



U.S. ENVIRONMENTAL PROTECTION AGENCY

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

EPA Reg. Number:

83529-328

Date of Issuance:

5/23/24

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Gamma-cyhalothrin 5.9% CS

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, Registration
Division (7505T)

Date:

5/23/24

2. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 83529-328."
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 03/31/2023

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

Enclosure

[MASTER LABEL]

GAMMA-CYHALOTHRIN

GROUP

3A

~~HERBICIDE~~INSECTICIDE

Sharda Gamma-Cyhalothrin 5.9% CS

ABN: Gar**[A microencapsulated insecticide] [F/for] both indoor and outdoor use.****For Use In, On and Around Buildings and Structures for the Control of Listed Pests: on ~~Non-Residential~~ Non-~~R~~esidential Lawns and Turf, Ornamental Trees and Shrubs Around Non-Residential, Institutional, Commercial, Agricultural, and Industrial Buildings; Livestock/Poultry Housings and Pet Kennels.****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%

OTHER INGREDIENTS:94.1%

TOTAL:100.00%

Contains 0.5 lbs. of active ingredient per gallon.

Contains petroleum distillate.

*Synthetic pyrethroid, CAS No. 76703-62-3, capsule suspension (microencapsulated).

WT. BY %

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. 83529-328
(If you **DO NOT** understand this label, find someone to explain it to you in detail.)

ACCEPTED**05/23/2024**

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

83529-328**FIRST AID****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.

IF SWALLOWED:

- Immediately call a poison control center or doctor for treatment advice.
- **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.

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.

[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

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. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Skin exposure may also result in a sensation described as 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 thoroughly with soap and water. Relief from skin sensation may be obtained by applying an oil-based cream.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders, applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, made of barrier laminate, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or Viton[®] ≥ 14 mils
- Shoes plus socks
- Coveralls
- Protective eyewear
- Respirator – wear 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.

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.

To protect the environment, **DO NOT** allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help to avoid run off to water bodies or drainage systems.

DO NOT allow applications to contact water inhabited by fish, such as aquariums and ornamental fish ponds that are located in and around structures being treated.

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

Pesticide incidents (for example, bee kills) should immediately be reported to the state/tribal lead agency. For contact information for your state, go to: www.aapco.org/officials.html. 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. **DO NOT** use **Sharda Gamma-Cyhalothrin 5.9% CS** in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For both indoor and outdoor use.

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

USE PRECAUTIONS AND RESTRICTIONS

- **DO NOT** use or dilute this product with oil.
- **DO NOT** allow to enter indoor or outdoor drains.
- Follow proper disposal procedures on this label.
- All outdoor spray applications **MUST** be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:
 - Application to pervious surfaces such as soil, non-residential lawn, turf, and other vegetation;
 - Perimeter band treatments of 7 feet wide or less from the base of a man-made structure to pervious surfaces (e.g., soil, mulch, or non-residential lawn);
 - Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;
 - Applications around potential exterior pest entry points into man-made structures such as doorways and windows, when limited to a band not to exceed one inch;
 - Applications to vertical surfaces (such as the side of a man-made structure) directly above impervious surfaces (e.g., driveways, sidewalks, etc.), up to 2 feet above ground level;
 - Applications to vertical surfaces directly above pervious surfaces, such as soil, non-residential lawn, turf, mulch or other vegetation) only if the pervious surface does not drain into ditches, storm drains, gutters, or surface waters.
- Spot treatments must not exceed two square feet in size (for example, 2 ft. by 1 ft. or 4 ft. by 0.5 ft.).
- 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.
- LET TREATED SURFACES DRY BEFORE ALLOWING HUMANS AND PETS TO CONTACT SURFACES
- **DO NOT** apply the product into fish pools, ponds, streams, or lakes.
- Application is prohibited directly into 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 directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack-and-crevice treatment.
- **DO NOT** apply or irrigate to the point of runoff.
- Apply this product directly to non-residential lawn or garden area. Water treated area as directed on this label. **DO NOT** water to the point of run-off.
- **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.
- Treat surfaces to ensure thorough coverage but avoid runoff.

- To treat insects harbored in voids and cracks-and-crevices, applications must be made in such a manner to limit dripping and avoid runoff onto untreated structural surfaces and plants.
- Removable chemical extraction probes (also known as “stingers”) used in suction/extraction systems must be rinsed within the pesticide container prior to removal.
- This product is **RESTRICTED** for use in New York state.
- **Nursery (ornamentals, 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.
- **Indoor Residential Sites:**
 - **-DO NOT** apply to carpets as a pin stream or coarse spray treatment.
 - **DO NOT** apply this product in any room being used as living, eating, sleeping, or recovery area by patients, the elderly, or infirm when they are in the room.
 - **DO NOT** apply to institutions (including libraries, sports facilities, etc.) in the immediate area when occupants are present.
 - **DO NOT** apply to classrooms when in use.
 - **DO NOT** apply this product to edible growing crops or stored raw agricultural commodities used for food or feed.
 - **DO NOT** allow applications to contact water inhabited by fish, such as in aquariums and ornamental fishponds that are located in/around structures being treated.

• **Foliar Application**



Foliar Application

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

For 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.

INSECTICIDE RESISTANCE MANAGEMENT

For resistance management, **Sharda Gamma-Cyhalothrin 5.9% CS** contains a Group 3a insecticide. Any insect/mite population may contain individuals naturally resistant to **Sharda Gamma-Cyhalothrin 5.9% CS** 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** 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 cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
 - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
 - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
 - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
 - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
 - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity.
 - Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.

- Adopt an integrated pest management program for insecticide/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.
- 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.

MIXING INSTRUCTIONS

Dilute **Sharda Gamma-Cyhalothrin 5.9% CS** with water for application using hand-held or power-operated application equipment as a coarse spray for crack and crevice or spot and general surface (non-food/ non-feed areas only) treatments. Application equipment that delivers low volume treatments, such as the Micro-Injector® or Actisol® applicator, may also be used to make crack and crevice or spot and general surface treatments. Fill applicator tank with the desired volume of water and add **Sharda Gamma-Cyhalothrin 5.9% CS**. Close and shake before use in order to ensure proper mixing. Shake or re-agitate applicator tank before use if application is interrupted. Mix only amount of treatment volume as required. **Sharda Gamma-Cyhalothrin 5.9% CS** may be applied by using a paintbrush or other porous applicator attached to a handle as a general surface treatment.

TANK MIXING

Sharda Gamma-Cyhalothrin 5.9% CS may be tank mixed with other currently registered pesticides unless expressly prohibited by the product label. A small volume mixing test with the other products is recommended to ensure compatibility. If other chemicals are added to the applicator tank, **Sharda Gamma-Cyhalothrin 5.9% CS** should be added last. If mixed with EC formulations, use within 24 hours. Fill tank to desired volume and continue to agitate while making applications.

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.

Sharda Gamma-Cyhalothrin 5.9% CS may be tank mixed with an Insect Growth Regulator (IGR). Observe all restrictions and precautions which appear on the labels of these products.

FOAM APPLICATIONS

Sharda Gamma-Cyhalothrin 5.9% CS may be converted to a foam and the foam used to treat premise voids to control or prevent pests including ants, bees, termites (above ground only), wasps, or other arthropods harboring in walls, under slabs, or in other void areas.

MANDATORY SPRAY DRIFT MANAGEMENT

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.

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.

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.

Handheld Technology Applications

- Take precautions to minimize spray drift.

INDOOR PREMISE AND PERIMETER PEST CONTROL

Sharda Gamma-Cyhalothrin 5.9% CS is for use as a general surface (non-food/non-feed areas), crack and crevice, or spot treatment in, on, and around buildings and structures and their immediate surroundings, and on modes of transport. Areas of use: ~~include~~, industrial buildings, patios, porches, closets, furniture, apartment buildings, mobile homes, laboratories, buses, greenhouses (non-commercial), stores, factories, warehouses, wineries, vessels, railcars, trucks, trailers, aircraft (cargo and other non-cabin areas only), schools, nursing homes, hospitals, mausoleums, restaurants, hotels, correctional facilities, livestock/poultry housing, pet kennels, food granaries, food grain mills and food manufacturing, processing, and servicing establishments.

Non-food/non-feed areas of food/feed handling establishments: ~~include~~ garbage rooms, lavatories, entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling).

For indoor applications, Sharda Gamma-Cyhalothrin 5.9% CS can be reapplied at 21-day intervals if necessary.

| PESTS | DILUTION RATE (% a.i. and fl. oz.) |
|--|---|
| Ants Bedbugs (adult) Bees Boxelder Bugs Carpenter Bees Carpet Beetles Centipedes Cigarette Beetles Clover Mites Cockroaches ¹ Confused Flour Beetles Crickets Earwigs Firebrats Fleas ² Flies (including House flies, stable flies, little house flies) Lesser Grain Borers Millipedes Mosquitoes Red Flour Beetles Rice Weevils Saw-toothed Grain Beetles Silverfish Sowbugs Spiders Ticks Wasps | 0.0075% a.i. 0.16 fl. oz. (5 ml.) / gal. water 0.5 fl. oz. (15 ml.) / 3 gals. water Up to 0.015% a.i. 0.33 fl. oz. (10 ml.) / gal. water |
| Cockroaches ¹ Crickets ⁶ Flies ⁵ Litter beetles ³ (Darkling, Hide, and Carrion beetles) Mosquitoes ⁴ Pillbugs Scorpions Sowbugs Spiders ⁶ Spider Mites (Two-spotted, Spruce) Ticks ⁶ | 0.03% a.i. 0.65 fl. oz. (20 ml.) / gal. water 2.0 fl. oz. (60 ml.) / 3 gals. water |
| Termites (above ground only) | 0.03% a.i. 0.65 fl. oz. (20 ml.) / gal. water 2.0 fl. oz. (60 ml.) / 3 gals. water |

¹ For cockroaches, the recommended rate for maintenance treatments is 0.0075% a.i. and for clean-out treatments is 0.015% a.i..

For control of severe infestations, use 0.03% rate.

² For outdoor use only and use 0.015% rate.

³ Use the 0.015% (0.33 fl. oz. (10 ml.) / gal. water) rate for light beetle infestation.

⁴ For residual control, use 0.03% rate.

⁵ In all states except California, rates for flies may be increased to 0.03% when environmental conditions are severe and/or populations are high.

⁶ For clean out/severe infestations, use 0.03% rate*

Conversion Rate: 1 fluid ounce (fl. oz.) equals 29 milliliters (ml.).

One gallon finished dilution typically treats 500 - 1000 sq. ft.

Pest-Specific Use Directions

Ants: Apply to any trails around doors and windows and other places where ants may be found. Locate and treat nests. Where ants are trailing inside apply as a residual surface treatment to active areas such as baseboards, corners, around pipes, behind cabinets, behind and under refrigerators, sinks, furnaces, and stoves, cracks and crevices. When combining baits and residual surface insecticides, apply surface insecticides in cracks and crevices along baseboards and infested surfaces, and outside barrier treatments. Use baits in other areas that are untreated by residual insecticides, also see **Outdoor Surfaces and Perimeters**.

Bedbugs: Clean floors and surfaces by vacuuming. Apply as a coarse low pressure spray to harborage areas including crevices, baseboards, loose plaster, behind bed frames and headboards, beneath beds and furniture, and to bedsprings and bed frames. **DO NOT** apply to furniture surfaces or mattresses where people will be laying or sitting. Infested bedding should not be treated, but should be removed, placed in sealed plastic bags, and taken for laundering and drying at high temperatures.

Cockroaches, Crickets, Earwigs, Firebrats, Silverfish, and Spiders: Apply as a coarse low pressure spray to areas where these pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, cabinets, behind and under refrigerators, sinks, furnaces and stoves, the underside of shelves, drawers, and similar areas. Pay particular attention to cracks and crevices, also see **Outdoor Surfaces and Perimeters**.

Bees, Flies, Mosquitoes, and Wasps: Apply directly to walls, ceilings, window screens, and other resting areas as a residual surface treatment. May be used inside residential buildings as well as in and around carports, garages, and storage sheds; also see **Outdoor Surfaces and Perimeters**. Use caution when treating nests of stinging insects as **Sharda Gamma-Cyhalothrin 5.9% CS** does not provide instant knockdown. Protective equipment for the applicator may be required. Treat bee, wasp, and hornet nests late in the day when most insects will be present. Allow 2-3 days for the colony to die and repeat if necessary.

Carpenter Bees: Apply coarse spray to thoroughly wet wood surfaces where bees have been previously active or to provide protection against further damage. Apply early in the spring to prevent bees from invading wood. When bees have infested wood surface applications can help control embedded larvae and bees that emerge from the wood.

Pantry Pests (i.e., Carpet beetle, Cigarette beetle, Confused flour beetle, Lesser grain borer, Red flour beetle, Rice weevil, and Saw-toothed grain beetle): Apply to cupboards, shelving, and storage areas. Remove all utensils, uncovered foodstuffs (or any having original package opened), and shelf paper before making application. Allow treated surfaces to dry and cover shelves with clean paper before replacing any utensils, foodstuff, or other items. Any foodstuff accidentally contaminated with treatment solution should be destroyed.

Boxelder Bugs, Centipedes, Millipedes, Pillbugs, and Sowbugs: Apply around doors and windows and other places where these pests may be found or where they may enter premises. Treat baseboards, storage areas, and other locations. Apply barrier treatments to prevent infestation as described below; also see **Outdoor Surfaces and Perimeters**.

Fleas and Ticks: To control nuisance fleas and ticks (e.g. dog ticks) apply to kennels, yards, runs, and other areas where pets may frequent. To control ticks, apply using a coarse fan spray to vegetation brush, branches, rock walls, and other areas near habitation where ticks may harbor or frequent. Treat entire area rather than spot treatments, and retreat monthly to maintain control. **DO NOT** apply to pasture or cropland, and **DO NOT** allow animals and people access to treated areas until the deposit has dried. Applications can begin in the spring and can continue until frost to control both larvae and adult ticks; also see **Outdoor Surfaces and Perimeters**.

Cluster Flies: Apply in late summer or early fall before flies are observed alighting on surfaces. Apply thoroughly on siding, under eaves, and around windows and doors, paying particular attention to south-facing surfaces, but **DO NOT** allow runoff to occur. Heavy precipitation prior to frost may require retreatments to maintain protection. In winter and spring when flies become active and are emerging, interior crack and crevice and void treatments can help reduce the infestation, along with ULV or general surface application in infested attics or unoccupied lofts.

Litter Beetles (Darkling, Hide, and Carrion Beetles) and Flies in Animal Housing (Such as Poultry Houses): To control adult litter beetles, apply **Sharda Gamma-Cyhalothrin 5.9% CS** to walls and floors and cleanout, before reintroduction of animals. This will suppress beetles that escaped earlier treatment and will help delay onset of future infestations. Pay attention to area where beetles frequently occur, such as walls, supports, cages, stalls, and around feeders. To help control flies, apply a directed application to horizontal surfaces and overhead areas and allow to dry before reintroduction of animals; also see **Livestock/Poultry Housing Structures and Pet Kennels**.

* **Sharda Gamma-Cyhalothrin 5.9% CS** may be used on termites to kill workers or winged reproductive forms which may be present in treated channels at the time of treatment. These applications are not a substitute for mechanical alteration to control subterranean termites, soil treatment labeled termiticides, or fumigation for extensive infestation of drywood termites or other wood-infesting insects but are considered supplemental. This product is not recommended as sole protection against termites. For active termite infestations, get a professional inspection.

For places other than private residences in which exposed food is held processed prepared or served ~~including, but not limited to~~ areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing foods, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups), and serving areas.

Use as a crack and crevice or spot treatment in and around both food and nonfood areas. Apply in small amounts directly into cracks and crevices, using equipment capable of delivering a pin stream of insecticide, in points between different elements of construction, between equipment and floor, openings leading to voids and hollow spaces in walls, equipment and bases. Food contact surfaces and equipment should be cleaned with an effective cleaning compound and rinsed with potable water before using.

Limit individual spot treatments to an area no larger than 20% of the treated surface. Individual spot treatments may not exceed 2 sq. ft. Take extreme care that the product is not introduced into the air. Avoid contamination of food and food processing surfaces.

Application Within Food Serving Areas

For facilities where food is served ~~such as~~ dining rooms. Apply as a crack and crevice or spot treatment to selective surfaces ~~such as~~ baseboards, under elements of construction, and into cracks and crevices. ~~Avoid DO NOT~~ treating surfaces likely to be contacted by food.

Restrictions for food handling establishments

- ~~DO NOT~~ apply when facility is in operation or foods are exposed. Food must be covered or removed in area being treated.
- ~~DO NOT~~ apply directly to food or allow applications to contaminate food.
- ~~DO NOT make NOTE:~~ Application of this product in ~~the~~ Food Areas and/or Food Serving Areas of Food Handling Establishments other than as a spot and/or crack and crevice treatment ~~is NOT permitted~~. Use of application equipment such as the Micro-Injector® or Actisol applicator in food areas should be limited to crack and crevice treatment only.

Livestock/Poultry Housing Structures and Pet Kennels

Sharda Gamma-Cyhalothrin 5.9% CS may be used as a general surface and/or crack and crevice treatment. Treat interior and exterior perimeter applications in and around livestock, poultry and pet housing structures for optimum control. Suitable cleaning practices of the structure must also be followed along with applications of **Sharda Gamma-Cyhalothrin 5.9% CS** to effectively control the listed insects.

Litter Beetles: To control adult litter (darkling, hide and carrion beetles) beetles in animal housing, including poultry housing, apply **Sharda Gamma-Cyhalothrin 5.9% CS** to walls and floors at each grow-out or sanitation procedure, before reintroduction of poultry or other animals. Re-apply after each grow-out or sanitation procedure to control beetles that escaped earlier treatment and delay the onset of further infestations. Beetles frequently occur in areas such as on walls, supports, cages, stalls, and around feeders, so pay careful attention to these places. For poultry houses where birds are grown on litter, treat the floor area. For poultry houses where birds are grown in cages, treat the walls, posts, cage framing, and into cracks and crevices around insulation. Also apply as a perimeter treatment around the outside of the building foundations to prevent beetles from entering from outside. To prevent populations from reaching a problem level, a year-round maintenance program is highly recommended.

RESTRICTIONS to Livestock/Poultry Housing Structures and Pet Kennels:

- **DO NOT** make applications of **Sharda Gamma-Cyhalothrin 5.9% CS** in areas where animals, except for cattle and calves are present in the facility. Allow treated surfaces to dry completely before restocking the facility.
- **DO NOT** make applications to any animal feedstuffs water or watering equipment.
- **DO NOT** contaminate any animal food feed or water in and around livestock, poultry or pet housing when making applications.

OUTDOOR SURFACES AND PERIMETERS

To control flies, fleas, mosquitoes, ants, bees, wasps, centipedes, cockroaches, crickets, pillbugs, scorpions, sowbugs, spiders, termites* (above ground only), ticks and other listed pests, apply **Sharda Gamma-Cyhalothrin 5.9% CS** with either hand or power application equipment as a residual treatment to ornamental plants next to foundations of buildings and to external surfaces of buildings, porches, screens, door and window frames, eaves, patios, garages, refuse dumps and other areas where insects rest or congregate. **Sharda Gamma-Cyhalothrin 5.9% CS** may also be applied to lawns around non-residential buildings, or to refuse dumps or other non-residential areas where these insect pests congregate. Remove all exposed food and cooking utensils. Cover all food handling surfaces or wash thoroughly after treatment and before use. **DO NOT** use on edible crops.

For Perimeter treatments, apply a continual band of insecticide around building foundations and around windows, doors, service line entrances, eaves, vents, and other areas to reduce the potential for entry by crawling pests. Before application, remove debris and

leaf litter from next to the foundation, cut back vegetation and branches that touch the foundation, and move or rake back rocks, deep mulch, or other potential pest harborage next to the foundation. Apply the band up to ~~10-7~~ ft. wide around the structure (or according to state regulations governing commercial pest control) and upwards along the foundation to ~~3-2~~ ft. and around windows, doors, and roof overhangs. Apply as a coarse spray to thoroughly and uniformly wet the foundation and/or band area so that the insecticide will reach the soil or thatch level where pests may be active.

The amount of concentrate is dependent upon pest species (see pest table and comments), infestation levels, and service interval desired.

Greenhouses

- ~~• Broadcast spray treatment using a mechanically pressurized handgun in greenhouses (ornamentals, roses, cut flowers, container stock)~~
- ~~• Drench, soil, or directed treatment using a mechanically pressurized handgun in greenhouses (ornamentals, roses, cut flowers, container stock)~~

Rate Table for Perimeter Barrier Applications

| Application Rate: Fl. oz. (ml.) of Sharda Gamma-Cyhalothrin 5.9% CS | Gals. of Water ¹ | Area of Coverage (sq. ft.) |
|---|-----------------------------|----------------------------|
| 0.16 fl. oz. (5 ml.) | 1-5 gals. | 800-1600 sq. ft. |
| 0.33 fl. oz. (10 ml.) | 1-5 gals. | 800-1600 sq. ft. |
| 0.65 fl. oz. (20 ml.) | 1-5 gals. | 800-1600 sq. ft. |

¹Application volume may be greater than 5 gals./800-1600 sq. ft. if required under heavy vegetative or landscaping materials in order to obtain desired coverage.

Examples of Dilutions for Perimeter Barrier Applications

| Application Volume Gals. of Solution per 1,000 sq. ft. | Application Rate Fl. oz. (ml.) of Sharda Gamma-Cyhalothrin 5.9% CS per 1,000 sq. ft. | Fl. oz. (ml.) of Sharda Gamma-Cyhalothrin 5.9% CS to Dilute in Water According to Spray Tank Volumes | | |
|--|--|--|-----------------------|-----------------------|
| | | 5 gals. | 10 gals. | 50 gals. |
| 1 gal. per 1,000 sq. ft. | 0.16 fl. oz. (5 ml.) | 0.80 fl. oz. (25 ml.) | 1.6 fl. oz. (50 ml.) | 8 fl. oz. (250 ml.) |
| | 0.33 fl. oz. (10 ml.) | 1.65 fl. oz. (50 ml.) | 3.3 fl. oz. (100 ml.) | 16 fl. oz. (500 ml.) |
| | 0.65 fl. oz. (20 ml.) | 3.3 fl. oz. (100 ml.) | 6.5 fl. oz. (200 ml.) | 33 fl. oz. (1000 ml.) |
| 2 gals. per 1,000 sq. ft. | 0.16 fl. oz. (5 ml.) | 0.40 fl. oz. (12.5 ml.) | 0.80 fl. oz. (25 ml.) | 4 fl. oz. (125 ml.) |
| | 0.33 fl. oz. (10 ml.) | 0.80 fl. oz. (25 ml.) | 1.65 fl. oz. (50 ml.) | 8 fl. oz. (250 ml.) |
| | 0.65 fl. oz. (20 ml.) | 1.65 fl. oz. (50 ml.) | 3.3 fl. oz. (100 ml.) | 16 fl. oz. (500 ml.) |
| 5 gals. per 1 000 sq. ft. | 0.16 fl. oz (5 ml.) | 0.16 fl. oz. (5 ml.) | 0.33 fl. oz. (10 ml.) | 1.6 fl. oz. (50 ml.) |
| | 0.33 fl. oz (10 ml.) | 0.33 fl. oz. (10 ml.) | 0.65 fl. oz. (20 ml.) | 3.3 fl. oz. (100 ml.) |
| | 0.65 fl. oz (20 ml.) | 0.65 fl. oz. (20 ml.) | 1.65 fl. oz. (50 ml.) | 6.5 fl. oz. (200 ml.) |

Example calculation: to apply the mid-rate of **Sharda Gamma-Cyhalothrin 5.9% CS** at a volume of 5 gals. /1,000 sq. ft. mix 3.3 oz of concentrate in 50 gallons of water. The percent active ingredient in the finished **Sharda Gamma-Cyhalothrin 5.9% CS** dilution can be calculated with the following formula:

ml needed to add times 5.9% active in concentrate, divided by gal. finished dilution times 3785 ml./gal. = % active in dilution
(Example: 3.3 oz. in 50 gals. is 100 ml. times 5.9 equals 590, and 50 gals., times 3785 is 189,250. Dividing 590 by 189,250 equals 0.003% active in the tank dilution.)

Restrictions for outdoor surfaces and perimeters

- **NOTE-DO NOT** use water-based sprays of **Sharda Gamma-Cyhalothrin 5.9% CS** in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard. Thoroughly wash out sprayer and screen with water and detergent before using **Sharda Gamma-Cyhalothrin 5.9% CS**. **Sharda Gamma-Cyhalothrin 5.9% CS** has not stained or caused damage to painted or varnished surfaces, plastics fabrics, or other surfaces where water applied alone causes no damage. However, treat a small area and allow to dry, to determine whether staining will occur.

Sharda Gamma-Cyhalothrin 5.9% CS may be used for applications to maintain non-residential indoor or outdoor areas where turf and ornamentals are grown; ~~such as residential landscaped areas and~~ non-residential landscapes around institutional, commercial and industrial buildings. Application rates for turf and ornamentals are lower than premise pest control rates, reflecting that treatment intervals are more frequent.

Applicators must ensure that they are certified ~~m~~-by the necessary pesticide certification categories to allow application of **Sharda Gamma-Cyhalothrin 5.9% CS** away from structures such as to turf and ornamental plantings. Premise pest control certification categories may limit the distance away from structures for pesticide application. Consult your state extension office or pesticide regulatory officials for further information.

IMPORTANT: Time application to flowering plants during periods when pollinating insects are not present such as early morning or late evening.

RESTRICTIONS:

- **DO NOT** apply this product through any type of irrigation system.
- **DO NOT** apply this product to edible crops.
- **DO NOT** apply this product by aerial application.
- Use of this pesticide adjacent to water may affect aquatic organisms. To protect these organisms **DO NOT** apply this pesticide within 25 ft. of lakes, reservoirs, rivers, permanent streams, marshes, or natural ponds, estuaries, and commercial fish farm ponds.
- **DO NOT** make outdoor broadcast applications to turf and ornamentals when wind speed is 105 mph or greater.
- In the state of New York, **DO NOT** apply within 100 ft. of coastal marshes or streams that drain into coastal marshes.

MIXING INSTRUCTIONS

Sharda Gamma-Cyhalothrin 5.9% CS is to be mixed with water and may be used in all types of standard application equipment. Fill applicator tank with the desired volume of water and add **Sharda Gamma-Cyhalothrin 5.9% CS**. It is suggested that the water be 5 - 7 pH. Adjust water pH with a buffering agent if necessary. Slowly add **Sharda Gamma-Cyhalothrin 5.9% CS** to applicator tank water with maximum agitation. Close and shake or re-agitate applicator tank before use if application is interrupted. Make up only amount of treatment volume as required.

TANK MIXING

Sharda Gamma-Cyhalothrin 5.9% CS may be tank mixed with other currently registered pesticides unless expressly prohibited by the product label. A small volume mixing test with the other products is recommended to ensure compatibility. If other chemicals are added to the applicator tank, Sharda Gamma-Cyhalothrin 5.9% CS should be added last. Fill tank to desired volume and continue to agitate while making applications. If mixed with EC formulations use within 24 hours. Observe all restrictions and precautions which appear on the labels of these products.

INSECT CONTROL ON ORNAMENTAL PLANTS

Sharda Gamma-Cyhalothrin 5.9% CS is for use to control the pests listed in the table below ~~in such areas as:~~ non-residential landscaped areas and landscaped areas around institutional, commercial and industrial buildings.

NOTE: While phytotoxicity testing has been earned out on a wide range of ornamental plants under various environmental conditions and no phytotoxicity has been observed certain cultivars may be sensitive to the final spray solution.

It is advised to pre-spray a selection of ornamental plants and observe them for 7-10 days prior to treating large areas if local use experience is unavailable.

RESTRICTIONS:

- **DO NOT** apply more than 0.18 lbs. of the Gamma-Cyhalothrin a.i. (46.1 fl. oz. of concentrate) per acre per year.

TANK DILUTION RATES FOR ORNAMENTAL PESTS

| PEST | AMOUNT OF Sharda Gamma-Cyhalothrin 5.9% CS | APPLICATION INSTRUCTIONS |
|---|--|--|
| Ants (Including Imported fire Ants) Armyworms Azalea caterpillars | 1.3-4.4 fl. oz. per 100 gals. OR | Application to ornamentals should be started prior to the establishment of high insect pest populations. |

| | | |
|--|---|--|
| Aphids Bagworms Black vine weevils (adult) Boxelder bugs Budworms California oakworms Cankerworms Cockroaches Crickets Cutworms Eastern tent caterpillars Elm leaf beetles European sawflies Fall webworms Flea beetles Forest tent caterpillars Gypsy moth larvae Japanese beetles (adults) June beetles (adults) Lace bugs Leaf-feeding caterpillars Leafhoppers Leafminers (adults) Leaf rollers Leaf skeletonizers Midges Mosquitoes Oleander moth larvae Pillbugs Pine sawflies Pine shoot beetles Pinetip moths Plant bugs Root weevils Sawflies Scale insects (crawlers) Spiders Spittlebugs Striped beetles Striped oakworms Thrips Tip moths Tussock moth larvae Wasps | 39 - 132 ml. per 100 gals. | <p>Apply at 7-day intervals if retreatment is necessary. Limit more frequent treatment to spot treatments.</p> <p>Good spray coverage is necessary to provide the most effective level of control. Addition of a spreader-sticker at recommended rates may enhance the control of insects on certain species of ornamentals having waxy, hard to wet foliage.</p> <p>For spot treatments use 0.44 fl. oz. Sharda Gamma-Cyhalothrin 5.9% CS per 1 – 2.5 gals. of water.</p> <p>Consult your state university or local Cooperative Extension Service office for specific pest control application timing in your area.</p> <p>Scale: Thoroughly cover the plant with Sharda Gamma-Cyhalothrin 5.9% CS spray including trunks, stems, twigs, and foliage for control of scale insects (crawler stage).</p> <p>Bagworm: Apply Sharda Gamma-Cyhalothrin 5.9% CS when bagworm larvae begin to hatch. Spray directly on the larvae. Application is the most effective when the larvae are young.</p> |
| Broad mites Brown soft scales California red scales (crawlers) Clover mites Mealybugs Pine needle scales (crawlers) Spider mites Whiteflies | 2.6 – 4.4 fl. oz. per 100 gals. OR 78 - 132 ml. per 100 gals. | |

Sharda Gamma-Cyhalothrin 5.9% CS Mixing Chart for Ornamental Insect Pest Control

| Rate of Sharda Gamma-Cyhalothrin 5.9% CS | 25 Gals. | 50 Gals. | 100 Gals. | 200 Gals. | 300 Gals. |
|--|----------|----------|-----------|-----------|-----------|
| | | | | | |

| | | | | | |
|-----------------------|----------|----------|----------|---------|----------|
| 1.32 oz. ¹ | 0.30 oz. | 0.70 oz. | 1.32 oz. | 2.6 oz. | 3.96 oz. |
| 2.64 oz. ² | 0.70 oz. | 1.30 oz. | 2.64 oz. | 5.3 oz. | 7.92 oz. |
| 4.4 oz. ³ | 1.10 oz. | 2.20 oz. | 4.40 oz. | 8.8 oz. | 13.2 oz. |

¹Equivalent to 3.2 ml. per 1,000 sq. ft. (4.7 oz. per acre) when applied at 8 gals. per 1,000 sq. ft.

²Equivalent to 6.3 ml. per 1,000 sq. ft. (9.3 oz. per acre) when applied at 7 gals. per 1,000 sq. ft.

³Equivalent to 10.6 ml. per 1,000 sq. ft. (15.6 oz. per acre) when applied at 8 gals. per 1,000 sq. ft.

NON-RESIDENTIAL LAWN/TURFGRASS INSECT PEST CONTROL

Sharda Gamma-Cyhalothrin 5.9% CS is for use to control the pests listed in the table below around ~~such areas as~~ non-residential, institutional, commercial and industrial buildings.

RESTRICTIONS:

- **KEEP CHILDREN AND PETS OFF TREATED AREAS UNTIL SPRAY HAS DRIED FOLLOWING APPLICATION.**
- **DO NOT** apply when turfgrass is waterlogged or when soils are saturated with water (i.e. will not accept irrigation).
- **DO NOT** apply more than 0.18 lbs. of a.i. (46.1 fl. oz. of concentrate) per acre per year.

RATES FOR NON-RESIDENTIAL LAWN AND TURFGRASS PESTS

| PEST | AMOUNT OF Sharda Gamma-Cyhalothrin 5.9% CS* | APPLICATION INSTRUCTIONS |
|--|--|--|
| Ants (Including Imported fire Ants) Armyworms Centipedes Crickets Cutworms Earwigs Fleas (adult) Grasshoppers Japanese beetles (adult) Millipedes Mites Mosquitoes (adult) Pillbugs Sod webworms Sow bugs Ticks (including species which transmit Lyme disease) | 3.0 – 6.1 ml. per 1,000 sq. ft. OR 4.4 - 8.8 fl. oz. per acre | Application to turf should be started prior to the establishment of high insect pest populations and significant turf damage. To keep pest populations under control, use higher <u>labeled</u> rates as pest pressure increases. Apply at 7-day intervals if retreatment is necessary. Limit more frequent treatment to spot treatments. For spot treatments, use 0.20 fl. oz. of Sharda Gamma-Cyhalothrin 5.9% CS per 1 – 2.5 gals. of water. |
| Bluegrass billbugs (adult) Black turfgrass Ataenius (adult) Chiggers Chinch Bugs ¹ Fleas (adult) Grubs (suppression) Hyperodes weevils (adult) Mole crickets ¹ (nymphs and young adults) | 6.1 ml. per 1,000 sq. ft. OR 8.8 fl. oz. per acre | |

¹Not for use on mature adult mole crickets and chinch bugs in New York state.

*Example: To treat the listed turf pests at the 3.5 ml. per 1,000 sq. ft. rate, determine the gallons of dilution per 1,000 sq. ft. needed to adequately cover the turf. At a 5 gallon per 1,000 sq. ft. dilution, take the 3.5 ml. and divide it by the 5 (gallon) to get 0.7 ml. to be added per gallon. For a 50 gallon tank, therefore, this would be 0.7 ml. X 50 = 35 ml. (or 1.25 oz.) in 50 gallons of water.

Conversion Rate: 1 fluid ounce (fl. oz.) equals 29 milliliters (ml.).

Pest-Specific Application Instructions

Surface Insect Control (armyworm, cutworms, fleas, etc.): Apply **Sharda Gamma-Cyhalothrin 5.9% CS** at recommended rates in 2 – 5 gals. of water per 1,000 sq. ft. The use of spreader-sticker may be useful if high rainfall amounts are forecast, otherwise the addition of adjuvants is not necessary under normal conditions for surface insect control in turf. Delay watering or mowing for 12 – 24 hours to control surface-feeding insect pests.

Thatch Inhabiting Insect Control (chinch bugs, billbugs, etc.): Apply **Sharda Gamma-Cyhalothrin 5.9% CS** at recommended rates in 2 – 10 gals. of water per 1,000 sq. ft. The use of a nonionic wetting agent, penetrant or similar adjuvant is recommended at label rates. Lightly irritate after application with up to ½ inch of water to move the **Sharda Gamma-Cyhalothrin 5.9% CS** into the thatch layer. If irrigation is not available, then use high water application rates.

Subsurface Insect Control (mole crickets, grubs, etc.): Apply **Sharda Gamma-Cyhalothrin 5.9% CS** at recommended rates in 4 – 10 gals. of water per 1,000 sq. ft. The use of a nonionic wetting agent, penetrant, or similar adjuvant is strongly recommended following label rates. Use the highest water application rates possible with your sprayer. Apply **Sharda Gamma-Cyhalothrin 5.9% CS** to turf wet with dew, rain, or irrigation. Water-in immediately after application ¼ - ½ inch of water.

Fire Ant Control: Treat individual mounds with a drench application using a watering can. Use 0.20 fl. oz. of **Sharda Gamma-Cyhalothrin 5.9% CS** per 2.5 gals. of water. Thoroughly soak each mound and a 3 ft. diameter circle around each mound. Gently apply the mixture to avoid disturbing the mound. Disturbing the mound may cause the ants to migrate and reduce the effectiveness of the treatment. Apply in early morning or late evening hours. You may make applications on a monthly basis to maintain protection of treated areas.

Mosquito Control: Apply as a general spray around landscape plantings, turf, and building foundations to control mosquitoes. Apply **Sharda Gamma-Cyhalothrin 5.9% CS** at recommended rates in 2 – 5 gals. of water per 1,000 sq. ft.

Sharda Gamma-Cyhalothrin 5.9% CS Mixing Chart for Non-residential Turf Insect Pest Control

| Rate of Sharda Gamma-Cyhalothrin 5.9% CS Insecticide | App. Rate per 1,000 sq. ft. of Turf (oz.) | | | | | |
|--|---|---------|---------|---------|---------|----------|
| | 2 gals. | 4 gals. | 5 gals. | 6 gals. | 8 gals. | 10 gals. |
| 4.4 fl. oz. per acre | 5.1 | 2.5 | 2.0 | 1.7 | 1.3 | 1.0 |
| 6.6 fl. oz. per acre | 7.6 | 3.8 | 3.0 | 2.5 | 1.9 | 1.5 |
| 8.8 fl. oz. per acre | 10.1 | 5.1 | 4.0 | 3.4 | 2.5 | 2.0 |

Conversion rate: 1 fluid ounce (fl. oz.) equals 29 milliliters (ml.).

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage and disposal. **DO NOT** pour or dispose down-the-drain or sewer. Call your local solid waste agency for local disposal options.

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!

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.

Sharda USA LLC warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under conditions not reasonably foreseeable to or beyond the control of Seller or Sharda USA LLC and Buyer and User assume the risk of any such use. To the extent consistent with applicable law, SHARDA USA LLC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.



To the extent consistent with applicable law, neither Sharda USA LLC nor Seller shall be liable for any incidental, consequential, or special damages resulting from the use or handling of this product. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SHARDA USA LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SHARDA USA LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

Sharda USA LLC and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of Sharda USA LLC.

[All trademarks are the property of their respective owners.]

[OPTIONAL MARKETING LANGUAGE]

[\[Reviewer note: QR code directs to shardausa.com\]](http://www.shardausa.com)

| | |
|---|---|
| 1 | [www.shardausa.com]  [] |
| 2 | [Handle with Care] |
| 3 | [This side Up] |
| 4 | {The below graphic to be added to box if formulated in the United States}  [] |