



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

February 25, 2022

Haley Wade  
Lead Regulatory Manager  
Control Solutions, Inc.  
5903 Genoa-Red Bluff  
Pasadena, TX 77507-1041

Subject: Notification per PRN 98-10 – Change Primary Brand Name and Alternate Brand Names  
Product Name: CSI 16-199 B-N-P CS  
EPA Registration Number: 53883-426  
Application Date: June 22, 2021  
Decision Number: 578889

Dear Haley Wade:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The primary brand name CSI 16-199 B-N-P ZC and alternate brand names DuraFlex and DuraFlex ZC have been added to the product record.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

If you have any questions, you may contact please contact Elizabeth Andrews at 202-566-2467 or by email at [Andrews.Elizabeth@epa.gov](mailto:Andrews.Elizabeth@epa.gov).

Sincerely,

A handwritten signature in blue ink that reads "J. Herrick".

Jacquelyn Herrick, Product Manager 03  
Invertebrate & Vertebrate Branch 1  
Registration Division (7505P)  
Office of Pesticide Programs

[Text in brackets and italics are notes to the label editor.]

[Text in brackets alone are optional statements or alternative statements.]

[Text separated by "/" indicates an either/or choice.]

### NOTIFICATION

53883-426

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

02/25/2022

BIFENTHRIN	GROUP	3A	INSECTICIDE
NOVALURON	GROUP	15	INSECTICIDE
PYRIPROXYFEN	GROUP	7C	INSECTICIDE

## CSI 16-199 B-N-P ~~CS~~ZC

[ABN: DuraFlex, ~~CS~~DuraFlex ZC]

[CONTROLLED RELEASE INSECTICIDE]

[With CapVantage™ Technology] [Encapsulated Solutions]

For prevention and control of pests in and around structures including fleas, flies, ants, mosquitoes, ticks, cockroaches, stored product pests and others. To control listed pests on lawns, turfgrass, ornamental trees, ornamental grasses and shrubs around residential, institutional, public, commercial, agricultural and industrial buildings, parks, recreational areas, golf course out of play areas (including native planting areas, around clubhouses, outbuildings and on-course lavatories), athletic fields and greenhouses.

For both indoor and outdoor use.

#### ACTIVE INGREDIENTS\*:

Bifenthrin** .....	3.95%
Novaluron .....	1.30%
Pyriproxyfen .....	1.30%
<b>OTHER INGREDIENTS:</b> .....	<u>93.45%</u>
<b>TOTAL:</b>	100.00%

\*Bifenthrin and pyriproxyfen are encapsulated.

\*\*Cis isomers 97% minimum, trans isomers 3% maximum.

Contains 0.33 lbs. Bifenthrin, 0.11 lbs. Novaluron and 0.11 lbs. Pyriproxyfen per gallon.



ADAMA

Consumer &  
Professional  
Solutions

**Manufactured for:**  
Control Solutions, Inc.  
5903 Genoa Red Bluff  
Pasadena, TX 77507

EPA Reg. No: 53883-426

EPA Est. No: \_\_\_\_\_

Net Contents: \_\_\_\_\_

## KEEP OUT OF REACH OF CHILDREN CAUTION

*[Alternate text – all or in part: See [side] [back] [inside] [panel(s)] [booklet] for First Aid, Precautionary Statements, Directions for Use and Storage and Disposal.]*

<b>FIRST AID</b>	
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• <b>DO NOT</b> induce vomiting unless told to do so by the poison control center or doctor.</li><li>• <b>DO NOT</b> give anything by mouth to an unconscious person.</li></ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact SafetyCall® International for emergency medical treatment at (866) 897-8050.	
<b>Note to Physician</b> – This product contains a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and should be avoided.	

*[Note to label editor: Table format will be used if space allows for the first aid section; otherwise, paragraph format will be used.]*

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if swallowed. Harmful if inhaled. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco, or using the toilet. Remove and wash contaminated clothing before reuse.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

All pesticide handlers (mixers, loaders, and applicators) must wear long-sleeved shirt and long pants, socks, shoes, and chemical resistant gloves made of barrier laminate, butyl rubber ( $\geq 14$  mils), nitrile rubber ( $\geq 14$  mils), neoprene rubber ( $\geq 14$  mils), natural rubber ( $\geq 14$  mils), polyethylene, PVC ( $\geq 14$  mils), or viton ( $\geq 14$  mils). After the product is diluted in accordance with label directions for use, and/or when mixing and loading using a closed spray tank transfer system, or an in-line injector system, shirt, pants, socks, shoes, and chemical resistant gloves made of barrier laminate, butyl rubber ( $\geq 14$  mils), nitrile rubber ( $\geq 14$  mils), neoprene rubber ( $\geq 14$  mils), natural rubber ( $\geq 14$  mils), polyethylene, PVC ( $\geq 14$  mils), or viton ( $\geq 14$  mils) are sufficient. In addition, all pesticide handlers must wear a respiratory protection device<sup>1</sup> when working in a non-ventilated space.

<sup>1</sup> 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.

*[Text in brackets and italics are notes to the label editor.]*

[Text in brackets alone are optional statements or alternative statements.]

[Text separated by “/” indicates an either/or choice.]

### **USER SAFETY RECOMMENDATIONS**

Users should:

- Wash hands before eating, drinking chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### **ENVIRONMENTAL HAZARDS**

This pesticide is extremely toxic to fish and aquatic invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems. Care should be used when spraying to avoid fish and reptile pets in/around ornamental ponds.

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 to drift to blooming crops 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.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other public waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

### **PHYSICAL AND CHEMICAL HAZARDS**

Do not use this product in or on electrical equipment due to the possibility of shock hazard.

Do not mix or allow product to come into contact with oxidizing agents. Hazardous chemical reaction may occur.

### **DIRECTIONS FOR USE**

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

Do not apply this product in 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 requirement specific to your State and Tribe, consult the State/Tribal agency responsible for pesticide regulation.

### **PRODUCT INFORMATION**

~~CSI-16-199-B-N-P-CS~~ [CSI 16-199 B-N-P ZC](#) is for use as a general surface (food/feed and nonfood/nonfeed areas), crack and crevice, or spot treatment application. ~~CSI-16-199-B-N-P-CS~~ [CSI 16-199 B-N-P ZC](#) includes an adulticide and 2 insect growth regulators. The insect growth regulators, novaluron and pyriproxyfen, prevent immature insects from developing into reproductive adults. The adulticide, bifenthrin, will kill adult pests.

*[Text in brackets and italics are notes to the label editor.]*

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**For use in:**

Industrial Plants, Factories, Warehouses, Commercial Buildings, Condominiums, Apartments, Cabins, Day Care Centers, Duplexes, Mobile Homes, Homes, Hospitals, Hotels, Motels, Nursing Homes, Office Buildings, Other Public Buildings, Campsites, Gas Stations, Prisons, Rooms, Schools, Golf Course Out of Play Areas, Parks, Institutions, Recreational Areas Outdoors, Jails, Sport Stadiums, Supermarkets, Taverns, Theaters, Townhomes, Morgues, Mortuaries, Mobile Homes, Crematoriums, Funeral Parlors, Mausoleums, Atriums, Attics, Bathrooms, Basements, Bedrooms, Porches, Closets, Draperies, Dressers, Kitchens, Porches, Upholstered Furniture, Cabinets, Crawl Spaces, Carpet, Campers, Garbage Areas, Garbage Cans, Patios, Garages, Gazebos, Storage Sheds/Areas, Floors, Furniture, Locker Rooms, Utility Room Indoor, Utility Room Outdoor, Washrooms;

Animal Quarters (enclosed premise treatment), Cat Living Quarters (enclosed premise treatment), Dog Houses, Dog Living Quarters, Dog Kennel Runs, Kennels, Pet Bedding, Pet Carriers, Pet Grooming Parlors, Pet Sleeping Areas, Pet Stores, Pet Quarters (enclosed premise treatment), Veterinaries, Zoos;

Candy Plants, Canneries, Bakeries, Breweries, Cereal Processing Facilities, Food Processing Plants, Food and Non-Food Warehouses, Cafeterias, Indoor Eating Establishments, Grocery Stores, Institutional Dining Areas, Flour Mills, Grain Storage Facilities, Outdoor Eating Establishments, Restaurants, Dairies, Delicatessens;

Transportation Equipment (automobiles, aircraft cargo areas, boxcars, buses, boats, trucks, railcars, ship cargo holds);

Outdoor Areas and Surface Perimeters including Lawns, Turfgrass, Ornamental Plants, Shrubs, and Around Foundation Walls;

Indoor or outdoor areas where turf and ornamentals grow: residential landscaped areas and non-residential landscapes around institutional, public, commercial and industrial buildings, parks, recreational areas, athletic fields (including trees, shrubs, flowers, evergreens, foliage plants and groundcovers) and greenhouses.

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### **AGRICULTURE 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 intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. The REI is 72 hours in outdoor areas where average annual rainfall is less than 25 inches a year.

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

- Coveralls over long-sleeved shirt and long pants
- Chemical-resistant gloves
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant headgear

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

\*These requirements apply only to the greenhouse uses on this label

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

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standards for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries and greenhouses. Do not allow people or pets on treated surfaces until the spray has dried.

### **Resistance-Management Recommendations**

For resistance management, please note that ~~CSI 16-199 B-N-P-CS~~ [CSI 16-199 B-N-P ZC](#) contains a Group 3A (Bifenthrin), a Group 15 (Novaluron) and a Group 7C (Pyriproxyfen) insecticide. Any insect population may contain individuals naturally resistant to ~~CSI 16-199 B-N-P-CS~~ [CSI 16-199 B-N-P ZC](#) and other Group 3A, Group 7C or Group 15 insecticides. The resistant individuals may dominate the insect population if this group of insecticides are used repeatedly in the same fields. Appropriate resistance management strategies should be followed.

To delay insecticide resistance, take the following steps:

- Use tank mixtures with insecticides from a different group that are equally effective on the target pest when such use is permitted. **DO NOT** rely on the same mixture repeatedly for the same pest population. Consider any known cross-resistance issues (for the targeted pests) between the individual components of a mixture. In addition, consider the following recommendations provided by the Insecticide Resistance Action Committee (IRAC):
  - Individual insecticides selected for use in mixtures should be highly effective and be applied at the rates at which they are individually registered for use against the target species.
  - Mixtures with components having the same IRAC mode of action classification are not recommended for insect resistance management.
  - When using mixtures, consider any known cross-resistance issues between the individual components for the targeted pest(s).
  - Mixtures become less effective if resistance is already developing to one or both active ingredients, but they may still provide pest management benefits.
  - The insect resistance management benefits of an insecticide mixture are greatest if the two components have similar periods of residual insecticidal activity. Mixtures of insecticides with unequal periods of residual insecticide activity may offer an insect resistance management benefit only for the period where both insecticides are active.
- Adopt an integrated pest management program for insecticide use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices.
- Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor.
- Contact your local extension specialist or certified crop advisor 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 Control Solutions, Inc. at 800-242-5562 or at [controlsolutionsinc.com](http://controlsolutionsinc.com)

#### **SPRAY DRIFT**

##### **Boom-less Ground Applications:**

- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.

#### **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.

#### **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 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.

### **Boom-less Ground Applications:**

- Setting nozzles at the lowest effective height will help to reduce the potential for spray drift.

### **Handheld Technology Applications:**

- Take precautions to minimize spray drift

## **USE RESTRICTIONS**

- **DO NOT** apply a broadcast application to interior surfaces of homes.
- **DO NOT** apply by aerial application.
- **DO NOT** apply in nurseries.
- **DO NOT** apply this product through any kind of irrigation system.
- **DO NOT** spray 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** apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack-and-crevice treatment, unless permanently protected from rainfall by a covering, awning, or other structure.
- **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 to pesticide application.
- 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.
- **DO NOT** use on sod farm turf, golf course turf (playable areas), or grass grown for seed.
- **DO NOT** apply to pets, crops, or sources of electricity.
- **DO NOT** treat firewood.
- Use only in well-ventilated areas.
- During any indoor application to overhead areas of structure, cover surface below with plastic sheeting or similar material except for soil surfaces in crawlspaces.



*[Text in brackets and italics are notes to the label editor.]*

[Text in brackets alone are optional statements or alternative statements.]

[Text separated by “/” indicates an either/or choice.]

- **DO NOT** allow spray to contact food, foodstuffs, food-contacting surfaces or food utensils or water supplies.
- Thoroughly wash dishes and food handling utensils with soap and water if they become contaminated by application of this product.
- **DO NOT** treat areas where food is exposed.
- **DO NOT** allow dripping or runoff to occur during indoor surface applications. **DO NOT** allow contact with treated surfaces by people or pets before spray has dried.
- **DO NOT** apply this product in patient rooms or in any rooms while occupied by the elderly or infirm.
- **DO NOT** return patients to treated room until after thorough ventilation.
- **DO NOT** apply ~~CSI 16-199 B-N-P CS~~ [CSI 16-199 B-N-P ZC](#) in classrooms, libraries, sports venues, or other institutional facilities when they are occupied.
- ~~CSI 16-199 B-N-P CS~~ [CSI 16-199 B-N-P ZC](#) may be applied with low-volume application equipment, including Actisol® and Micro-Injector®, for general surface (in food handling and poultry houses only), spot, crack and crevice, and deep harborage treatments.
- **DO NOT** use on plants for commercial seed production or research purposes.

Unless labeled for drain treatments, application is prohibited directly into sewers or storm drains, or to any area where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. **DO NOT** allow the product to enter indoor or outdoor drains unless labeled for drain treatments.

*No permita la entrada a desagües internos o externos a menos que el etiquetado indique que está permitido el uso del producto para tratamiento de desagües.*

Follow proper disposal procedures on this label.

*Siga las indicaciones del etiquetado para el desecho apropiado del producto.*



#### **Additional Application Restrictions for Residential Outdoor Surface and Space Sprays:**

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

1. Applications to pervious surfaces such as soil, lawn, turf and other vegetation;
2. 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 lawn*);
3. Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning or other structure;
4. 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;
5. 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;
6. Applications to vertical surfaces directly above pervious surfaces, such as soil, lawn, turf, mulch or other vegetation) only if the pervious surface does not drain into ditches, storm drains, gutters, or surface waters;
7. Spot treatments must not exceed two square feet in size (for example 2 ft by 1 ft or 4 ft by 0.5 ft).

Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors, and eaves) are limited to spot and crack-and-crevice applications, only.

When treating adjacent to an existing structure, the applicator must check the area to be treated, and immediately adjacent areas of the structure, for visible and accessible cracks and holes to prevent any leaks or significant exposures to persons occupying the structure. People present or residing in the structure during application must be advised to remove their pets and themselves from the structure if they see any signs of leakage. After application, the applicator is required to check for leaks. **DO NOT** allow people or pets to contact contaminated areas or to reoccupy contaminated areas of the structure until the clean-up is completed.

#### **PRECAUTIONS:**

- Follow directions for specific use areas.
- **DO NOT** excessively wet carpet, draperies and furniture.
- Always test in an inconspicuous area prior to use as some natural and synthetic fibers may be adversely affected by any liquid product.
- While phytotoxicity testing has been carried out on a wide range of ornamental plants under various environmental conditions, and no phytotoxicity has been observed, it is impossible to test all species and varieties. Certain cultivars may be sensitive to the final spray solution. It is advised to pre-spray a small section of ornamental plants and observe them for 7-10 days prior to treating large areas if local use experience is unavailable.

For information concerning the most up to date control practices in a given region or locale, consult the local resources for structural pest control, state cooperative extensions or regulatory agencies.

#### **MIXING INSTRUCTIONS**

Prepare a diluted spray solution by adding the appropriate amount of ~~CSI 16-199 B-N-P CS~~ [CSI 16-199 B-N-P ZC](#) per gallon of water. Partially fill the mixing container with water, add CSI 16-199 B-N-P ~~CS~~[ZC](#), agitate and fill to final volume. Agitate before each spray application.

~~CSI 16-199 B-N-P CS~~ [CSI 16-199 B-N-P ZC](#) can be tank-mixed with other pesticides. 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. Physical compatibility may vary with different combinations of products, so prepare a small scale (pint or quart jar) test sample for any combination not tested previously. Use proper proportions in the small-scale test to achieve the correct result.

Unless otherwise noted in the label instructions, use the procedure below for preparation of a new tank mix:

- Add wettable powders to tank water
- Mix well
- Add liquids and flowables
- Mix well
- Add emulsifiable concentrates
- Mix well

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Try reversing the order of addition or increasing the amount of water if the combination is not compatible using the above order. **NOTE:** After increasing the amount of water, if the mixture is found to be compatible, it is necessary to recalibrate the sprayer for a higher volume application. If mixture sits for more than 2 hours, shake well before application. Do not allow mixture to stand overnight.

**Foam Applications**

~~CSI 16-199 B-N-P CS~~ CSI 16-199 B-N-P ZC may be converted to a foam and the foam used to treat structural voids to control or prevent pests: ants, bees, cockroaches, silverfish, spiders, ticks, termites (above ground only), wasps, or other listed arthropods harboring in walls, and under slabs.

**DILUTION CHART FOR STRUCTURAL PERIMETER BARRIER APPLICATIONS**

Application Volume (Gallons of Solution per 1,000 ft <sup>2</sup> )	Application rate (fl. oz. of <del>CSI 16-199 B-N-P CS</del> <u>CSI 16-199 B-N-P ZC</u> per 1,000 ft <sup>2</sup> )	Fl. oz. of <del>CSI 16-199 B-N-P CS</del> <u>CSI 16-199 B-N-P ZC</u> to Dilute in Water According to Spray Tank Volumes				
		1 gallon	5 gallons	10 gallons	15 gallons	50 gallons
1 gallon	1.0 fl. Oz.	1.0	5.0	10.0	15.0	50.0
	2.0 fl. Oz.	2.0	10.0	20.0	30.0	100.0
2 gallons	1.0 fl. Oz.	-	2.5	5.0	7.5	25.0
	2.0 fl. Oz.	-	5.0	10.0	15.0	50.0
5 gallons	1.0 fl. Oz.	-	1.0	2.0	3.0	10.0
	2.0 fl. Oz.	-	2.0	4.0	6.0	20.0

	% Active Ingredient in Dilution for Labeled Mix Rates	
	1.0 fl. oz. <del>CSI 16-199 B-N-P CS</del> <u>CSI 16-199 B-N-P ZC</u> Per Gallon of Water	2.0 fl. oz. <del>CSI 16-199 B-N-P CS</del> <u>CSI 16-199 B-N-P ZC</u> Per Gallon of Water
<b>Bifenthrin</b>	0.03%	0.06%
<b>Novaluron</b>	0.01%	0.02%
<b>Pyriproxyfen</b>	0.01%	0.02%
<b>Total Concentration of Actives</b>	0.05%	0.10%

Use the high rate for fast knockdown of heavy pest pressure or for longer residual control

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### PEST SPECIFIC USE DIRECTIONS

**ANTS:** When combining liquid ~~CSI 16-199 B-N-P CS~~ CSI 16-199 B-N-P ZC treatments with bait treatments, use ~~CSI 16-199 B-N-P CS~~ CSI 16-199 B-N-P ZC as instructed below and apply baits in those areas where ~~CSI 16-199 B-N-P CS~~ CSI 16-199 B-N-P ZC has not been applied.

Use Sites	Application Method	Application Rate	Use Directions
<p style="text-align: center;">Interior application including spot and crack and crevice</p> <p style="text-align: center;">Food serving areas/surfaces, non-food serving areas/surfaces*</p>	<p style="text-align: center;">Pressurized spray system capable of delivering a pin-point or variable spray pattern</p> <p style="text-align: center;">Low-pressure Sprayer</p>	<p style="text-align: center;">1-2 fl. oz. per gallon of water to cover 1,000 ft<sup>2</sup></p>	<p>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 spot treatment to active areas: crawlspaces, baseboards, corners, around pipes, in and behind cabinets, behind and under refrigerators, sinks, furnaces, dishwashers, stoves, cracks and crevices. When combining baits and residual insecticides, apply residual insecticides in cracks and crevices, along baseboards, and infested surfaces and outside barrier treatments. Use baits in other areas that are untreated by liquid insecticides.</p> <p>Rates may be increased to 2 fl. oz. per gallon when environmental conditions are conducive to higher pest populations or high numbers of pests are present.</p> <p>Repeat application should only take place if there are signs of renewed activity and must not exceed one application every 7 days.</p>
<p style="text-align: center;">Perimeter or around foundation walls</p>	<p style="text-align: center;">Low pressure sprayer or similar application</p>	<p style="text-align: center;">1-2 fl. oz. in a minimum of 1 gallon of water to cover 1,000 ft<sup>2</sup></p>	<p>Apply to exterior perimeter or around foundation walls where ants are actively foraging at a height of 2 feet on the foundation and in a band 7 feet wide adjacent to the foundation wall of the building.</p> <p>Repeat treatments may be made 14 days after previous treatment, or if heavy rainfall occurs.</p>
<p style="text-align: center;">Perimeter/ Lawns</p>	<p style="text-align: center;">Mound drench or broadcast application</p>	<p style="text-align: center;">1-2 fl. oz. per gallon of water</p> <p style="text-align: center;">For broadcast applications use 1 - 2 fl. oz in 3-5 gallons of water</p>	<p>For mound treatments, use 1 – 2 gallons of dilution for each mound. Apply a 4-foot diameter circle around and over the mound. For mounds larger than 12 inches, use a larger volume. Application should be made in late evening or early morning, when it is cooler (65 - 80°F) and insects are most active.</p> <p>For broadcast applications, apply to turf or lawn, fence lines, or other pervious areas where ants are active.</p>

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[Text separated by "/" indicates an either/or choice.]

		to cover 1,000 ft <sup>2</sup>	
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**RESTRICTIONS:**

- In the home, cover all exposed food processing surfaces and utensils during treatment or thoroughly wash before reuse. Exposed food should be covered or removed.
- **DO NOT** permit humans or pets to contact treated surfaces until the spray has dried.
- During any overhead applications to overhead interior areas of structures, cover surfaces below with plastic sheeting or similar materials.
- Wear protective clothing, unvented goggles, gloves and respirator, when applying to overhead areas or in poorly ventilated areas. Do not touch sprayed surfaces until spray has completely dried.
- Applications to building foundations are restricted to a maximum height of 2 feet above grade.
- Applications on lawns and turf should NOT exceed a maximum rate of 0.23 lb. Bifenthrin/A.

\*General surface treatments are allowed only in food handling establishments. See Food Handling Establishments section for additional information.

**BED BUGS:**

Use Sites	Application Method	Application Rate	Use Directions
Interior applications	Low-pressure spray, crack and crevice, pinstream, spot or similar application	2 fl. oz. per gallon of water to cover 1,000 ft <sup>2</sup>	<p>For best results, clean floors and surfaces by vacuuming. Dispose of vacuum bag contents in an exterior trash receptacle.</p> <p>Apply as a coarse, low-pressure spray to harborage areas including cracks and crevices, baseboards, loose plaster/wall paper, behind bed frames and headboards, beneath beds and furniture, carpet edges, and to box springs and bed frames.</p> <p>Repeat application should only take place if there are signs of renewed activity and must not exceed one application every 7 days.</p>

**USE RESTRICTIONS:**

- **DO NOT** apply to furniture surfaces or mattresses where people will be laying or sitting.
- **DO NOT** apply to bed linens, mattresses, pillows or clothes.
- **DO NOT** apply to clothes; items should be removed from furniture/floors before application.
- **DO NOT** treat infested bedding, instead place items in sealed plastic bags, and take for laundering and drying at high temperatures.

**COCKROACHES AND CRICKETS:**

Use Sites	Application Method	Application Rate	Use Directions and Restrictions
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<p>Interior application, including crack and crevice or spot spray</p> <p>Food serving areas/surfaces, non-food serving areas/surfaces*</p>	<p>Pressurized spray system capable of delivering a pin-point or variable spray pattern</p> <p>Low-pressure Sprayer</p>	<p>1–2 fl. oz. per gallon of water to cover 1,000 ft<sup>2</sup></p>	<p>Contact as many insects as possible. Spray in areas where these pests may hide, paying attention to places such as cracks and crevices, corners, beneath sinks, behind and beneath stoves and refrigerators, around garbage cans, cabinets, along the outside of baseboards, door and window sills, door and window frames and floors, around and on drains, pipes, plumbing, behind bookcases, storage and other utility installation areas, crawlspaces, attics, eaves, infested furniture, the underside of shelves and drawers, and inside of cabinets and closets.</p> <p>Repeat application should only take place if there are signs of renewed activity and must not exceed one application every 7 days.</p>
<p>Outdoor perimeter treatments</p>	<p>Adjustable hose end sprayer, tank type sprayer, low-pressure sprayer and backpack mister</p>	<p>1-2 fl. oz. in a minimum of 1 gallon of water to cover 1,000 ft<sup>2</sup></p>	<p>Apply at a height of 2 feet up the foundation and in a band 7 feet wide adjacent to and around the structure where pests may be active or may find entrance.</p> <p>Apply around decks, around garbage areas, sill plates, around storage sheds, trunks of woody plants, and other areas where pests may congregate.</p> <p>Apply as a spot treatment to window frames, doors, garage doors, patios, carports and shutters unless permanently protected from rainfall by a covering, overhang, awning, or other structure.</p> <p>Repeat treatments may be made 14 days after previous treatment, or if heavy rainfall occurs.</p>
<p>Perimeters/ Lawns</p>	<p>Broadcast application</p>	<p>1-2 fl. oz. per gallon of water</p> <p>For broadcast applications use 1-2 fl. oz in 3-5 gallons of water to cover 1,000 ft<sup>2</sup></p>	<p>For broadcast applications, apply to turf or lawn, fence lines, or other pervious areas where pests are active.</p> <p>Repeat treatments may be made 7 days after previous treatment, or if heavy rainfall occurs.</p>

**RESTRICTIONS:**

- In the home, cover all exposed food processing surfaces and utensils during treatment or thoroughly wash before reuse. Exposed food should be covered or removed.
- **DO NOT** permit humans or pets to contact treated surfaces until the spray has dried.
- **DO NOT** spray into the air; only spray directed toward the specific use sites.
- During any overhead applications to overhead interior areas of structures, except for soil surfaces in crawlspaces, cover surfaces below with plastic sheeting or similar materials.
- **DO NOT** apply to clothes; items should be removed from furniture/floors before application.

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- Wear protective clothing, unvented goggles, gloves and respirator, when applying to overhead areas or in poorly ventilated areas. Avoid touching sprayed surfaces until spray has completely dried. Applications to building foundations are restricted to a maximum height of 2 feet above grade.

\*General surface treatments are allowed only in food handling establishments. See Food Handling Establishments section for additional information.

**ADDITIONAL OCCASIONAL PESTS (Beetles, Boxelder bugs, Centipedes, Cicadas, Earwigs, Firebrats, Millipedes, Pillbugs, Silverfish, Sowbugs, Spiders, Springtails, Stink bugs, and other overwintering or aggregating pests):**

Use Sites	Application Method	Application Rate	Use Directions and Restrictions
<p>Interior spot and crack and crevice application</p> <p>Food serving areas/surfaces, non-food serving areas/surfaces*</p>	<p>Pressurized spray system capable of delivering a pin-point or variable spray pattern</p> <p>Low-pressure Sprayer</p>	<p>1–2 fl. oz per gallon of water to cover 1,000 ft<sup>2</sup></p>	<p>Treat near doors and windows, storage areas, baseboards and other sites where these pests may be found.</p> <p>Treat where pests hide. These areas include, attics, crawlspaces, baseboards, closets, corners, storage areas, around water pipes, doors and windows, behind and under cabinets, furnaces, refrigerators, sinks, stoves, the underside of shelves and drawers.</p> <p>Repeat application should only take place if there are signs of renewed pest activity and must not exceed one application per 7 days.</p>
<p>Exterior applications to residential, commercial, public, industrial and agricultural buildings</p>	<p>Surface (including spot and crack and crevice) application</p>	<p>1-2 fl. oz. in a minimum of 1 gallon of water to cover 1,000 ft<sup>2</sup></p>	<p>Apply at a height of 2 feet on the foundation in a band 7 feet wide adjacent to and around the structure where pests may be active or may find entrance. Apply spray around decks, around garbage areas, soffit vents, sill plates and other areas where pests may congregate or gain entrance.</p> <p>Apply as a spot treatment to window frames, doors, garage doors, patios, carports and shutters, edges of siding and eaves unless permanently protected from rainfall by a covering, overhang, awning, or other structure.</p> <p>Repeat application should only take place if there are signs of renewed pest activity and must not exceed one application per 7 days.</p>

**RESTRICTIONS:**

- In the home, cover all exposed food processing surfaces and utensils during treatment or thoroughly wash before reuse. Exposed food should be covered or removed.
- **DO NOT** permit humans or pets to contact treated surfaces until the spray has dried.
- **DO NOT** apply to clothes; items should be removed from furniture/floors before application.

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- During any overhead applications to overhead interior areas of structures, except for soil surfaces in crawlspaces, cover surfaces below with plastic sheeting or similar materials.
- **DO NOT** spray into the air; only spray directed at the specific use sites.
- Wear protective clothing, unvented goggles, gloves and respirator, when applying to overhead areas or in poorly ventilated areas. **DO NOT** touch sprayed surfaces until spray has completely dried.
- Applications to building foundations are restricted to a maximum height of 2 feet above grade.

\*General surface treatments are allowed only in food handling establishments. See Food Handling Establishments section for additional information.

**FLEAS AND TICKS :**

Use Sites	Application Method	Application Rate	Use Directions and Restrictions
Interior general spot application, broadcast application in crawlspaces	Pressurized spray system capable of delivering a pinpoint or variable spray pattern  Low-pressure Sprayer	1–2 fl. oz. per gallon of water to cover 1,000 ft <sup>2</sup>	For spot treatment (Spot treatments must not exceed two square feet in size (for example, 2 ft. by 1 ft. or 4 ft. by 0.5 ft.)) use in areas where pests may rest including on carpets, furniture, pet sleeping areas & throw rugs, etc. Before treatment, vacuum carpets, draperies and upholstered furniture for best results. Dispose of vacuum bag in an outdoor trash receptacle.  In crawlspaces, apply to all surfaces as a broadcast application, focusing on pet or animal resting areas.  Repeat application should only take place if there are signs of renewed activity and must not exceed one application every 7 days.
Kennels and doghouses (building, resting areas, walls, floor, animal bedding, & run areas)	Adjustable hose-end sprayer, backpack mister, tank type sprayer, sprinkling can or low-pressure sprayer	1-2 fl. oz. per gallon of water to cover 1,000 ft <sup>2</sup>	Remove animals before treating. Apply as a surface application or crack and crevice treatment.  For best results, pets and their bedding should be treated with EPA registered flea and tick control products in conjunction with this application as part of a complete flea control program.  Repeat application should only take place if there are signs of renewed activity and must not exceed one application every 7 days. Follow use directions for other EPA registered products that are used in conjunction.



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<p>Animal runs, lawns, under decks, trees, ornamental plants &amp; shrubs and other areas where animals are known to rest</p>	<p>Adjustable hose-end sprayer, backpack mister, tank type sprayer or sprinkling can</p>	<p>1-2 fl. oz. in a minimum of 1 gallon of water to cover 1,000 ft<sup>2</sup></p>	<p>To control ticks, apply to vegetation, brush, branches, retaining walls, structures and other areas near habitat where ticks may harbor or frequent. Treat entire area rather than making spot treatments and retreat as necessary to maintain control.</p> <p>To control fleas, make broadcast applications to shaded areas accessible to pets or other animals. Use high volume applications to ensure penetration of insecticide into the soil. <del>CSI 16-199 B-N-P CS</del> <u>CSI 16-199 B-N-P ZC</u> contains 2 IGRs; tank mixing additional IGRs is not necessary.</p> <p>If needed, repeat treatments may be made 14 days after last treatment or if new pest activity is observed.</p>
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**RESTRICTIONS:**

- Remove pets prior to spraying treatment area.
- **DO NOT** permit humans or pets to contact treated surfaces until the spray has dried.
- **DO NOT** apply ~~CSI 16-199 B-N-P CS~~ CSI 16-199 B-N-P ZC directly to animals or pets.
- **DO NOT** spray into the air; only spray directed toward the specific use sites.
- Wear protective clothing, unvented goggles, gloves and respirator, when applying to overhead areas or in poorly ventilated areas. Avoid touching sprayed surfaces until spray has completely dried.
- During any overhead applications to overhead interior areas of structures except for soil surfaces in crawlspaces, cover surfaces below with plastic sheeting or similar materials.
- **DO NOT** spray when wind conditions could create a mist to blow back to applicator.
- **DO NOT** apply this product in or around bodies of water.
- **DO NOT** soak young or flowering plants.
- Applications to building foundations are restricted to a maximum height of 2 feet above grade.

**STORED PRODUCT PESTS (Cigarette Beetles, Confused Flour Beetles, Dermestid Beetles, Indian Meal Moths, Lesser Grain Borers, Merchant Grain Beetles, Pscocids, Red Flour Beetles, Rice Moths, Saw-toothed Grain Beetles, Tobacco Moths, and Warehouse Beetles):**

Use Sites	Application Method	Application Rate	Use Directions and Restrictions
<p>Interior application, including spot and crack and crevice</p> <p>Food serving areas/surfaces, non-food serving</p>	<p>Pressurized spray system capable of delivering a pin-point or variable spray pattern</p>	<p>1-2 fl. oz. per gallon of water to cover 1,000 ft<sup>2</sup></p>	<p><b>Crack and Crevice applications</b> may be made directly to cracks and crevices, baseboards, floors, corners, ceilings, walls, expansion joints, molding, areas around water and sewer pipes, and voids where pests can hide.</p> <p><b>Spot treatments</b> may also be made around storage areas, closets, around water pipes, doors and</p>

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areas/surfaces*	Low-pressure Sprayer		windows, behind and under refrigerators, cabinets, sinks, stoves and other equipment, shelves, and drawers. Make applications under and behind pallets, shelves and bins, garbage rooms, locker rooms, storage rooms, and other non-food/non-feed areas may also be treated.  Contact as many pests as possible.  Refer to FOOD HANDLING section for additional, more specific application instructions.  When used in treatment of food processing and food handling establishments and in food and non-food storage warehouses repeat application after 14 days. (Places other than private residences in which food is held, processed, prepared, or served.)
<b>RESTRICTIONS:</b> <ul style="list-style-type: none"><li>• In the home, cover all exposed food processing surfaces and utensils during treatment or thoroughly wash before reuse. Exposed food should be covered or removed.</li><li>• <b>DO NOT</b> permit humans or pets to contact treated surfaces until the spray has dried.</li><li>• During any overhead applications to overhead interior areas of structures except in crawlspaces over soil, cover surfaces below with plastic sheeting or similar materials.</li><li>• Wear protective clothing, unvented goggles, gloves and respirator, when applying to overhead areas or in poorly ventilated areas. Avoid touching sprayed surfaces until spray has completely dried.</li></ul>			
*General surface treatments are allowed only in food handling establishments. See Food Handling Establishments section for additional information.			

**FLYING INSECT PESTS (Flies, Gnats, Midges, Mosquitoes and Moths):**

~~CSI 16-199 B-N-P CS~~ [CSI 16-199 B-N-P ZC](#) may be used for the control of house flies, stable flies, moths, mosquitoes, nuisance flies (gnats, midges). The insect growth regulators in ~~CSI 16-199 B-N-P CS~~ [CSI 16-199 B-N-P ZC](#) cause a decrease in the number of viable eggs produced by treated adults. Fly larvae (maggots) treated with ~~CSI 16-199 B-N-P CS~~ [CSI 16-199 B-N-P ZC](#) cannot develop into normal adults. The adulticide in ~~CSI 16-199 B-N-P CS~~ [CSI 16-199 B-N-P ZC](#) will kill adult pests.

~~CSI 16-199 B-N-P CS~~ [CSI 16-199 B-N-P ZC](#) may be used for control of flying insect pests in, on and around residential, commercial, public, industrial and agricultural buildings. ~~CSI 16-199 B-N-P CS~~ [CSI 16-199 B-N-P ZC](#) may be used to control nuisance flies, gnats, midges, mosquitoes, and moths by application into moist breeding areas (potted plants, moist debris or litter) or into areas holding standing water such as gutters, drains, pools and fountains.

~~CSI 16-199 B-N-P CS~~ [CSI 16-199 B-N-P ZC](#) may be applied for MOSQUITO CONTROL at a rate of 1–2 fl. oz per 1,000ft<sup>2</sup> as a general surface treatment. For a list of approved application sites, please refer to the PRODUCT INFORMATION section of this label. Use ~~CSI 16-199 B-N-P CS~~ [CSI 16-199 B-N-P ZC](#) for control of mosquitoes that may potentially transmit malaria, Zika, and other arboviruses (West Nile, Dengue, Eastern Equine Encephalitis, and St. Louis Encephalitis Viruses.)

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To kill and control mosquitoes, apply to areas where mosquitoes are observed. Treat outside of surfaces of commercial, residential and non-commercial structures and buildings, including exterior siding, eaves, porches, door and window frames, carports, patios, under decks, porches, open crawlspaces, garages and around entry points using hand-held and backpack sprayers, power sprayers, mist blowers or other pressurized spray methods.

For application into landscapes to kill and control mosquitoes, apply 1–2 fl. oz per 1,000ft<sup>2</sup> of ~~CSI 16-199 B-N-P~~ [CS-CSI 16-199 B-N-P ZC](#) to plants and leaves and landscape areas, focusing on mosquito resting areas. Pay particular attention to vining groundcover, non-flowering bedding plants, ornamental plants, non-bearing crops/trees, undersides of leaves, and breeding areas.

Use Sites	Application Method	Application Rate	Use Directions
<p>Spot, crack and crevice interior applications to residential, commercial, public, industrial and agricultural buildings</p> <p>Food serving areas/surfaces, non-food serving areas/surfaces*</p>	<p>Pressurized spray system capable of delivering a pin-point or variable spray pattern</p> <p>Low-pressure Sprayer</p>	<p>1-2 fl. oz. per gallon of water to cover 1000 ft<sup>2</sup></p>	<p>To control mosquitoes, treat ornamental plants, hedges, and trees where flying insects may collect, rest or breed. Apply solution as a coarse, wetting spray to these areas. For drains, apply dilution to kill insects in/around the drain and catch basin area. When possible, in agricultural buildings only, treat flies observed on vertical surfaces surrounding breeding sites.</p> <p>Rates may be increased to 2 fl. oz. per gallon when environmental conditions are conducive to higher pest populations or high numbers of pests are present.</p> <p>Repeat application should only take place if there are signs of renewed activity and must not exceed one application every 14 days.</p>
<p>Fly breeding sites such as drains, traps of sinks, and in-floor drains</p>	<p>Foam application</p>	<p>1-2 fl. oz. per gallon of water to cover 1000 ft<sup>2</sup></p> <p>To convert to foam, add foaming agent at the manufacturer’s specified rate.</p>	<p>Using a professional foam applicator, apply finished foam to areas of fly breeding sites such as drains, traps of sinks, bathtubs and in-floor drains. For best results, foam should be applied thoroughly ensuring all void areas and fly breeding material is treated. Follow the requirements of the foam equipment manufacturer.</p> <p>Rates may be increased to 2 fl. oz. per gallon when environmental conditions are conducive to higher pest populations or high numbers of pests are present.</p>

<p>Exterior Applications to Residential, Commercial, Public, Industrial and Agricultural Buildings (up to 3 feet)</p> <p>For recreational areas: golf course out of play areas, native plantings, landscape beds, ornamental grasses, residential turf, around clubhouse buildings, maintenance facilities, pump houses and on-course lavatories</p>	<p>General Surface (including Broadcast, Spot and Crack and Crevice)</p>	<p>1-2 fl. oz. in a minimum of 1 gallon of water to cover 1,000 ft<sup>2</sup></p>	<p>Apply to outside surfaces of buildings, porches, patios, garages and other areas where these pests have been seen or found. To help prevent infestations of buildings by flying insects, treat the foundation to a height of 2 feet and treat soil, vegetation or other substrates in a band 7 feet wide adjacent to the building foundations, walls, around doors and windows, and overhead areas where these pests are active and may find entrance or harborage.</p> <p>For spot and crack or crevice applications, treat entry points such as around doorways, around windows, garbage and refuse areas.</p> <p>Apply to foliage and ornamental plants as well as into moist breeding areas: potted plants, moist debris or litter, or into areas holding standing water: gutters, drains, pools and fountains. Treat trash and refuse areas. Control will be enhanced when facilities are cleaned, and interior applications are supplemented with exterior perimeter treatments.</p>
<p>(For Mosquito Control Only)</p> <p>Exterior Applications to Residential, Commercial, Public, Industrial and Agricultural Buildings (up to 3 feet)</p> <p>For recreational areas, including golf course out of play areas, native plantings, landscape beds/plantings, ornamental grasses, residential turf, around clubhouse buildings,</p>	<p>Hand-held and back pack sprayers or mist blowers, ground sprayers, power sprayers</p>	<p>1-2 fl. oz. in a minimum of 1 gallon of water to cover 1,000 ft<sup>2**</sup></p>	<p>Use <del>CSI 16-199 B-N-P CS</del> <a href="#">CSI 16-199 B-N-P ZC</a> for control of mosquitoes that may transmit malaria, Zika, and arboviruses (West Nile Fever, dengue fever, Eastern equine encephalitis, and St. Louis encephalitis.)</p> <p><del>CSI 16-199 B-N-P CS</del> <a href="#">CSI 16-199 B-N-P ZC</a> may be applied for MOSQUITO CONTROL at a rate of 1 – 2 fl. oz per 1,000 ft<sup>2</sup> as a general surface treatment. For a complete list of approved application sites, refer to the PRODUCT INFORMATION section of this label.</p> <p>To kill and control mosquitoes on/around structures, apply as a general surface or spot treatment. Apply as a spot treatment</p>

<p>maintenance facilities, pump houses and on-course lavatories</p>			<p>to window frames, doors, garage doors, patios, carports and shutters, edges of siding and eaves unless permanently protected from rainfall by a covering, overhang, awning, or other structure.</p> <p>To kill and control mosquitoes on non-flowering ornamental plants, bushes, trees, vining ground cover, and hedges, apply as a broadcast application.</p> <p>Retreatment may be necessary to achieve and/or maintain control during periods of high pest pressure, or if there are signs of renewed pest activity. <b>DO NOT</b> apply more than once every 7 days.</p>
<p><b>RESTRICTIONS:</b></p> <ul style="list-style-type: none"> <li>• <b>DO NOT</b> permit humans, pets or livestock to contact treated surfaces until the spray has dried.</li> <li>• For mosquito control, <b>DO NOT</b> apply when wind speed exceeds 10 MPH.</li> <li>• <b>DO NOT</b> spray into the air; only spray directed at the specific use sites.</li> <li>• During any overhead applications to overhead interior areas of structures except soil surfaces in crawlspaces, cover surfaces below with plastic sheeting or similar materials.</li> <li>• Wear protective clothing, unvented goggles, gloves and respirator, when applying to interior overhead areas or in poorly ventilated areas. Avoid touching sprayed surfaces until spray has completely dried.</li> <li>• <b>DO NOT</b> spray when wind conditions could create a mist to blow back to applicator.</li> <li>• <b>DO NOT</b> apply this product in or around fish ponds or other bodies of water.</li> <li>• Applications to building foundations are restricted to a maximum height of 2 feet above grade.</li> <li>• <b>DO NOT</b> make outdoor broadcast applications when wind speed is 15 mph or greater.</li> <li>• <b>DO NOT</b> apply by aircraft or with handheld or truck mounted cold aerosol ULV sprayers and thermal fogging devices.</li> <li>• <b>DO NOT</b> apply more than 2 fl. oz. per 1000 ft<sup>2</sup> per application.</li> </ul>			
<p>*General surface treatments are allowed only in food handling establishments. See Food Handling Establishments section for additional information.</p>			
<p>**See DILUTION CHART FOR STRUCTURAL PERIMETER BARRIER APPLICATIONS for additional information on mix rates.</p>			

<sup>1</sup>To kill mosquitoes observed on , outside surfaces of commercial, residential and non-commercial structures and buildings, including exterior siding, eaves, porches, door and window frames, carports, patios, under decks, porches, open crawlspaces, garages and around entry points, treat using hand-held, backpack sprayers, power sprayers, mist blowers or other pressurized spray methods. Apply at a rate of 1–2 fl. oz per 1,000 ft<sup>2</sup>. Treat at a height of 2 feet on the foundation and in a band 7 feet wide adjacent to and around the structure where pests are observed.

<sup>2</sup>For application into landscapes, apply 1–2 fl. oz per 1,000ft<sup>2</sup> in a minimum of 1 gallon of water to foliage on ornamental plants, focusing on mosquito resting areas. Pay attention to non-flowering bedding plants, ornamental plants, non-bearing crops/trees, undersides of leaves. For best results apply when the mosquitoes are

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most active. Application during the cooler hours of the night or early mornings are recommended. **DO NOT** apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack-and-crevice treatment, unless permanently protected from rainfall by a covering, awning, or other structure.

## FOOD HANDLING ESTABLISHMENTS

**(Places other than private residences in which food is held, processed, prepared, or served):**

If used as a spot, general surface, or crack and crevice treatment, ~~CSI 16-199 B-N-P CS~~ [CSI 16-199 B-N-P ZC](#) may be applied in both food/feed and nonfood areas of food/feed handling establishments.

Food/feed handling establishments are any place other than private residences where exposed food/feed is held, processed, prepared or served, areas for receiving, storing, packing (bottling, boxing, canning, wrapping), preparing, enclosed processing systems (dairies, edible oils, mills, syrups) of food and edible waste storage. Serving areas where food is exposed, and the facility is in operation are also considered food areas.

Nonfood areas in which applications are allowed include entries and vestibules, floor drains (to sewers), garages, garbage rooms, lavatories, locker rooms, machine rooms, mop closets, offices, and storage (after canning or bottling).

Some of the use sites that are allowed include: Aircraft (cargo areas only), apartments, buildings, bakeries, bottling facilities, breweries, buses, cafeterias, candy plants, canneries, dairy product processing plants, food manufacturing plants, food processing plants, food service establishments, granaries, grain mills, hotels, industrial buildings, laboratories, meat/poultry/egg processing plants, mobile/motor homes, nursing homes, offices, railcars, restaurants, schools, ships, trailers, trucks, vessels, warehouses†, wineries.

†WAREHOUSES and GROCERY/PET STORES: ~~CSI 16-199 B-N-P CS~~ [CSI 16-199 B-N-P ZC](#) dilution may be applied as a surface, spot or crack and crevice treatment in food and nonfood storage warehouses and stores. Apply to all areas that may harbor pests, including under and between pallets, bins, and shelves. Do not apply directly to food, grain bins (interior), or animals.

**General Surface Application:** Do not use this application method in food/feed handling establishments when the facility is in operation or foods/feeds are exposed. During treatment, remove or cover all food processing and/or handling equipment and do not apply directly to food products. All equipment, benches, shelving and other surfaces in food processing plants, bakeries, cafeterias and other facilities, which food will contact must be washed after treatment. Clean food handling equipment or processing equipment and rinse completely with fresh, clean water.

**Spot, Crack and Crevice Application:** These types of treatments can be done when the facility is operating, but food should be covered or removed from the treatment area. **DO NOT** apply directly to food.

**Foam Applications:** Converting ~~CSI 16-199 B-N-P CS~~ [CSI 16-199 B-N-P ZC](#) to foam will allow it to be used to treat structural voids. To produce a foam concentration, dilute 1.0 – 2.0 fl. oz. of ~~CSI 16-199 B-N-P CS~~ [CSI 16-199 B-N-P ZC](#) per gallon of water and add the manufacturer’s specified amount of foaming agent. Before application, make sure that the foaming agent is compatible with CSI 16-199 B-N-P ~~CS~~[ZC](#).

Non-Agriculture Use

### LAWNS/TURFGRASS AND LANDSCAPE ORNAMENTALS

**(Not for use on Sod Farms, Golf Course Turf (playable areas), or grass grown for seed)**

~~CSI 16-199 B-N-P-CS~~ CSI 16-199 B-N-P ZC may be used for applications to maintain indoor or outdoor areas where turf and ornamentals are grown: residential lawns and landscaped areas, non-residential lawns and landscapes around institutional, public, commercial and industrial buildings, parks, recreational areas, and athletic fields (including trees, shrubs, flowers, evergreens, foliage plants and groundcovers).

Applicators must ensure that they are certified in the necessary pesticide certification categories to allow application of ~~CSI 16-199 B-N-P-CS~~ CSI 16-199 B-N-P ZC away from structures, such as to turf and ornamental plantings. Structural 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:** This product is highly toxic to bees exposed to direct treatment of residues on blooming crops or weeds. **DO NOT** apply this product or allow to drift to blooming crops if bees are visiting the treatment area.

#### RESTRICTIONS:

- **DO NOT** apply this product to edible crops.
- **DO NOT** apply this pesticide within 25 ft. of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds. Use of this pesticide adjacent to water may affect aquatic organisms.
- **DO NOT** make outdoor broadcast applications to turf and ornamentals when wind speed is 15 mph or greater.
- In the state of New York only, **DO NOT** apply within 100 ft. of coastal marshes, water bodies, or streams that drain into coastal marshes.

#### Mixing Instructions

~~CSI 16-199 B-N-P-CS~~ CSI 16-199 B-N-P ZC 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 CSI 16-199 B-N-P ~~CS~~ZC. It is suggested that the water be pH 5 - 7. Adjust water pH with a buffering agent if necessary. Slowly add ~~CSI 16-199 B-N-P-CS~~ CSI 16-199 B-N-P ZC 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

~~CSI 16-199 B-N-P-CS~~ CSI 16-199 B-N-P ZC may be tank mixed with other currently registered pesticides unless expressly prohibited by the product label. A small volume mixing test (jar test) with the other products is recommended to ensure compatibility. If other chemicals are added to the applicator tank, add ~~CSI 16-199 B-N-P-CS~~ CSI 16-199 B-N-P ZC last. Fill tank to desired volume and continue to agitate while making applications. If mixed with EC formulations, use within 24 hours.

Follow all restrictions and precautions which appear on the labels of these products.

**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.**

Non-Agriculture Use

**INSECT CONTROL IN LANDSCAPE ORNAMENTAL PLANTS AND INTERIORSCAPES:**

**INSECT CONTROL IN LANDSCAPE ORNAMENTAL PLANTS**

~~CSI 16-199 B-N-P CS~~ [CSI 16-199 B-N-P ZC](#) is for use to control the ornamental pests listed in the table below on ornamentals in landscaped areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas, and athletic fields (including trees, shrubs, flowers, evergreens, bedding plants, foliage plants and groundcovers). Direct applications as a full coverage onto plant foliage, leaves, soil and other areas to provide thorough coverage at the rates listed in the Interiorscapes, and Landscape Ornamental Application Rates table below. When pest pressure and foliage density increases, use higher rates. Foliage that emerges after application will not be protected.

**INSECT CONTROL IN INTERIORSCAPES:**

~~CSI 16-199 B-N-P CS~~ [CSI 16-199 B-N-P ZC](#) may also be used in interiorscapes: hotels, shopping centers, offices, and other indoor spaces. Direct applications as a full coverage onto plant foliage, leaves, soil and other areas to provide thorough coverage. When pest pressure and foliage density increases, use higher rates. Foliage that emerges after application will not be protected.

**Restrictions:**

- Applicators are required to select the nozzle and pressure that deliver a medium or coarser droplet size (ASABE S572).

To determine the appropriate amount of ~~CSI 16-199 B-N-P CS~~ [CSI 16-199 B-N-P ZC](#) to be mixed using the Interiorscapes, and Landscape Ornamental Application Rates table below, follow these steps:

- Identify the target pest present requiring the highest rate for control
- Choose the application rate based on the table
- Determine the needed volume to adequately cover foliage or area to be treated
- Mix the appropriate volume based on the application rate table and mixing chart

Higher application rates should be used when pest pressure is severe. Larger plants will require higher volumes of spray to achieve thorough coverage.

**INTERIORSCAPES AND LANDSCAPE ORNAMENTAL APPLICATION RATES**

Pest	Application Rate	
Bagworms Cutworms Elm Leaf Beetles Fall Webworms Gypsy Moth Caterpillars	0.25 – 0.50 fl. oz. per 1,000 ft <sup>2</sup>  10.8 – 21.6 fl. oz. per 100 gallons	For <b>Bagworm</b> control make applications, during their early larval stage when caterpillars are most susceptible.  Make applications as necessary to manage



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Lace Bugs Leaf Feeding Caterpillars Tent Caterpillars		pests but not more often than every 7 days.
Adelgids <sup>†</sup> Aphids Beet Armyworm Beetles <sup>†</sup> Black Vine Weevil (Adults) Brown Soft Scales Broad Mites Budworms California Red Scale (Crawlers) Centipedes Cicadas Citrus Thrips Clover Mites Crickets <i>Diaprepes spp.</i> (Adults) Earwigs European Red Mite Flea Beetles Fungus Gnats (Adults) Grasshoppers Japanese Beetle (Adult) <sup>†</sup> Leafhoppers Mealybugs Millipedes Mites Orchid Weevil Pillbugs Plant Bugs (including <i>Lygus spp.</i> ) Psyllids <sup>†</sup> Scale crawlers, such as California scale, San Jose scale, etc. Spider Mites Spiders Spittlebugs <sup>†</sup> Thrips Tip Moths Treehoppers <sup>†</sup> Twig Borers Wasps Weevils Whiteflies	0.50 – 1.0 fl. oz. per 1,000 ft <sup>2</sup>  21.6 – 43.4 fl. oz. per 100 gallons	For <b>Beetles, Scale Crawlers, Twig Borers and Weevils</b> , ensure thorough coverage of all plant parts including tree trunks, stems, buds, twigs and leaves.  For <b>Twospotted Spider Mite</b> control, apply during spring to mid-summer when conditions are conducive. Pay particular attention to areas of new growth. Use higher application rates and/or more frequent treatments for twospotted spider mite control during mid- to late-summer due to overlapping generations. Use of a surfactant or horticultural oil may increase the effectiveness of applications. Rotation of modes of action/active ingredients are recommended for resistance management of twospotted spider mites. Consult your local Cooperative Extension Service for resistance management recommendations in your area.  Make applications as necessary to manage pests but not more often than every 7 days.
Ants Imported Fire Ants Leafminers	1–2 fl. oz. per 1,000 ft <sup>2</sup>  43.4 – 87.0 fl. oz. per 100	For <b>Imported Fire Ants</b> , do not apply for foraging red imported ants on LANDSCAPE ornamental plants.

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Pecan Leaf Scorch Mite Pine Shoot Beetle (Adults) Sawfly larvae Spider Mites Stink Bugs	gallons	For <b>Twospotted Spider Mite</b> control, apply during spring to mid-summer when conditions are conducive. Pay particular attention to areas of new growth. Use higher application rates and/or more frequent treatments for twospotted spider mite control during mid- to late-summer due to overlapping generations. Use of a surfactant or horticultural oil may increase the effectiveness of applications. Rotation of modes of action/active ingredients are recommended for resistance management of twospotted spider mites. Consult your local Cooperative Extension Service for resistance management recommendations in your area.  Make applications as necessary to manage pests but not more often than every 7 days.
Mosquitoes	See Mosquito Control directions for residual control rates and information on previous relevant section.	
† Not for use in California		
<ul style="list-style-type: none"> <li>• Remove animals and pets prior to spraying treatment area.</li> <li>• <b>DO NOT</b> permit humans or pets to contact treated surfaces until the spray has dried.</li> <li>• <b>DO NOT</b> apply <del>CSI 16-199 B-N-P-CS</del> <a href="#">CSI 16-199 B-N-P ZC</a> directly to animals or pets.</li> <li>• <b>DO NOT</b> spray into the air; only spray directed toward the specific use sites.</li> <li>• Wear protective clothing, unvented goggles, gloves and respirator, when applying to overhead areas or in poorly ventilated areas. Avoid touching sprayed surfaces until spray has completely dried.</li> <li>• <b>DO NOT</b> spray when wind conditions could create a mist to blow back to applicator.</li> <li>• <b>DO NOT</b> apply this product in or around bodies of water.</li> <li>• <b>DO NOT</b> soak young or flowering plants.</li> </ul>		

~~CSI 16-199 B-N-P-CS~~ [CSI 16-199 B-N-P ZC](#) **Mixing Chart for Lawns, Turfgrasses and Landscape Ornamental Insect Pest Control**

(~~CSI 16-199 B-N-P-CS~~ [CSI 16-199 B-N-P ZC](#) to add per spray tank)

Rate of <del>CSI 16-199 B-N-P-CS</del> <a href="#">CSI 16-199 B-N-P ZC</a> (per 1000 ft <sup>2</sup> )	25 Gallons	50 Gallons	100 Gallons	200 Gallons	300 Gallons
0.25 fl. oz.	2.7 fl. oz.	5.4 fl. oz.	10.8 fl. oz.	21.6 fl. oz.	32.4 fl. oz.
0.5 fl. oz.	5.4 fl. oz.	10.8 fl. oz.	21.6 fl. oz.	43.2 fl. oz.	64.8 fl. oz.
1.0 fl. oz.	10.8 fl. oz.	21.7 fl. oz.	43.4 fl. oz.	86.8 fl. oz.	130.2 fl. oz.
2.0 fl. oz.	21.7 fl. oz.	43.5 fl. oz.	87.0 fl. oz.	174 fl. oz.	261 fl. oz.

**LAWN/TURFGRASS INSECT PEST CONTROL**

~~CSI 16-199 B-N-P-CS~~ [CSI 16-199 B-N-P ZC](#) is for use to control the lawn/turfgrass pests listed in the Rates for Lawn and Turfgrass Pests table below around: residential, institutional, public, commercial and industrial buildings, parks,

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recreational areas and athletic fields. Not for use on playable areas of golf courses.

**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).

**RATES FOR LAWN AND TURFGRASS PESTS**

Pest	Application Rate CSI 16-199 B-N-P <b>CSZC</b>	Application Instructions
Armyworms Cutworms Sod Webworms	0.36 – 0.50 fl. oz. per 1000 ft <sup>2</sup>	For <b>Armyworms, Cutworms and Sod Webworms, DO NOT</b> water immediately after application so the product remains on the leaf surface. Refrain from mowing for at least 2 days after application. Higher application rates may be needed for grass maintained at heights >1 inch, (Up to 1 fl. oz. per 1000 ft <sup>2</sup> ). During periods of high pest pressure, higher rates may also be required.  Make applications as necessary to manage pests but not more often than every 7 days.
Annual Bluegrass Weevil (Hyperodes) (Adult) Banks Grass Mite Billbugs (Adult) Black Turfgrass Ataenius (Adult) Centipedes Crickets Earwigs Fleas (Adults) Grasshoppers Leafhoppers Mealybugs Millipedes Mites Pillbugs Sowbugs	0.50 – 1.0 fl. oz. per 1000 ft <sup>2</sup>	For <b>Annual Bluegrass Weevil (<i>Hyperodes</i>) adults</b> , time applications to intercept adults as they emerge from overwintering sites and migrate towards turfgrass.  Use monitoring or scouting for timing of application or consult your State Cooperative Extension Service for more information regarding application timing in your area.  For <b>Billbug adults</b> , apply when adult billbugs are first observed. Use monitoring or scouting for timing of application or consult your State Cooperative Extension Service for information specific to your region.  For <b>Mites</b> , apply with a non-ionic surfactant for best results to enhance coverage and penetration into turf canopy. Multiple applications may be necessary for optimal control.  For <b>Black Turfgrass Ataenius adults</b> , for optimal control use monitoring or scouting to determine timing of application or consult your State Cooperative Extension Service for information specific to your region.
Crane Fly Larvae	1.0 fl. oz. per 1000 ft <sup>2</sup>	For <b>Crane Fly larvae</b> , make applications when larvae are feeding on plant crowns.

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<p>Ants Chinch Bugs Fleas (Larvae) Imported Fire Ants Japanese Beetle (Adult) Mole Cricket (Adult) Mole Cricket (Nymph) Stink Bugs Ticks (including species that transmit Lyme disease)</p>	<p>1-2 fl. oz. per 1000 ft<sup>2</sup></p>	<p>For <b>Chinch Bugs</b>, apply after thorough watering of lawn/turf to enhance penetration of the thatch layer. Apply in a minimum of 2 gal of application volume per 1,000 ft<sup>2</sup>.</p> <p>The higher rate range (up to 2 fluid oz. per 1000 ft<sup>2</sup>.) may be required when pressure is severe.</p> <p>For <b>Flea Larvae, Imported Fire Ants, and Ticks</b>, refer to relevant section above.</p> <p>For <b>Mole Cricket adults</b>, for best results, target small nymphs, before large nymphs and adults develop. During dry periods, irrigating prior to application will bring mole crickets closer to the surface where applications can be more effective. Surface activity is greatest at night, so late afternoon/evening applications are recommended. Apply at a minimum of 2 gallons of finished solution per 1,000 ft<sup>2</sup>.</p> <p>For <b>Mole Cricket nymphs</b>, make applications as close to egg hatch as possible because small nymphs are most susceptible to insecticide applications. Focus on areas where adult activity was highest in the spring. For optimal control, use monitoring or scouting (such as soap flushes) to determine timing of application. Later in the year, when nymphs are larger, higher application rates and more frequent applications may be necessary to achieve adequate control. During dry periods, irrigating prior to application will bring mole crickets closer to the surface where applications can be more effective. Surface activity is greatest at night, so late afternoon/evening applications are recommended.</p>
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**~~CSI 16-199 B-N-P CS~~ CSI 16-199 B-N-P ZC Mixing Chart for Turf Insect Pest Control**

<del>CSI 16-199 B-N-P CS</del> CSI 16-199 B-N-P ZC Application Rate fl. oz. / 1000 ft <sup>2</sup>	Application Volume gal / 1000 ft <sup>2</sup>	fl. oz. of <del>CSI 16-199 B-N-P CS</del> CSI 16-199 B-N-P ZC diluted to these volumes of finished spray			
		1 gallon	5 gallons	10 gallons	100 gallons
0.36	1	0.36	1.8	3.6	36
0.50	1	0.50	2.5	5.0	50
1.0	1	1.0	5	10.0	100
2.0	1	2.0	10	20.0	200
0.36	2	0.18	0.9	1.8	18
0.50	2	0.25	1.25	2.5	25
1.0	2	0.5	2.5	5.0	50
2.0	2	1	5	10	100
0.36	3	0.12	0.6	1.2	12
0.50	3	0.17	0.85	1.7	17
1.0	3	0.33	1.65	3.3	33
2.0	3	0.67	3.35	6.7	67
0.36	4	0.09	0.45	0.9	9
0.50	4	0.13	0.65	1.3	13
1.0	4	0.25	1.25	2.5	25
2.0	4	0.5	2.5	5.0	50

Uses for Agricultural Production

**INSECT CONTROL IN GREENHOUSES AND SHADEHOUSES:**

~~CSI 16-199 B-N-P CS~~ CSI 16-199 B-N-P ZC may also be used in greenhouses and shadehouses. Direct applications as a full coverage onto plant foliage, leaves, soil and other areas to provide thorough coverage. When pest pressure and foliage density increases, use higher rates. Foliage that emerges after application will not be protected.

**Restrictions:**

- **DO NOT** apply when the wind speed is greater than 15 mph.
- Applicators are required to select the nozzle and pressure that deliver a medium or coarser droplet size (ASABE S572).

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- 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.

To determine the appropriate amount of ~~CSI 16-199 B-N-P CS~~ [CSI 16-199 B-N-P ZC](#) to be mixed using the Greenhouses and Shadehouses directions, follow these steps:

- Identify the target pest present requiring the highest rate for control
- Choose the application rate based on the table
- Determine the needed volume to adequately cover foliage or area to be treated
- Mix the appropriate volume based on the application rate table and mixing chart

Higher application rates should be used when pest pressure is severe. Larger plants will require higher volumes of spray to achieve thorough coverage.

#### GREENHOUSE AND SHADEHOUSES APPLICATION RATES

Pest	Application Rate	
Bagworms Cutworms Elm Leaf Beetles Fall Webworms Gypsy Moth Caterpillars Lace Bugs Leaf Feeding Caterpillars Tent Caterpillars	0.25 – 0.50 fl. oz. per 1,000 ft <sup>2</sup>  10.8 – 21.6 fl. oz. per 100 gallons	For <b>Bagworm</b> control make applications, during their early larval stage when caterpillars are most susceptible.  Make applications as necessary to manage pests but not more often than every 7 days.
Adelgids <sup>†</sup> Aphids Beet Armyworm Beetles <sup>†</sup> Black Vine Weevil (Adults) Brown Soft Scales Broad Mites Budworms California Red Scale (Crawlers) Centipedes Cicadas Citrus Thrips Clover Mites Crickets <i>Diaprepes spp.</i> (Adults) Earwigs European Red Mite Flea Beetles Fungus Gnats (Adults) Grasshoppers Japanese Beetle (Adult) <sup>†</sup> Leafhoppers	0.50 – 1.0 fl. oz. per 1,000 ft <sup>2</sup>  21.6 – 43.4 fl. oz. per 100 gallons	For <b>Beetles, Scale Crawlers, Twig Borers and Weevils</b> , ensure thorough coverage of all plant parts including tree trunks, stems, buds, twigs and leaves.  For <b>Twospotted Spider Mite</b> control, apply during spring to mid-summer when conditions are conducive. Pay particular attention to areas of new growth. Use higher application rates and/or more frequent treatments for twospotted spider mite control during mid- to late-summer due to overlapping generations. Use of a surfactant or horticultural oil may increase the effectiveness of applications. Rotation of modes of action/active ingredients are recommended for resistance management of twospotted spider mites. Consult your local Cooperative Extension Service for resistance management recommendations in your area.  Make applications as necessary to manage pests but not more often than every 7 days.

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<p>Mealybugs Millipedes Mites Orchid Weevil Pillbugs Plant Bugs (including <i>Lygus</i> spp.) Psyllids<sup>†</sup> Scale crawlers, such as California scale, San Jose scale, etc. Spider Mites Spiders Spittlebugs<sup>†</sup> Thrips Tip Moths Treehoppers<sup>†</sup> Twig Borers Wasps Weevils Whiteflies</p>		
<p>Ants Imported Fire Ants Leafminers Pecan Leaf Scorch Mite Pine Shoot Beetle (Adults) Sawfly larvae Spider Mites Stink Bugs</p>	<p>1–2 fl. oz. per 1,000 ft<sup>2</sup>  43.4 – 87.0 fl. oz. per 100 gallons</p>	<p>For <b>Imported Fire Ants</b>, do not apply for foraging red imported ants on ornamental plants.</p> <p>For <b>Twospotted Spider Mite</b> control, apply during spring to mid-summer when conditions are conducive. Pay particular attention to areas of new growth. Use higher application rates and/or more frequent treatments for twospotted spider mite control during mid- to late-summer due to overlapping generations. Use of a surfactant or horticultural oil may increase the effectiveness of applications. Rotation of modes of action/active ingredients are recommended for resistance management of twospotted spider mites. Consult your local Cooperative Extension Service for resistance management recommendations in your area.</p> <p>Make applications as necessary to manage pests but not more often than every 7 days.</p>
<p>Mosquitoes</p>	<p>See Mosquito Control directions for residual control rates and information on previous relevant section.</p>	
<p><sup>†</sup> Not for use in California</p>		
<ul style="list-style-type: none"> <li>• Remove animals and pets prior to spraying treatment area.</li> <li>• <b>DO NOT</b> permit humans or pets to contact treated surfaces until the spray has dried.</li> <li>• <b>DO NOT</b> apply <del>CSI 16-199 B-N-P CS</del> <a href="#">CSI 16-199 B-N-P ZC</a> directly to animals or pets.</li> <li>• <b>DO NOT</b> spray into the air; only spray directed toward the specific use sites.</li> </ul>		

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- Wear protective clothing, unvented goggles, gloves and respirator, when applying to overhead areas or in poorly ventilated areas. Avoid touching sprayed surfaces until spray has completely dried.
- **DO NOT** spray when wind conditions could create a mist to blow back to applicator.
- **DO NOT** apply this product in or around bodies of water.
- **DO NOT** soak young or flowering plants.

### **CONFINED ANIMAL ENCLOSURES, LIVESTOCK AND POULTRY HOUSING STRUCTURES AND PREMISES**

Controls pests of poultry and livestock facilities, including biting flies, filth-breeding flies, fleas, litter beetles, hide beetles, bed bugs, mites and ticks. Apply as a general surface (including directed spray) and/or crack and crevice treatment. Control is enhanced when facilities are cleaned, and interior and exterior perimeter applications are made in and around the livestock or poultry housing structures. Normal cleaning practices of the structure also must be followed along with applications of ~~CSI 16-199 B-N-P CS~~ [CSI 16-199 B-N-P ZC](#) to effectively control crawling and flying insect pests.

To control bed bugs, mites and ticks in animal facilities, treat cracks/crevices, walls, posts, nest boxes and mobile side curtains.

**Allow ~~CSI 16-199 B-N-P CS~~ [CSI 16-199 B-N-P ZC](#) to dry before applying disinfectants.**



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Use Sites	Application Method	Application Rate	Use Directions and Restrictions
Occupied areas of poultry and livestock facilities	Low-pressure Sprayer	0.66 – 2.0 fl. oz in a minimum of 1 gallon of water to cover 1,000 ft <sup>2</sup>	For adult fly control in and around animal facilities, spray application should target areas where flies will rest: the ceiling, rafters and trusses. Also treat windows, interior and exterior walls and supports, fences and vegetation. <del>CSI-16-199-B-N-P-CS</del> <a href="#">CSI 16-199 B-N-P ZC</a> may be sprayed on manure in areas where fly larvae are abundant and the area cannot be cleaned.
Unoccupied areas of poultry facilities	General Surface, Crack and Crevice and Spot Spray	0.66 – 2.0 fl. oz in a minimum of 1 gallon of water to cover 1,000 ft <sup>2</sup>	<p>Apply to floors, vertical and overhead surfaces where crawling or flying insect pests may be present. Feeders, waterers and feed carts must be covered before application to prevent contamination. Do not apply to milk rooms. Pay attention to animal areas: stanchions, pipes, windows, doors and areas where insect pests hide or congregate. Exterior applications to walls and foundation perimeters can help prevent interior infestations of flying and crawling insect pests.</p> <p>For poultry [broiler, turkey brooder and turkey grow out/finishing] houses, apply to floor area (birds grown on litter) or to walls, posts and cage framing (birds grown in cages). Application should also be made into cracks and crevices around insulation. Reapply after each grow out or de-caking and sanitizing procedure, but not more frequently than every 8 weeks. Indoor control can be enhanced by making perimeter treatments around the outside of building foundations to prevent immigrating adult beetles. Apply in a uniform band 2 feet up and 7 feet out from the structure. Maintaining a year-round treatment program will prevent background populations from reaching problem levels.</p> <p>To control beetles in houses containing birds grown on litter, apply <del>CSI-16-199-B-N-P-CS</del> <a href="#">CSI 16-199 B-N-P ZC</a> after birds are removed and all litter management activities are complete. If all litter is removed and replaced with fresh bedding, apply <del>CSI-16-199-B-N-P-CS</del></p>

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			<p><a href="#">CSI 16-199 B-N-P ZC</a> to new bedding after it is spread. Apply spray to inside walls, posts and exterior perimeter. Reapply between each flock.</p> <p>Allow <del>CSI 16-199 B-N-P CS</del> <a href="#">CSI 16-199 B-N-P ZC</a> treatment to dry before applying disinfectants.</p> <p>To control beetles in broiler-breeder houses, apply as directed above for litter and soil/floor treatment.</p> <p>To control beetles in caged-layer houses, do not treat accumulated manure as it will likely disrupt natural enemies that control fly breeding. Instead, treat the perimeter of the manure. Pit walls, posts and exterior of structure should also be sprayed. Reapply between each flock.</p>
<b>RESTRICTIONS:</b> <ul style="list-style-type: none"><li>• <b>DO NOT</b> treat birdcages or stock pens when animals are present.</li><li>• <b>DO NOT</b> apply <del>CSI 16-199 B-N-P CS</del> <a href="#">CSI 16-199 B-N-P ZC</a> directly to animals.</li><li>• <b>DO NOT</b> allow animals back in treated areas of facility until treated areas have dried.</li><li>• <b>DO NOT</b> apply directly to any natural bodies of water such as ponds, lakes, streams, rivers, marshes, potholes, and estuaries.</li><li>• <b>DO NOT</b> apply <del>CSI 16-199 B-N-P CS</del> <a href="#">CSI 16-199 B-N-P ZC</a> to any animal feed, water or watering equipment.</li><li>• <b>DO NOT</b> contaminate any animal feed, food or water in and around livestock or poultry housing when making applications.</li><li>• <b>DO NOT</b> contaminate feeders, waterers, or feed carts during application. Feed carts must be covered before application.</li><li>• <b>DO NOT</b> apply to milk rooms.</li></ul>			

Insecticide Class Rotations: In order to avoid problems with developed resistance to insecticides, it is important to rotate to an insecticide of a different class each 2-3 flocks. It is best to attempt to use 3 different classes of insecticides during a calendar year.

<p style="text-align: center;"><b>STORAGE AND DISPOSAL</b></p> <p><b>DO NOT</b> contaminate water, food or feed by storage or disposal.</p> <p><b>PESTICIDE STORAGE:</b> Store upright at room temperature. Avoid exposure to extreme temperatures. In case of spillage or leakages, soak up with an absorbent material such as sand, sawdust, earth, Fuller’s earth, etc. Dispose of with chemical waste.</p> <p><b>PESTICIDE DISPOSAL:</b> Do not pour or dispose down-the-drain or sewer. Call your local solid waste agency for local disposal options.</p> <p><b>CONTAINER HANDLING:</b> <i>For Containers equal to or less than 5 Gallons:</i> Nonrefillable container. <b>DO NOT</b> reuse or refill this container. Clean container 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. Offer for recycling if available. If recycling is not available, then dispose of container in a sanitary landfill</p>
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[Text in brackets alone are optional statements or alternative statements.]

[Text separated by “/” indicates an either/or choice.]

*For Containers greater than 5 Gallons:* Nonrefillable container. **DO NOT** reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling if available. If recycling is not available, then dispose of container in a sanitary landfill.

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.

#### **LIMITATION OF WARRANTY AND LIABILITY**

The Directions for Use of this product should 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 Control Solutions, Inc. 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 Control Solutions, Inc. and Seller harmless for any claims relating to such factors.

Control Solutions, Inc. 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 abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or Control Solutions, Inc., and Buyer and User assume the risk of any such use. To the extent permitted by applicable law, **CONTROL SOLUTIONS, INC. MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.**

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*[OPTIONAL MARKETING STATEMENTS]*

*[Miscellaneous Efficacy related claims]*

- Effective control of [Fleas,] [Cockroaches,] [Flies,] [Mosquitoes,] [Gnats,] [Crickets,] [Litter Beetles] [&] [Ants]
- Effective control of listed pests
- Continuous protection against stored product pests for 3 months
- Breaks the cycle of [insect reproduction to control] Fleas, Stored Product Pests, Cockroaches, Flies, and other listed insect pests
- Breaks the lifecycle of listed pests

*[Flea Efficacy related claims]*

- Inhibits re-infestation by fleas for up to 7 months
- Kills pre-adult/larval fleas, [including eggs] for up to [210 days] [30 weeks] [7 months]
- Larvae crawling on treated areas will not develop into adult fleas
- Inhibits re-infestation by fleas for up to [210 days] [30 weeks] [7 months]
- [Disrupts] [Breaks] the life cycle of fleas
- [Two] [2] applications per year, keep fleas under control
- Prevents larval fleas from developing into the biting adult stage
- Keeps flea eggs from hatching
- Kills and controls fleas and ticks
- Controls fleas and ticks
- Kills fleas and ticks
- Inhibits the development of fleas for 7 months
- Reduces flea population
- Flea eggs and flea larvae that come into contact will not develop into adult fleas
- Works up to 7 months by inhibiting the development of the immature stages of the flea
- Prevents fleas from becoming biting adults
- Apply prior to flea season to reduce developing populations
- Prevents the emergence of adult fleas and ticks
- Controls immature stages of fleas

*[Cockroach Efficacy Related Claims]*

- Inhibits re-infestation by cockroaches for up to 6 months

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[Text in brackets alone are optional statements or alternative statements.]

[Text separated by “/” indicates an either/or choice.]

- One treatment works for 6 months against hatching cockroaches and crickets
- One treatment stops cockroaches from generating reproductive offspring for up to [180 days] [26 weeks] [6 months]
- [One treatment] [Interrupts] [breaks] the life cycle of listed cockroaches for up to [180 days] [26 weeks] [6 months]
- [One treatment] Inhibits re-infestation by cockroaches for [180 days] [26 weeks] [6 months]
- Effectively controls cockroach populations by preventing reproduction [thereby eliminating future generations]
- [Prevents] [stops] [inhibits] nymphal cockroaches from becoming adults [breeding adults] [reproductive adults] [egg laying adults]
- Kills indoor and outdoor infesting cockroaches
- Kills and controls indoor and outdoor cockroaches
- Controls [German,] [American,] [Oriental,] [Smokybrown,] [Asian,] [Turkestan,] [Brownbanded] cockroaches

#### *[Mosquito Efficacy Related Claims]*

- Kills mosquitoes including those that may transmit [West Nile] [and] [Zika] virus
- Kills mosquitoes[, listed flies and gnats [and other labeled [pests][insects]]]
- Kills mosquitoes on [ornamental] [plant[s]] [hedges] [shrubs] [leaves] in your yard for 30 days
- Controls mosquitoes on [ornamental] [plant[s]] [hedges] [shrubs] [leaves] in your yard for 30 days
- Controls mosquitoes on [ornamental] [plant[s]] [hedges] [shrubs] [leaves] for 30 days
- Controls mosquitoes on [ornamental] [plant[s]] [hedges] [shrubs] [leaves] [in your yard]
- Controls (*Anopheles*, *Culex*, *Aedes*) mosquitoes on [ornamental] [plant[s]] [hedges] [shrubs] [leaves] for 30 days
- Kills mosquitoes on trees in your yard for 30 days
- Controls mosquitoes on trees in your yard for 30 days
- Controls mosquitoes on trees for 30 days
- Controls mosquitoes on trees [in your yard]
- Controls (*Anopheles*, *Culex*, *Aedes*) mosquitoes on [ornamental] [plant[s]] [leaves] for 30 days
- Controls (*Anopheles*, *Culex*, *Aedes*) mosquitoes on trees (for 30 days)
- Kills mosquitoes

#### *[Fly Related Efficacy Claims]*

- Reduces egg production in houseflies and prevents development of larvae into adults for up to [210 days] [30 weeks] [7 months]
- Keeps maggots from becoming [adult] flies

#### *[Use/Formulation related claims]*

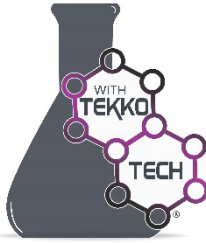
- For use in Animal Quarters, Kennels and Poultry Houses
- For both indoor/outdoor use
- Intended for Pest Control Operators and Commercial Use
- Microencapsulated Insecticide with Insect Growth Regulators for Control of Fleas, Stored Product Pests, Cockroaches, Crickets, Litter Beetles, and Flying Insects.
- Microencapsulated formulation with three/3 modes of action
- Triple threat for listed pests
- Labeled for use in food areas of food handling establishments.
- Labeled for Spot and/or Crack and Crevice use in food-handling establishments.

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- Contains adulticide and two [2] insect growth regulators [IGRs]
- Contains Tekko® Technology
- With Tekko® Technology



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- Convenient [combination][all-in-one] product
- Ideal for use before outdoor [activities][events]
- Encapsulated Solutions



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