your local State Extension Service or other local experts for recommendations on adjuvant or diluent types (see **Tank Mix Application**), rates, and mixing instructions. These recommendations should be proven, through university and extension field trials, to be effective with **Sharda Gamma-Cyhalothrin 5.9% CS II** applied by chemigation.

## **Sprinkler Irrigation Application**

Check the irrigation system to ensure uniform application of water to all areas. Thorough coverage of foliage is required for good control. Good agitation in the pesticide supply tank should be maintained prior to and during the entire application period.

Apply by injecting the recommended rate of **Sharda Gamma-Cyhalothrin 5.9% CS II** into the irrigation system using a metering device that will introduce a constant flow and by distributing the product to the target area in 0.1 to 0.2 acre-inch of water. In general, use the least amount of water required for proper distribution and coverage. It is recommended that the product be injected into the center of the main irrigation line ahead of at least one right angle turn in the line to ensure adequate dispersion or mixing in the irrigation water. Once the application is completed, flush the entire irrigation and injection system with clean water before stopping the system. In addition to the above recommendations, if application is being made during a normal irrigation set of a stationary sprinkler, the recommended rate of **Sharda Gamma-Cyhalothrin 5.9% CS II** for the area covered should be injected into the system only during the end of the irrigation set for sufficient time to provide adequate coverage and product distribution.

**DO NOT** apply **Sharda Gamma-Cyhalothrin 5.9% CS II** through an irrigation system 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 out of the year.

## **Use Restrictions—Sprinkler Irrigation Application**

- 1. **DO NOT** apply this product through any other type of irrigation system.
- 2. **DO NOT** connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- 3. **DO NOT** apply when wind speed favors drift beyond the area intended for treatment or non-uniform distribution of treated water.
- 4. **DO NOT** apply through chemigation systems connected to public water systems.

## **Use Precautions—Sprinkler Irrigation Application**

1. Apply this product only through sprinkler irrigation systems including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move.

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- 2. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- 3. If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts.
- 4. 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 should the need arise.
- 5. 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.
- 6. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back through the injection pump.
- 7. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve or interlock 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.
- 8. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 9. The irrigation line or water pump must include a functional pressure switch or interlock that will stop the water pump motor or injector when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 10. Systems must use a chemical injector or metering pump, such as 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.
- 11. Any alternatives to the above-required safety devices must conform to the list of EPA- or state agency-approved alternative devices.

#### MANDATORY SPRAY DRIFT MANAGEMENT

## **Aerial Applications:**

- **DO NOT** release spray at a height greater than 10 feet above the vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to select nozzle and pressure that deliver medium or coarser droplets (ASABE S641).
- **DO NOT** apply when wind speeds exceed 10 mph at the application site. The boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- Applicators must use ½ swath displacement upwind at the downwind edge of the field.
- DO NOT apply during temperature inversions.

## **Airblast Applications:**

- Sprays must be directed into the canopy.
- **DO NOT** apply when wind speeds exceed 10 mph at the application site.
- User must turn off outward pointing nozzles at row ends and when spraying outer row.
- DO NOT apply during temperature inversions.

## **Ground Boom Applications:**

- User must only apply with the release height recommended by the manufacturer, but no more than 4 feet above the ground or crop canopy.
- Applicators are required to select nozzle and pressure that deliver medium or coarser droplets (ASABE S572).
- **DO NOT** apply when wind speeds exceed 10 mph at the application site.
- DO NOT apply during temperature inversions.

#### For Outdoor Applications to Commercial Nurseries:

- **DO NOT** apply when the wind speed is greater than 10 mph.
- Applicators are required to select the nozzle and pressure that delivers a medium or coarser droplet size (ASABE S572).
- For soil or foliar applications, DO NOT apply by ground equipment within 25 feet of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds.

## SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

## IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

#### **Controlling Droplet Size – Ground Boom**

- **Volume** Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- Pressure Use the lowest spray pressure advised for the nozzle to produce the target spray volume and droplet size.
- Spray Nozzle Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Initial Draft Label

## **Controlling Droplet Size – Aircraft**

• Adjust Nozzles - Follow nozzle manufacturer's instructions for setting up nozzles. Generally, to reduce fine droplets, nozzles must be oriented parallel with the airflow in flight.

#### **BOOM HEIGHT – Ground Boom**

Use the lowest boom height that is compatible with the spray nozzles that will provide uniform coverage. For ground equipment, the boom must remain level with the crop and have minimal bounce.

#### **RELEASE HEIGHT - Aircraft**

Higher release heights increase the potential for spray drift.

#### **SHIELDED SPRAYERS**

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

#### TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce the effects of evaporation.

#### **TEMPERATURE INVERSIONS**

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing. Avoid applications during temperature inversions.

#### **WIND**

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS. Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

## Air-Assisted (Airblast) Field Crop Sprayers

It is the responsibility of the applicator to determine that a sprayer is suitable for the intended application, is configured properly, and that drift is not occurring. **Note:** Air assisted field sprayers can affect product performance by affecting spray coverage and canopy penetration. Consult the application equipment manufacturer and/or State Extension Service.

## Air-Assisted (Airblast) Orchard/Tree Nursery

In addition to the general drift management principles already described, the following specific practices will further reduce the potential for drift:

- Adjust deflectors and aiming devices so that spray is only directed into the canopy.
- Spray must be shut off during row turns.
- Block off upward pointed nozzles when there is no over-hanging canopy.
- Use only enough air volume to penetrate the canopy and provide good coverage.
- **DO NOT** allow spray to go beyond the edge of the cultivated area. Spray the outside downwind row(s) only from outside the planting.

#### POLLINATOR BEST PRACTICES (BMPS)

Following best management practices can help reduce risk to terrestrial pollinators. Examples of best management practices include applying pesticides in the evening and at night when pollinators are not foraging and checking to confirm hive locations before spraying. For additional resources on pollinator best management practices, visit <a href="https://www.epa.gov/pollinator-protection/find-best-management-practices-protect-pollinators">https://www.epa.gov/pollinator-protection/find-best-management-practices-protect-pollinators</a>.

Managed pollinator protection plans are developed by states/tribes to promote communication between growers, landowners, farmers, beekeepers, pesticide users, and other pest management professionals to reduce exposure of bees to pesticides. If available, visit state plans for additional information on how to protect pollinators.

## **How to Report Bee Kills**

It is advised that users contact both the state lead agency and the U.S. Environmental Protection Agency to report bee kills due to pesticide application. Bee kills can be reported to EPA at <a href="mailto:beekill@epa.gov">beekill@epa.gov</a>. To contact your state lead agency, see the current listing of state pesticide regulatory agencies at the National Pesticide Information Center's website: <a href="http://npic.orst.edu/reg/state-agencies.html">http://npic.orst.edu/reg/state-agencies.html</a>.

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## **CROP-SPECIFIC USE INSTRUCTIONS**

#### **Rate Conversion Chart**

Lb. a.i./Acre	Fl. oz./Acre	Pint/Acre	Treated acres/Gallon
0.0075	1.92	0.12	66
0.01	2.56	0.16	50
0.0125	3.20	0.20	40
0.015	3.84	0.24	33
0.02	5.12	0.32	25

Maximum Yearly Use Rates for Gamma and Lambda Cyhalothrin on Labeled Crops

Total Carry Coo Nates for Carry	Maximum rate for Either Product Used Alone (lb./a.i./acre) <sup>1</sup>			
CROP	Gamma-cyhalothrin (Sharda Gamma-Cyhalothrin 5.9% CS II)	Lambda-cyhalothrin (Includes any lambda-cyhalothrin product approved for crop uses) <sup>2</sup>		
Alfalfa	0.06	0.12		
Canola	0.045	0.09		
Cole crops	0.12	0.24		
Corn	0.06	0.12		
Sweet corn	0.24	0.48		
Cotton	0.1	0.2		
Fruiting vegetables (except cucurbits)	0.18	0.36		
Legume vegetables	0.06	0.12		
Lettuce (head and leaf)	0.15	0.3		
Okra	0.18	0.36		
Onion (bulb) and garlic	0.12	0.24		
Peanut	0.06	0.12		
Pistachios	0.08	0.16		
Pome fruits	0.1	0.2		
Rice	0.06	0.12		
Sorghum (grain)	0.04	0.08		
Soybean	0.03	0.06		
Stone fruits	0.1	0.2		
Sugarcane	0.08	0.16		
Sunflower	0.06	0.12		
Tobacco (air dried)	0.045	0.09		
Tree nuts including pecans	0.08	0.16		
Wheat, wheat hay and triticale	0.03	0.06		
Conifer and deciduous trees (plantations, nurseries and seed orchards)	0.12	0.24		
Non-cropland areas adjacent to crops	0.1	0.2		

NOTE: If both gamma-cyhalothrin and lambda-cyhalothrin are used on a crop during the same crop growing year, the amounts of each that can be used can be calculated as shown in the following examples:

**Example 1**: If the maximum use rate for lambda-cyhalothrin = 0.12 lb. a.i./acre/year and 0.06 lb. a.i. has been applied,  $(0.12 - 0.06) \div 2 = 0.03$  lb. a.i. of gamma-cyhalothrin could be applied during the remainder of the crop use year.

**Example 2:** If the maximum use rate for gamma-cyhalothrin = 0.06 lb. a.i./acre/year and 0.03 lb. a.i. has been applied,  $(0.06 - 0.03) \times 2 = 0.06$  lb. a.i. of lambda-cyhalothrin could be applied during the remainder of the crop use year.

#### ALFALFA, INCLUDING ALFALFA GROWN FOR SEED

PESTS	Sharda Gamma-Cyhalothrin 5.9% CS II RATE		
PE313	Lb. a.i./A	Fl. oz./A	
Alfalfa caterpillar			
Cutworm spp.	0.0075 - 0.0125	1.92 - 3.20	
Green cloverworm			

Includes any lambda-cyhalothrin product approved for crop uses.

2.56 - 3.84

3.84

Leafhopper spp. Looper spp.

Alfalfa weevil Armyworm

Corn earworm Cowpea aphid

Three-cornered alfalfa hopper Velvetbean caterpillar Webworm spp.

Alfalfa seed chalcid (adult)

Bean leaf beetle (adult) Blister beetle spp. Blue alfalfa aphid Clover leaf weevil spp. Clover root borer (adult) Clover root curculio spp. (adult) Clover stem borer (adult)

Cowpea curculio (adult) Cowpea weevil (adult) Cucumber beetle spp. (adult) Egyptian alfalfa weevil Fall armyworm<sup>1</sup>

Grape colaspis (adult) Grasshopper spp. Green June beetle (adult) Green peach aphid 3 Japanese beetle (adult) Meadow spittlebug Mexican bean beetle

Spotted alfalfa aphid Stink bug spp.

Sweet clover weevil (adult)

Pea aphid Pea weevil (adult)

Thrips spp. 4

el	rhalothrin 5.9 CS II, ABN: Guest Initial Draft Label Page <b>10</b> of <b>31</b>
1	

Use higher labeled rates for large larvae.

Plant bug spp., including Lygus spp. 3

Western yellow-striped armyworm White-fringed beetle spp. (adult) Yellow-striped armyworm Beet armyworm 13 Blotch leafminer <sup>3</sup>

Spider mites <sup>2</sup>

## **Precautions and Restrictions**

- **DO NOT** apply more than 0.015 lb. active ingredient (0.24 pint) per acre per cutting.
- **DO NOT** apply more than 0.06 lb. active ingredient (0.96 pint) per acre per year.
- Preharvest Interval: DO NOT apply within 1 day of harvest for forage or within 7 days of harvest for hay.

Apply only to fields planted to pure stands of alfalfa.

Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.

0.01 - 0.015

0.015

## **Foliar Application**



Follow application instructions as indicated in Bee Hazard Direction for Use.

Apply with ground or air equipment, using sufficient water to obtain full coverage of foliage. Apply in a minimum of 2 gallons per acre by

Suppression only.

See resistance statement under Use Precautions and Restrictions.

Does not include western flower thrips.

air or 10 gallons per acre by ground. When foliage is dense and/or pest populations are high, 5 to 10 gallons per acre by air or 20 gallons per acre by ground and higher label use rates are recommended. Use higher rates in labeled use rate range for increased residual control.

Avoid application when bees are actively foraging by applying during the early morning or during the evening hours. Be aware of bee hazard resulting from a cool evening and/or morning dew. It may be advisable to remove bee shelters during and for 2 to 3 days following application. Avoid direct application to bee shelters.

#### **CANOLA**

	Sharda Gamma-Cyhalothrin 5.9% CS II RATE		
PESTS	Lb. a.i./A	Fl. oz./A	
Armyworm spp.			
Cabbage seedpod weevil			
Cutworm spp.			
Diamondback moth	0.0075 0.015	1.02.2.94	
Flea beetle	0.0075 - 0.015	1.92- 3.84	
Grasshoppers			
Looper spp.			
Lygus bug			
Cabbage aphid	0.015	3.84	

#### **Precautions and Restrictions**

- **DO NOT** apply more than 0.045 lb. active ingredient (0.72 pint) per acre per year.
- Preharvest Interval: DO NOT apply within 7 days of harvest.

Apply as required by scouting, usually at intervals of 5 days or more. Timing and frequency of applications should be based upon insect populations reaching locally determined economic threshold.

## Foliar Application



Follow application instructions as indicated in Bee Hazard Direction for Use.

Apply with ground or air equipment using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gallons of water per acre.

## **COLE CROPS**

CROPS	DECTC	Sharda Gamma-Cyhalothrin 5.9% CS II RATE		
CROPS	PESTS	Lb. a.i./A	Fl. oz./A	
Brassica (head and stem), including but not limited to:  Broccoli Brussel sprouts Cabbage Cavalo broccoli	Alfalfa looper Cabbage looper Cabbage webworm Cutworm pp. Imported cabbageworm Southern cabbageworm	0.0075 - 0.0125	1.92 – 3.20	
Cauliflower Chinese broccoli (gai lon) Chinese cabbage (napa) Chinese mustard cabbage (gai choy) Kohlrabi	Aphid spp. <sup>2 3</sup> Armyworm  Beet armyworm <sup>1 3</sup> Corn earworm  Diamondback moth <sup>3</sup> Fall armyworm <sup>1</sup> Flea Beetle spp. Grasshopper spp. Japanese beetle (adult) Leafhopper spp. Meadow spittlebug Plant bug spp., including Lygus spp. <sup>3</sup> Spider mite spp. <sup>2</sup> Stink bug spp. Thrips spp. <sup>2</sup> Vegetable weevil (adult) Whitefly spp. <sup>2 3</sup> Yellow-striped armyworm	0.01 - 0.015	2.56 – 3.84	

<sup>&</sup>lt;sup>1</sup> For control of first and second instars only.

<sup>&</sup>lt;sup>2</sup> Suppression only.

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## See resistance statement under Use Precautions and Restrictions.

## **Precautions and Restrictions**

- **DO NOT** apply more than 0.12 lb. active ingredient (1.92 pints) per acre per year.
- Preharvest Interval: DO NOT apply within 1 day of harvest.

Apply as required by scouting, usually at intervals of 5 days or more. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.

## **Foliar Application**



Follow application instructions as indicated in Bee Hazard Direction for Use.

Apply with ground or air equipment, using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gallons of water per acre.

<b>CONIFER AND DECIDUOUS TREES (PLANTATIONS</b>	CONIFER AND DECIDUOUS TREES (PLANTATIONS, NURSERIES, AND SEED ORCHARDS)				
	Sharda Gamma-Cyhalothrin 5.9% CS II RATE				
PESTS	Lb. a.i./A	Fl. oz./A			
Bagworm					
Balsam twig aphid					
Balsam wooly aphid					
Birch leafminer					
Black pine weevil					
European elm bark beetle					
Gypsy moth					
Japanese beetle					
June beetle spp.					
Leaf beetle spp.					
Leafroller spp.					
May Beetle spp.					
Mealybug spp. (Suppression only)					
Pales weevil					
Pine chafer	0.01 - 0.02	2.56 – 5.12			
Pine colaspis beetle	0.01 0.02	2.30 3.12			
Pine conelet bug					
Pine leaf chermid					
Pine needle scale					
Pine sawfly spp.					
Pine tip moth spp.					
Pine tortoise scale					
Pine weevil spp.					
Poplar aphid spp.					
Sawfly spp.					
Spittlebug spp.					
Spruce budworm					
Tent Caterpillar spp.					
Tussock moth spp.					
Webworm spp.					
Coneworm spp.					
Seed bug spp.	See <b>Precautions and Restrictions</b> for	or pest-specific use instructions			
Thrips spp.					

DO NOT apply more than 0.12 lb. active ingredient (1.92 pints) per acre per year.

To control exposed foliage, flower, cone, seed and bark feeding insects, apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.

## **Foliar Application**



Follow application instructions as indicated in Bee Hazard Direction for Use.

Apply with ground or air equipment, using sufficient water to obtain full coverage of target site. When applying by air, apply in a minimum of 2 gallons of water per acre.

## Coneworm/Seed Bug/Thrips spp. in Seed Orchards:

• **DO NOT** apply more than 0.25 lb. active ingredient (4 pints) per acre per year.

For high volume sprayers, dilute 5.12 fl. oz. per 100 gallons of water and apply 5 to 10 gallons of finished spray per tree.

For low volume sprayers, dilute 20 fl. oz. per 100 gallons of water and apply 100 gallons of finished spray volume per acre.

For aerial application, apply 15 fl. oz. per acre in a minimum of 10 gallons of finished spray per acre.

### CORN (AT PLANT SOIL APPLICATION) - FIELD CORN, POPORN, SEED CORN, SWEET CORN

Sharda Gamma-Cyhalo	othrin 5.9% CS II RATE
Lb. a.i./A	Fl. oz./A
0.0025 lb. a.i. per	0.66 fl. oz. per
1000 ft. of row	1000 ft. of row
	<b>Lb. a.i./A</b> 0.0025 lb. a.i. per

<sup>&</sup>lt;sup>1</sup> Suppression only.

#### **Precautions and Restrictions**

- Pre-harvest Interval: DO NOT harvest or graze livestock or cut treated crops for feed within 21 days of at plant application.
- **DO NOT** apply more than 0.045 lb. active ingredient (0.72 pint) per acre per crop at plant. For field corn, popcorn, and seed corn, **DO NOT** apply more than 0.06 lb. active ingredient per acre per crop from at plant and foliar applications. For sweet corn, **DO NOT** apply more than 0.24 lb. active ingredient per acre per crop from at plant and foliar applications.

**Banded Applications**: Apply at planting as a 5 to 7 inch T-band sprayed across the open seed furrow between the furrow opener and the press wheel or as a band application behind the press wheel.

**In-Furrow Applications**: Apply into the seed furrow through spray nozzles or microtubes, behind the planter furrow opener and in front of the press wheel.

Apply a minimum spray volume of 3 gallons per acre.

Fluid Ounces and Pounds Active Ingredient per Acre of Sharda Gamma-Cyhalothrin 5.9% CS II Applied at 0.66 fl. oz. per 1000 ft. of Row for Various Row Spacings						
Row spacing	40"	38"	36"	34"	32"	30"
Linear ft./acre	13,068	13,756	14,520	15,374	16,335	17,424
Fl. oz./acre	3.4	3.6	3.8	4.0	4.3	4.6
Lb. a.i./acre	0.034	0.035	0.037	0.040	0.042	0.045

#### CORN (FOLIAR APPLICATION) - FIELD CORN, POPCORN, SEED CORN

PESTS	Sharda Gamma-Cyhalothrin 5.9% CS II RATE		
PE313	Lb. a.i./A	Fl. oz./A	
Corn earworm <sup>1</sup>	0.0075 - 0.0125	1.92 – 3.20	

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Cutworm spp.		
Green cloverworm		
Meadow Spittlebug		
Western bean cutworm <sup>1</sup>		
Armyworm <sup>2</sup>		
Bean leaf beetle		
Cereal leaf beetle		
Corn leaf aphid <sup>3</sup>		
English grain aphid <sup>3</sup>		
European corn borer <sup>1</sup>		
Fall armyworm <sup>2</sup>		
Flea beetle spp.		
Grasshopper spp.		
Hop vine borer <sup>1</sup>		
Japanese beetle (adult)		
Lesser cornstalk borer <sup>1</sup>	0.04 0.045	2.56 2.04
Mexican corn rootworm beetle <sup>6</sup>	0.01 - 0.015	2.56 – 3.84
Northern corn rootworm beetle <sup>6</sup>		
Oat bird-cherry aphid <sup>3</sup>		
Sap beetle (adult)		
Southern corn rootworm beetle <sup>6</sup>		
Southwestern corn borer <sup>1</sup>		
Stalk borer <sup>1</sup>		
Stink bug spp.		
Tobacco budworm 14		
Webworm spp.		
Western corn rootworm beetle <sup>6</sup>		
Yellow-striped armyworm <sup>2</sup>		
Beet armyworm <sup>24</sup>		
Chinch bug <sup>5</sup>		
Greenbug <sup>3 4</sup>		
Mexican rice borer <sup>1</sup>	0.015	3.84
Rice stalk borer <sup>1</sup>	0.012	5.84
Southern corn leaf beetle (Myochrous		
Denticollis) <sup>3</sup>		
Sugarcane borer <sup>1</sup>		
11	<del>-</del>	

<sup>&</sup>lt;sup>1</sup> For control before larvae bore into the plant stalk or ear.

- DO NOT allow livestock to graze in treated areas or harvest treated corn forage as food for meat or dairy animals within 1 day
  after last treatment. DO NOT feed treated corn fodder or silage to meat or dairy animals within 21 days after the last treatment.
- DO NOT apply more than 0.06 lb. active ingredient (0.96 pint) per acre per crop from at plant and foliar applications.
- **DO NOT** apply more than 0.03 lb. active ingredient (0.48 pint) after silk initiation.
- DO NOT apply more than 0.015 lb. active ingredient (0.24 pint) after corn has reached the milk stage (yellow kernels with milky fluid).
- Preharvest Interval: DO NOT apply within 21 days of harvest.

Apply as required by scouting, or locally prescribed corn growth stages, usually at intervals of 7 days or more. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds or other locally recommended methods.

## Foliar Application



Follow application instructions as indicated in Bee Hazard Direction for Use.

<sup>&</sup>lt;sup>2</sup> Use higher labeled rates for large larvae.

<sup>&</sup>lt;sup>3</sup> Suppression only

<sup>&</sup>lt;sup>4</sup> See resistance statement under **Use Precautions and Restrictions**.

<sup>&</sup>lt;sup>5</sup> For **chinch bug** control, begin applications when bugs migrate from small grains or grass weeds to small corn. Direct spray to the base of corn plants. Repeat applications at 3- to 5-day intervals if needed. **Sharda Gamma-Cyhalothrin 5.9% CS II** may only suppress heavy infestations and/or subsequent migrations.

<sup>&</sup>lt;sup>6</sup> For control of adult **corn rootworm beetles** (*Diabrotica* spp.) as part of an aerial-applied corn rootworm control program, use upper end of rate range at 3.84 fl. oz. per acre (0.015 lb. active ingredient per acre).

Apply with ground or air equipment, using sufficient water and application methods to obtain full coverage of target location. When applying by air, apply in a minimum of 2 gallons of water per acre.

**SWEET CORN (FOLIAR APPLICATION)** 

PESTS	Sharda Gamma-Cyha	alothrin 5.9% CS II RATE
PE313	Lb. a.i./A	Fl. oz./A
Aphid spp. <sup>2 3</sup>		
Aster leafhopper		
Beet armyworm <sup>1 3</sup>		
Chinch bug		
Common cornstalk borer		
Corn earworm		
Cutworm spp.		
European corn borer		
Fall armyworm <sup>1</sup>		
Flea beetle spp.		
Grasshopper spp.		
Japanese beetle (adult)		
Mexican corn rootworm beetle (adult)	0.01 - 0.015	2.56 – 3.84
Northern corn rootworm beetle (adult)		
Sap beetle (adult)		
Southern armyworm <sup>1</sup>		
Southern corn rootworm beetle (adult)		
Southwestern corn borer		
Spider mite spp. <sup>2</sup>		
Stink bug spp.		
Tarnished plant bug		
Webworm spp.		
Western bean cutworm		
Western corn rootworm beetle (adult)		
Yellow-striped armyworm <sup>1</sup>		
Corn silk fly (adult) <sup>2</sup>	0.015	3.84

<sup>&</sup>lt;sup>1</sup> Use higher labeled rates for large larvae.

#### **Precautions and Restrictions**

- **DO NOT** allow livestock to graze in treated areas or harvest treated corn forage as food for meat or dairy animals within 1 day after last treatment.
- DO NOT feed treated corn fodder or silage to meat or dairy animals within 21 days after the last treatment.
- DO NOT apply more than 0.24 lb. active ingredient (3.84 pints) per acre per crop from at plant and foliar applications.
- Preharvest Interval: DO NOT apply within 1 day of harvest.

Apply as required by scouting, or locally prescribed corn growth stages, usually at intervals of 4 days or more. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds or other locally recommended methods and should be targeted for control before insects enter the stalk or ear.

## **Foliar Application**



Follow application instructions as indicated in Bee Hazard Direction for Use.

Apply with ground or air equipment, using sufficient water and application methods to obtain full coverage of foliage and ears (if present). When applying by air, apply in a minimum of 2 gallons of water per acre. May be applied through chemigation in Illinois, Kansas, and Missouri.

For control of adult corn rootworm beetles (*Diabrotica* species) as part of an aerial-applied corn rootworm control program, use a minimum of 3.2 fl. oz. per acre (0.0125 lb. active ingredient per acre).

## **COTTON**

PESTS	Sharda Gamma-Cyhalothrin 5.9% CS II RATE	
PESIS	Lb. a.i./A	Fl. oz./A
Cutworm spp.		
Soybean thrips	0.0075 - 0.01	1.92 – 2.56
Tobacco thrips		

<sup>&</sup>lt;sup>2</sup> Suppression only.

<sup>&</sup>lt;sup>3</sup> See resistance statement under **Use Precautions and Restrictions**.

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Cabbage looper Cotton fleahopper Cotton leaf perforator Cotton leafworm Lygus bug spp. <sup>3</sup> Pink bollworm (adult) Saltmarsh caterpillar	0.01 - 0.015	2.56 – 3.84
Banded wing whitefly <sup>2 3</sup> Beet armyworm <sup>13</sup> Boll weevil Brown stink bug Cotton aphid <sup>2 3</sup> Cotton bollworm European corn borer Fall armyworm Green stink bug Southern green stink bug Sweet potato whitefly <sup>2 3</sup> Tobacco budworm <sup>3</sup> Two-spotted spider mite <sup>2</sup>	0.0125 - 0.02	3.20 – 5.12

<sup>&</sup>lt;sup>1</sup> For control of first and second instars only.

- **DO NOT** graze livestock in treated areas.
- **DO NOT** apply more than 1.6 pints (0.1 lb. active ingredient) per acre per year.
- **DO NOT** make more than a total of 10 synthetic pyrethroid applications (of one product or combination of products) to a cotton crop in one growing year.
- Preharvest Interval: DO NOT apply within 21 days of harvest.

Apply as required by scouting, usually at intervals of 5 to 7 days. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.

## **Foliar Application**



Follow application instructions as indicated in Bee Hazard Direction for Use.

Apply with ground or air equipment, using sufficient water to obtain full coverage of foliage.

Applications may also be made with equipment adapted and calibrated for ULV sprays. Sharda Gamma-Cyhalothrin 5.9% CS II may be mixed with once-refined vegetable oil and applied in a minimum of at least 1 quart of finished spray per acre.

Under light bollworm/budworm infestation levels, 0.01 lb. active ingredient per acre may be applied in conjunction with intense field monitoring.

For boll weevil control, spray on a 3- to 5-day schedule.

When applied according to label directions for control of cotton bollworm and tobacco budworm, **Sharda Gamma-Cyhalothrin 5.9% CS II** also provides ovicidal control of unhatched *Heliothis* spp. eggs.

## FRUITING VEGETABLES (EXCEPT CUCURBITS)

FRUITING VEGETABLES	PESTS	Sharda Gamma-Cyhalothrin 5.9% CS II RATE	
FROITING VEGETABLES	PESIS	Lb. a.i./A	Fl. oz./A
Tomato	Cabbage looper		
Tomatillo	Cutworm spp.	0.0075 - 0.0125	1.92 – 3.20
Peppers (bell and non-	Hornworm spp.		
bell)	Aphid spp. <sup>2 3</sup>		
Eggplant	Beet armyworm 13		
Ground cherry	Blister beetle spp.		
Okra	Colorado potato beetle <sup>3</sup>	0.01 - 0.015	2.56 – 3.84
Pepino	Cucumber beetle spp. (adult)		
	European corn borer 4		
	Fall armyworm <sup>1</sup>		

<sup>&</sup>lt;sup>2</sup> Suppression only.

<sup>&</sup>lt;sup>3</sup> See resistance statement under **Use Precautions and Restrictions**.

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Flea beetle spp.	
Grasshopper spp.	
Japanese beetle (adult)	
Leafhopper spp.	
Leafminer spp. <sup>2</sup>	
Meadow spittlebug	
Pepper weevil (adult) <sup>2</sup>	
Plant bug spp.	
Southern armyworm <sup>1</sup>	
Spider mite spp. <sup>2</sup>	
Stalk borer <sup>4</sup>	
Stink bug spp.	
Thrips 3 5	
Tobacco budworm <sup>3</sup>	
Tomato fruit worm	
Tomato pinworm	
Tomato psyllid <sup>2 3</sup>	
Vegetable weevil (adult)	
Whitefly spp. <sup>2 3</sup>	
Yellow-striped armyworm <sup>1</sup>	
For control of first and second instance only	

For control of first and second instars only.

- **DO NOT** apply more than 0.18 lb. active ingredient (2.88 pints) per acre per year.
- **Preharvest Interval: DO NOT** apply within 5 days of harvest.

Apply as required by scouting, usually at intervals of 5 days or more. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.

## **Foliar Application**



Follow application instructions as indicated in Bee Hazard Direction for Use.

Apply with ground or air equipment, using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gallons of water per acre.

#### LEGUME VEGETABLES

CDOD (VARIETY		Sharda Gamma-Cyhalothrin 5.9% CS II RATE	
CROP/VARIETY	PESTS	Lb. a.i./A	Fl. oz./A
dible podded (only)	Cutworm spp.		
Canavalia gladiata – sword bean Canavalia ensiformis jackbean Glycine max -	Green cloverworm Imported cabbageworm Mexican bean beetle Saltmarsh caterpillar Velvetleaf caterpillar	0.0075 - 0.0125	1.92- 3.20
soybean - immature seed  dible podded, succulent nelled or dried shelled  Phaseolus spp includes: field, kidney, lima, navy, pinto, runner, snap,	Alfalfa caterpillar Aphid spp. <sup>4</sup> Armyworm <sup>2</sup> Bean leaf beetle Bean leaf skeletonizer Blister beetle spp. Corn earworm Corn rootworm		
tepary and wax beans  Vigna spp. — includes: adzuki, asparagus, moth, mung, rice, urd and yard-long beans, black-eye pea, catjang, Chinese long	Beetle spp. (adult) Cucumber beetle spp. (adult) Curculio and weevil spp. <sup>1</sup> (foliage and pod feeding adults and larvae) European corn borer <sup>1</sup> Fall armyworm <sup>2</sup>	0.01 - 0.015	2.56- 3.84

<sup>&</sup>lt;sup>2</sup> Suppression only.

<sup>&</sup>lt;sup>3</sup> See resistance statement under **Use Precautions and Restrictions**.

<sup>&</sup>lt;sup>4</sup> For control before larvae bore into the plant stalk or fruit.

<sup>&</sup>lt;sup>5</sup> Does not include western flower thrips.

		Page <b>18</b> of <b>31</b>
Flea beetle spp. (adult)		
Flea hopper spp.		
Grasshopper spp.		
Japanese beetle (adult)		
Leafhopper spp.		
Leaftier spp.		
Looper spp.		
Meadow spittlebug		
Painted lady butterfly (larvae)		
Plant bug spp. including lygus spp. 4		
Stalk borer <sup>1</sup>		
Stink bug spp.		
Three-cornered alfalfa hopper		
Thrips spp. 4 5		
Tobacco budworm <sup>4</sup>		
Webworm spp.		
Western bean cutworm		
Western yellow-striped		
	0.015	3.84
	0.013	5.64
Spider mite spp. <sup>3</sup>		
	Flea hopper spp. Grasshopper spp. Japanese beetle (adult) Leafhopper spp. Leaftier spp. Looper spp. Meadow spittlebug Painted lady butterfly (larvae) Plant bug spp. including lygus spp. <sup>4</sup> Stalk borer <sup>1</sup> Stink bug spp. Three-cornered alfalfa hopper Thrips spp. <sup>4 5</sup> Tobacco budworm <sup>4</sup> Webworm spp. Western bean cutworm Western yellow-striped armyworm <sup>2</sup> Yellow-striped armyworm <sup>3 4</sup> Soybean looper <sup>3 4</sup> Lesser cornstalk borer <sup>3</sup> Leafminer spp. <sup>3 4</sup> Whitefly spp. <sup>3 4</sup>	Flea hopper spp. Grasshopper spp. Japanese beetle (adult) Leafhopper spp. Looper spp. Looper spp. Meadow spittlebug Painted lady butterfly (larvae) Plant bug spp. including lygus spp. Stalk borer 1 Stink bug spp. Three-cornered alfalfa hopper Thrips spp. 4 5 Tobacco budworm 4 Webworm spp. Western bean cutworm Western yellow-striped armyworm 2 Yellow-striped armyworm 2 Beet armyworm 3 4 Soybean looper 3 4 Lesser cornstalk borer 3 Leafminer spp. 3 4 Whitefly spp. 3 4

<sup>&</sup>lt;sup>1</sup> For control before larvae bore into the plant stalk or pods.

- **DO NOT** apply more than 0.06 lb. active ingredient (0.96 pint) per acre per year.
- For succulent and dried shelled peas and beans, DO NOT graze livestock in treated areas or harvest vines for forage or hay.
- **Preharvest Interval**: For edible podded and succulent shelled legume vegetables, **DO NOT** apply within 7 days of harvest. For dried shelled legume vegetables, **DO NOT** apply within 21 days of harvest.

## **Foliar Application**



Follow application instructions as indicated in Bee Hazard Direction for Use.

Apply as required by scouting, usually at intervals of 5 days or more. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.

Apply with ground or air equipment, using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gallons of water per acre.

## **LETTUCE (HEAD AND LEAF)**

PESTS	Sharda Gamma-Cyha	Sharda Gamma-Cyhalothrin 5.9% CS II RATE		
PE313	Lb. a.i./A	Fl. oz./A		
Alfalfa looper				
Cabbage looper				
Cutworm spp.	0.0075 - 0.0125	1.92 – 3.20		
Green cloverworm	0.0075 - 0.0125	1.32 3.20		
Imported cabbageworm				
Saltmarsh caterpillar				
Aphid spp. <sup>23</sup>				
Armyworm				
Beet armyworm <sup>13</sup>	0.01 - 0.015	2.56 – 3.84		
Corn earworm				
Diamondback moth <sup>3</sup>				

<sup>&</sup>lt;sup>2</sup> Use higher labeled rates for large larvae.

<sup>&</sup>lt;sup>3</sup> Suppression only.

<sup>&</sup>lt;sup>4</sup> See resistance statement under **Use Precautions and Restrictions**.

<sup>&</sup>lt;sup>5</sup> Does not include western flower thrips.

	Page <b>19</b> of <b>31</b>
European corn borer	
Fall armyworm <sup>1</sup>	
Flea beetle spp.	
Grasshopper spp.	
Japanese beetle (adult)	
Leafhopper spp.	
Meadow spittlebug	
Plant bug spp., including Lygus spp. <sup>3</sup>	
Southern armyworm	
Spider mite spp. <sup>2</sup>	
Stink bug spp.	
Tobacco budworm <sup>3</sup>	
Vegetable weevil (adult)	
Whitefly spp. <sup>2 3</sup>	

<sup>&</sup>lt;sup>1</sup> For control of first and second instars only.

- **DO NOT** apply more than 0.15 lb. active ingredient (2.4 pints) per acre per year.
- Preharvest Interval: DO NOT apply within 1 day of harvest.

Apply as required by scouting, usually at intervals of 5 days or more. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.

## **Foliar Application**



Follow application instructions as indicated in Bee Hazard Direction for Use.

Apply with ground or air equipment, using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gallons of water per acre.

## **OKRA**

DECTE	Sharda Gamma-Cyhalothrin 5.9% CS II RATE		
PESTS	Lb. a.i./A	Fl. oz./A	
Cabbage looper			
Cutworm spp.	0.0075 - 0.0125	1.92 - 3.20	
Hornworm spp.			
Aphid spp. <sup>2 3</sup>			
Beet armyworm <sup>13</sup>			
Blister beetle spp.			
Colorado potato beetle <sup>3</sup>			
Cucumber beetle spp. (adult)			
European corn borer <sup>4</sup>			
Fall armyworm <sup>1</sup>			
Flea beetle spp.			
Japanese beetle (adult)			
Leafhopper spp.			
Leafminer spp. <sup>2</sup>			
Meadow spittlebug	0.01 - 0.015	2.56 - 3.84	
Pepper weevil (adult) <sup>2</sup>			
Plant bug spp.			
Southern armyworm <sup>1</sup>			
Spider mite spp. (2) stalk borer <sup>4</sup>			
Stink bug spp.			
Thrips <sup>3 5</sup>			
Гоbacco budworm <sup>3</sup>			
Tomato fruitworm			
Tomato pinworm			
Tomato psyllid <sup>2 3</sup> '			
Vegetable weevil (adult)			

<sup>&</sup>lt;sup>2</sup> Suppression only.

<sup>&</sup>lt;sup>3</sup> See resistance statement under **Use Precautions and Restrictions**.

Sharda Gamma-Cyhalothrin 5.9 CS II, ABN: Guest

	1 486 20 01 01
Whitefly spp. <sup>2 3</sup>	
Yellow-striped armyworm <sup>1</sup>	

<sup>1</sup> For control of first and second instars only.

- <sup>3</sup>See resistance statement under **Use Precautions and Restrictions** on container label.
- <sup>4</sup> For control before larvae bore into the plant stalk or fruit.
- <sup>5</sup> Does not include western flower thrips.

#### **Precautions and Restrictions**

- DO NOT apply more than 0.18 lb active ingredient (2.88 pints) per acre per year.
- Preharvest Interval: DO NOT apply within 5 days of harvest.

#### **Foliar Application**



Follow application instructions as indicated in Bee Hazard Direction for Use.

Apply as required by scouting, usually at intervals of 5 days or more. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.

Apply with ground or air equipment, using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gallons of water per acre.

## ONION (BULB) AND GARLIC

DECTC	Sharda Gamma-Cyhalothrin 5.9% CS II RATE		
PESTS	Lb. a.i./A	Fl. oz./A	
Cutworm spp. Leafminer spp. (adult) Onion maggot (adult) Seedcorn maggot (adult)	0.0075 - 0.0125	1.92 – 3.20	
Aphid spp. <sup>2</sup> Armyworm spp. <sup>1</sup> Flower thrips <sup>2</sup> Onion thrips Plant bug spp. Stink bug spp. Tobacco thrips Western flower thrips <sup>2 3</sup>	0.01 - 0.015	2.56 – 3.84	

<sup>&</sup>lt;sup>1</sup> For control of first and second instars only.

## Precautions and Restrictions

- **DO NOT** apply more than 0.12 lb. active ingredient (1.92 pints) per acre per year.
- Preharvest Interval: DO NOT apply within 14 days of harvest.

Apply as required by scouting, usually at intervals of 5 days or more. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.

## **Foliar Application**



Follow application instructions as indicated in Bee Hazard Direction for Use.

Apply with ground or air equipment, using sufficient water and application methods to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gallons of water per acre.

Remarks: Use the higher label rates as thrips population increases and avoid rescue situations.

For control of thrips by aerial application, the addition of 1% COC v/v, 0.25% NIS v/v or a silicone adjuvant may enhance the deposition of the spray and increase plant coverage. Follow adjuvant manufacturer's use directions.

<sup>&</sup>lt;sup>2</sup>Suppression only.

<sup>&</sup>lt;sup>2</sup> Suppression only.

<sup>&</sup>lt;sup>3</sup> See resistance statement under **Use Precautions and Restrictions**.

#### **PEANUT**

DECTC	Sharda Gamma-Cyhalothrin 5.9% CS II RATE		
PESTS	Lb. a.i./A	Fl. oz./A	
Cutworm spp.			
Green cloverworm			
Potato leafhopper	0.0075 - 0.0125	1.92 – 3.20	
Red-necked peanut worm	0.0073 - 0.0123	1.92 – 3.20	
Three cornered alfalfa hopper			
Velvetbean caterpillar			
Bean leaf beetle			
Corn earworm			
Fall armyworm <sup>1</sup>			
Grasshopper spp.			
Southern corn rootworm (adult)	0.01 - 0.015	2.56 – 3.84	
Stink bug spp.			
Tobacco thrips			
Vegetable weevil			
White fringed beetle (adult)			
Aphid spp. <sup>2</sup>			
Beet armyworm <sup>1 3</sup>			
Lesser cornstalk borer <sup>2</sup>	0.015	3.84	
Soybean looper <sup>2 3</sup>			
Spider mite spp. <sup>2</sup>			
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<sup>&</sup>lt;sup>1</sup> Use higher rates for large larvae.

## **Precautions and Restrictions**

- **DO NOT** apply more than 0.06 lb. active ingredient (0.96 pint) per acre per year.
- Preharvest Interval: DO NOT apply within 14 days of harvest.

Apply as required by scouting, usually at intervals of 7 days or more. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.

## **Foliar Application**



Follow application instructions as indicated in Bee Hazard Direction for Use.

Apply with ground or air equipment, using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gallons of water per acre.

## **PISTACHIOS**

DECTC	Sharda Gamma-Cyhalothrin 5.9% CS II RATE		
PESTS	Lb. a.i./A	Fl. oz./A	
Ants Chinch bug Codling moth Filbertworm Leaflooted bug Leafroller spp. Navel orangeworm Peach twig borer Plant bug spp. Stink bug spp. Walnut aphid	0.01 - 0.02	2.56 - 5.12	
Walnut husk fly spp. (adult)			

## **Precautions and Restrictions**

- **DO NOT** apply more than 0.08 lb. active ingredient (1.28 pints) per acre per year.
- DO NOT apply more than 0.06 lb. active ingredient (0.96 pint) per acre per year post bloom.
- Preharvest Interval: DO NOT apply within 14 days of harvest.

<sup>&</sup>lt;sup>2</sup> Suppression only.

<sup>&</sup>lt;sup>3</sup> See resistance statement under Use Precautions and Restrictions.

## Foliar Application



Follow application instructions as indicated in Bee Hazard Direction for Use.

Apply as required by scouting, usually at intervals of 5 days or more. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.

Apply with ground or air equipment, using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 5 gallons of water per acre.

#### **POME FRUITS**

CROP PESTS -		Sharda Gamma-Cyhalo	thrin 5.9% CS II RATE
CROP	PESIS	Lb. a.i./A	Fl. oz./A
Apple	Apple aphid		
Crabapple	Apple maggot (adult)		
Loquat	Cherry fruit fly spp. (adult)		
Mayhaw	Codling moth		
Oriental pear	Green fruitworm		
Pear	Japanese beetle		
Quince	Leafhopper spp.		
	Leafroller spp.		
	Lesser appleworm		
	Omnivorous leafroller		
	Orange tortrix		
	Oriental fruit moth		
	Pear psylla <sup>1</sup>	0.01 - 0.02	2.56 - 5.12
	Pear sawfly		
	Periodical cicada		
	Plant bug spp.		
	Plum curculio		
	Rosy apple aphid		
	San Jose scale (fruit infestations only)		
	Spirea aphid <sup>1</sup>		
	Stink bug spp.		
	Tent caterpillar spp.		
	Tentiform leaf miner spp.		
i	Tree borer spp.		
	Tufted apple budworm		

## <sup>1</sup> Suppression only.

## **Precautions and Restrictions**

- **DO NOT** apply more than 1.6 pints (0.1 lb. active ingredient) per acre per year. **DO NOT** apply more than 0.08 lb. active ingredient (1.28 pints) per acre per year post bloom.
- Preharvest interval: DO NOT apply within 21 days of harvest.

Apply as required by scouting, usually at intervals of 5 days or more. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds and IPM recommendations.

## **Foliar Application**



Follow application instructions as indicated in Bee Hazard Direction for Use.

Apply with ground or air equipment, using sufficient water to obtain full coverage of foliage or target area. When applying by air, apply in a minimum of 5 gallons of water per acre, but use higher volumes as appropriate for thorough coverage.

#### RICE

DECTC	Sharda Gamma-Cyhalothrin 5.9% CS II RATE	
PESTS	Lb. a.i./A	Fl. oz./A
Bird cherry-oat aphid		
Chinch bug		
European corn borer <sup>1</sup>		
Fall armyworm		
Grasshopper spp.		
Greenbug		
Leafhopper spp.		
Mexican rice borer <sup>1</sup>		3.20 – 5.12
Rice seed midge	0.0125 - 0.02	
Rice stalk borer		
Rice stink bug		
Rice water weevil (adult)		
Sharpshooter spp.		
Sugarcane borer <sup>1</sup>		
True armyworm		
Yellow-striped armyworm		
Yellow sugarcane aphid		

<sup>1</sup> For control before larvae bore into the plant stalk.

#### **Precautions and Restrictions**

- **DO NOT** release flood water within 7 days of an application.
- **DO NOT** apply more than 0.06 lb. active ingredient (0.96 pint) per acre per year. **DO NOT** apply more than 0.04 lb. active ingredient (0.64 pint) per acre within 28 days of harvest or more than 0.02 lb. active ingredient (0.32 pint) per acre within 21 days of harvest.
- **DO NOT** use treated rice fields for the aquaculture of edible fish and crustaceans.
- DO NOT apply as an ultra-low volume (ULV) spray.
- Preharvest Interval: DO NOT apply within 21 days of harvest.

Apply as required by scouting. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds. Determine the need for repeat applications, usually at intervals of 5 to 7 days, by scouting. **Sharda Gamma-Cyhalothrin 5.9% CS II** can be used safely when propanil products are being used for weed control.

## **Foliar Application**



Follow application instructions as indicated in Bee Hazard Direction for Use.

Apply by air or by ground equipment, using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gallons of water (or total carrier volume) per acre, but ensure sufficient volume is used to provide adequate coverage. The addition of emulsifiable crop oil at 1 pint per acre when lower aerial application volumes are used is recommended to improve coverage, reduce evaporation, and improve efficacy.

#### Remarks:

For control of rice water weevil in dry seeded rice, make a foliar application as indicated by scouting for the presence of adults and/or feeding scars, usually within a time-frame of 0 to 5 days after permanent flood establishment. **DO NOT** exceed 10 days from starting permanent flood until insecticide application unless scouting indicates weevils have not been previously present. Adults may also be treated at later stages of rice development to reduce overwintering populations.

For control of rice water weevil in water-seeded rice, make the first foliar application after pinpoint flood as indicated by scouting for the presence of adults and/or feeding scars usually when rice has emerged 0.5 inch above the waterline. Under conditions of prolonged migration into the field, start field scouting for rice water weevil adults and/or feeding scars 3 to 5 days after the initial treatment and, if needed, apply a second application within 7 to 10 days of the first application. Adults may also be treated at later stages of rice development to reduce over-wintering populations.

California: In addition to above directions for control of rice water weevil in water seeded rice, **Sharda Gamma-Cyhalothrin 5.9% CS II** may be applied at the 1 to 3 leaf growth stage, with the majority at the 2 leaf growth stage. Adults are vulnerable on levees and in the water. Larvae are vulnerable while feeding on the leaf prior to entering the soil. Monitor for adults, based upon field history and density of population. Monitor field edges and levee areas for adults. Treat in the following manner: a) spray the inside perimeter of the field, or b) spray the entire field.

For control of stem borers, scout fields, when rice growth is near panicle differentiation, for early symptoms of damaging populations exhibited as discoloration (orange-tan) around the junction of the leaf sheath and blade which is caused by feeding of young larvae within the sheath. Applications must be made before larvae bore into rice stems. Make the first application at panicle differentiation to 2 inch

panicle for partial control. Make the second application at boot to heading for maximum control. All rice varieties are susceptible to stemborer damage, but Cocodrie and Priscilla are particularly susceptible.

Greenbug is known to have many biotypes. **Sharda Gamma-Cyhalothrin 5.9% CS II** may provide only suppression. If satisfactory control is not achieved with the first application of **Sharda Gamma-Cyhalothrin 5.9% CS II**, a resistant biotype may be present. Use alternate chemistry for control.

**SORGHUM (GRAIN)** 

PESTS	Sharda Gamma-Cyhalo	Sharda Gamma-Cyhalothrin 5.9% CS II RATE		
PE313	Lb. a.i./A	Fl. oz./A		
Cutworm spp. Sorghum midge	0.0075 - 0.01	1.92 – 2.56		
Armyworm  Beet armyworm 13  Corn earworm  European corn borer 2  Fall armyworm 1  Flea beetle spp.  Grasshopper spp.  Lesser cornstalk borer 2  Southwestern corn Borer 2  Stink bug spp.  Webworm spp.  Yellow-striped armyworm 1	0.01 - 0.015	2.56 – 3.84		
Chinch bug Mexican rice borer <sup>2</sup> Rice stalk borer <sup>2</sup> Sugarcane borer <sup>2</sup>	0.015	3.84		

<sup>&</sup>lt;sup>1</sup> Use higher rates for large larvae.

#### **Precautions and Restrictions**

- **DO NOT** apply more than 0.04 lb. active ingredient (0.64 pint) per acre per year.
- DO NOT apply more than 0.03 lb. active ingredient (0.48 pint) per acre per year after crop emergence.
- **DO NOT** apply more than 0.01 lb. active ingredient (0.16 pint) per acre per year once crop is in soft dough stage.
- Preharvest Interval: DO NOT apply within 30 days of harvest.

Apply as required by scouting, usually at intervals of 5 days or more. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.

## **Foliar Application**



Follow application instructions as indicated in Bee Hazard Direction for Use.

Apply with ground or air equipment, using sufficient water and application methods to obtain full coverage of target location. When applying by air, apply in a minimum of 2 gallons of water per acre.

For sorghum midge control, begin applications when 25% of the sorghum heads have emerged and are in tip bloom. Repeat applications at 5-day intervals if needed.

For chinch bug control, begin applications when bugs migrate from small grains or grass weeds to small sorghum. Direct spray to the base of sorghum plants. Repeat applications at 3- to 5-day intervals if needed. **Sharda Gamma-Cyhalothrin 5.9% CS II** may only suppress heavy infestations and/or subsequent migrations.

<sup>&</sup>lt;sup>2</sup> For control before larvae bore into the plant stalk.

<sup>&</sup>lt;sup>3</sup> See resistance statement under Use Precautions and Restrictions.

PESTS	Sharda Gamma-Cyhalothrin 5.9% CS II RATE		
PESIS	Lb. a.i./A	Fl. oz./A	
Bean leaf beetle Cabbage looper Corn earworm			
Cutworm spp. Green cloverworm Mexican bean beetle Mexican corn rootworm beetle (adult) Northern corn rootworm beetle (adult) Painted lady (thistle) caterpillar Potato leafhopper Saltmarsh caterpillar Southern corn rootworm beetle (adult) Soybean aphid <sup>4</sup> Three-cornered alfalfa hopper Thrips spp. <sup>5</sup> Velvetbean caterpillar Western corn rootworm beetle (adult) Woolly bear caterpillar	0.0075 - 0.0125	1.92 – 3.20	
Armyworm <sup>1</sup> Blister beetle spp. European corn borer Fall armyworm <sup>1</sup> Grasshopper spp. Japanese beetle (adult) Plant bug spp. Silver-spotted skipper Stink bug spp. Tobacco budworm <sup>3</sup> Webworm spp. Yellow-striped armyworm <sup>1</sup>	0.0125 - 0.015	3.20 – 3.84	
Beet armyworm <sup>3</sup> Lesser cornstalk borer <sup>2</sup> Soybean looper <sup>23</sup> Spider mite spp. <sup>2</sup>	0.015	3.84	

<sup>&</sup>lt;sup>1</sup> Use higher labeled rates for large larvae.

- **DO NOT** graze or harvest treated soybean forage, straw, or hay for livestock feed.
- **DO NOT** apply more than 0.03 lb. active ingredient (0.19 pint) per acre per year.
- Preharvest Interval: DO NOT apply within 45 days of harvest.

Apply as required by scouting, usually at intervals of 5 days or more. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.

## **Foliar Application**



Follow application instructions as indicated in Bee Hazard Direction for Use.

Apply with ground or air equipment, using sufficient water to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gallons of water per acre.

For control of adult corn rootworm beetles (*Diabrotica* species) as part of an aerial-applied corn rootworm control program, use a minimum of 2.56 fl. oz. per acre (0.01 lb. active ingredient per acre.

<sup>&</sup>lt;sup>2</sup> Suppression only.

<sup>&</sup>lt;sup>3</sup> See resistance statement under **Use Precautions and Restrictions**.

<sup>&</sup>lt;sup>4</sup> Use a rate in the lower end of the rate range for early year applications and/or lighter populations.

<sup>&</sup>lt;sup>5</sup> Does not include western flower thrips.

CROP	PESTS	Sharda Gamma-Cyhalothrin 5.9% CS II RATE	
CROP	PE313	Lb. a.i./A	Fl. oz./A
Apricot Sweet and tart cherry Nectarine Peach Plum Chickasaw plum Damson plum Japanese plum Plumcot Prune	American plum borer Apple maggot (adult) Black cherry aphid Cherry fruit fly spp. (adult) Codling moth Green fruitworm Japanese beetle June beetle Leafhopper spp. Leafroller spp. Oriental fruit moth Peachtree borer spp. Peach twig borer Pear sawfly Periodical cicada Plant bug spp. Plum curculio Rose chafer Stink bug spp. Tent caterpillar spp. Thrips spp.	0.01 - 0.02	2.56 – 5.12

- **DO NOT** apply more than 1.6 pints (0.1 lb. active ingredient) per acre per year.
- **DO NOT** apply more than 0.08 lb. active ingredient (1.28 pints) per acre per year post bloom.
- **Preharvest interval: DO NOT** apply within 14 days of harvest.

Apply as required by scouting, usually at intervals of 5 days or more. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds and IPM recommendations.

## **Foliar Application**



Follow application instructions as indicated in Bee Hazard Direction for Use.

Apply with ground or air equipment, using sufficient water to obtain full coverage of foliage or target area. When applying by air, apply in a minimum of 5 gallons of water per acre, but use higher volumes as appropriate for thorough coverage.

#### **SUGARCANE**

DECTC	Sharda Gamma-Cyhalothrin 5.9% CS II RATE		
PESTS	Lb. a.i./A	Fl. oz./A	
Mexican rice borer <sup>1</sup>			
Pygmy mole cricket			
Rice borer <sup>1</sup>	0.0125 - 0.02		
Sugarcane aphid <sup>3</sup>		3.2 – 5.12	
Sugarcane beetle (adult) <sup>2</sup>	0.0125 - 0.02	3.2 3.12	
Sugarcane borer <sup>1</sup>			
Yellow sugarcane aphid <sup>3</sup>			
West Indian cranefly			

For control before larvae bore into the plant stalk.

<sup>&</sup>lt;sup>2</sup> Suppression only of beetles active above ground.

<sup>&</sup>lt;sup>3</sup> See resistance statement under Use Precautions and Restrictions.

- DO NOT apply more than 0.08 lb. active ingredient (1.28 pints) per acre per year.
- Preharvest Interval: DO NOT apply within 21 days of harvest.

Apply as required by scouting, usually at intervals of 7 days or more. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.

## **Foliar Application**



Follow application instructions as indicated in Bee Hazard Direction for Use.

Apply with ground or air equipment, using sufficient water to obtain full coverage of the foliage or target area. When applying by air, apply in a minimum of 2 gallons of water per acre.

#### **SUNFLOWER**

PESTS	Sharda Gamma-Cyhalothrin 5.9% CS II RATE		
PE313	Lb. a.i./A	Fl. oz./A	
Cutworm spp. Sunflower beetle	0.0075 - 0.0125	1.92 – 3.20	
Banded sunflower moth			
Fall armyworm <sup>1</sup>			
Grasshopper spp.			
Head-clipper weevil (adult)			
Japanese beetle (adult)			
Leafhopper spp.			
Meadow spittlebug			
Painted lady (thistle) caterpillar	0.01 - 0.015	2.56 – 3.84	
Seed weevil (adult)			
Spotted cabbage looper			
Stem weevil (adult)			
Stink bug spp.			
Sunflower maggot (adult)			
Sunflower moth			
Woolly bear caterpillar			
Beet armyworm <sup>3</sup>	0.015	3.84	
Spider mite spp. <sup>2</sup>			

<sup>&</sup>lt;sup>1</sup> For control of first and second instars only.

#### **Precautions and Restrictions**

- **DO NOT** apply more than 0.06 lb. active ingredient (0.96 pint) per acre per year.
- DO NOT apply more than 0.045 lb. active ingredient (0.72 pint) per acre per year after bloom initiation.
- **DO NOT** apply as an ultra-low volume (ULV) spray.
- **Preharvest Interval**: **DO NOT** apply within 45 days of harvest.

Apply as required by scouting, usually at intervals of 5 days or more. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.

## **Foliar Application**



Follow application instructions as indicated in Bee Hazard Direction for Use.

Apply with ground or air equipment, using sufficient water to obtain full coverage of sunflower heads and/or foliage. When applying by air, apply in a minimum of 2 gallons of water per acre.

<sup>&</sup>lt;sup>2</sup> Suppression only.

<sup>&</sup>lt;sup>3</sup> See resistance statement under **Use Precautions and Restrictions**.

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#### TOBACCO (AIR DRIED) - BURLEY AND FLUE-CURED

DECTC	Sharda Gamma-Cyhalothrin 5.9% CS II RATE		
PESTS	Lb. a.i./A	Fl. oz./A	
Aphid spp. <sup>2 3</sup>			
Armyworm spp. <sup>1</sup>			
Blister beetle spp.			
Cabbage looper			
Corn earworm			
Cucumber beetle spp. (adult)			
Cutworm spp.			
Grasshopper spp.			
Japanese beetle (adult)			
Katydid spp.	0.0075 - 0.015	1.92 – 3.84	
Plant bug spp. <sup>3</sup>	0.0073 - 0.013	1.52 5.04	
Saltmarsh caterpillar			
Stinkbug spp.			
Thrips spp. <sup>2</sup>			
Tobacco budworm			
Tobacco flea beetle (adult)			
Tobacco hornworm			
Tree cricket spp.			
Vegetable weevil (adult)			
Webworm spp.			

<sup>&</sup>lt;sup>1</sup> For control of first and second instars only.

## **Precautions and Restrictions**

- **DO NOT** apply more than 0.045 lb. active ingredient (0.72 pint) per acre per year.
- Preharvest Interval: DO NOT apply within 40 days of harvest.

Apply as required by scouting, usually at intervals of 7 days or more. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.

## **Foliar Application**



Follow application instructions as indicated in Bee Hazard Direction for Use.

Apply with ground or air equipment, using sufficient water to obtain full coverage of the foliage. When applying by air, apply in a minimum of 2 gallons of water per acre.

## TREE NUTS (INCLUDING PECANS)

CDODS	DECTC	Sharda Gamma-Cyhalothrin 5.9% CS II RATE	
CROPS	PESTS	Lb. a.i./A	Fl. oz./A
Almond	Ants		
Beech nut	Chinch bug		
Black walnut	Codling moth		
Brazil nut	Filbertworm		
Butternut	Leaf-footed bug		
Cashew	Leafroller spp.	0.01 - 0.02	2.56 – 5.12
Chestnut	Navel orangeworm	0.01 - 0.02	2.50 – 5.12
Chinquapin	Peach twig borer		
English walnut (Persian)	Plant bug spp.		
Filbert (hazelnut)	Stink bug spp.		
Hickory nut	Walnut aphid		
Macadamia nut (bush nut)	Walnut husk fly spp. (adult)		
Pecan	Hickory shuckworm		
	Pecan aphid spp.		
	Pecan casebearer spp.		
	Pecan phylloxera spp.	0.01 - 0.02	2.56 – 5.12
	Pecan spittlebug		
	Pecan weevil		
	Stinkbug spp.		

<sup>&</sup>lt;sup>2</sup> Suppression only.

<sup>&</sup>lt;sup>3</sup> See resistance statement under **Use Precautions and Restrictions**.

- **DO NOT** apply more than 0.08 lb. active ingredient (1.28 pints) per acre per year.
- DO NOT apply more than 0.06 lb. active ingredient (0.96 pints) per acre per year post bloom.
- Preharvest interval: DO NOT apply within 14 days of harvest.

Apply as required by scouting, usually at intervals of 5 days or more. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.

## Foliar Application



Follow application instructions as indicated in Bee Hazard Direction for Use.

Apply with ground or air equipment, using sufficient water to obtain full coverage of foliage or target area. When applying by air, apply in a minimum of 5 gallons of water per acre, but use higher rates as appropriate for thorough coverage.

#### WHEAT, WHEAT HAY, AND TRITICALE

DECTC	Sharda Gamma-Cyhalo	Sharda Gamma-Cyhalothrin 5.9% CS II RATE		
PESTS	Lb. a.i./A	Fl. oz./A		
Army cutworm	0.0075 - 0.0125	1.92 - 3.20		
Cutworm spp.				
Armyworm				
Cereal leaf beetle				
English grain aphid <sup>1</sup>				
fall armyworm				
flea beetle spp.				
grasshopper spp.				
Hessian fly <sup>4</sup>	0.01 - 0.015	2.56 - 3.84		
oat bird-cherry aphid <sup>1</sup>				
orange blossom				
wheat midge				
Russian wheat aphid <sup>1</sup>				
Stink bug spp.				
Yellow-striped armyworm				
Grass sawfly	0.0125 - 0.015	3.20 - 3.84		
Chinch bug				
Corn leaf aphid <sup>2</sup>	0.015	3.84		
Greenbug <sup>13</sup>	0.013	3.04		
Mite spp. <sup>2</sup>				

<sup>&</sup>lt;sup>1</sup>Best control is obtained before insects begin to roll leaves. Once wheat has started to boot, **Sharda Gamma-Cyhalothrin 5.9% CS II** may provide suppression only. Higher labeled rates and increased coverage will be necessary.

<sup>2</sup>Suppression only.

## **Precautions and Restrictions**

- **DO NOT** apply more than 0.03 lb active ingredient (0.48 pint) per acre per year.
- **Preharvest Interval: DO NOT** apply within 30 days of harvest.
- **DO NOT** allow livestock to graze in treated areas or harvest treated wheat forage as feed for meat or dairy animals within 7 days after last treatment. Do not feed treated straw to meat or dairy animals within 30 days after the last treatment.

Apply as required by scouting, usually at intervals of 5 days or more. Timing and frequency of applications should be based upon insect populations reaching locally determined economic thresholds.

## **Foliar Application**



Follow application instructions as indicated in Bee Hazard Direction for Use.

Apply with ground or air equipment, using sufficient water and application methods to obtain full coverage of foliage. When applying by air, apply in a minimum of 2 gallons of water per acre.

For chinch bug control, repeat applications at 3- to 5-day intervals if needed. **Sharda Gamma-Cyhalothrin 5.9% CS II** may only suppress heavy infestations and/or migrations.

<sup>&</sup>lt;sup>3</sup>See resistance statement under General Use Precautions and Restrictions.

<sup>&</sup>lt;sup>4</sup>Make applications when adults emerge.

Greenbug is known to have many biotypes. **Sharda Gamma-Cyhalothrin 5.9% CS II** may provide suppression only. In this situation, a second application using an alternative chemistry may be needed.

#### NON-AGRICULTURAL USES - NON-CROPLAND AREAS ADJACENT TO CROPS (EXCLUDING PUBLIC LAND)

PESTS	Sharda Gamma-Cyhalothrin 5.9% CS II RATE	
	Lb. a.i./A	Fl. oz./A
Refer to crop-specific use directions	Use rates in	Use rates in
	crop-specific use directions	crop-specific use directions

#### **Precautions and Restrictions**

- **DO NOT** exceed 0.1 lb. active ingredient (1.6 pints) per acre per year.
- **DO NOT** graze livestock in treated areas.

Spray non-cropland adjacent to agricultural areas to control migratory insects that may threaten crops.

When treating areas adjacent to crops, refer to the specific use directions for the adjacent crop for target pests, rates, and spray recommendations.

## **Foliar Application**



Follow application instructions as indicated in Bee Hazard Direction for Use.

Use highest labeled rates for dense/tall foliage, high insect populations and/or larger larval stages.

Repeat as necessary to maintain control.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store this product in a cool, dry place in its original container only. **DO NOT** store this product near fertilizers, seeds, or other pesticides. If this product is spilled, sweep up the spillage and dispose pursuant to the below Pesticide Disposal instructions.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

## **CONTAINER HANDLING:**

[Less Than or Equal to 5 Gallons] [Nonrefillable container. DO NOT reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 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 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.]

[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.]

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

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#### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of 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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