## CYZMIC® CS



Controlled Release Insecticide



For use in, on and around buildings and structures for the control of listed gests, including on lawns, ornamental trees and shrubs around residential, institutional, public, commercial, apricultural and industrial buildings; and parks, recreational areas and athletic fields.

### ACTIVE INGREDIENTS:

(S\*),3 a(Z)]-(±)-cyano-(3-phenoxyphenyl) methyl-3-

[2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarbaxylate ....9.7%
OTHER INGREDIENTS:

inthetic pyrethroid

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional precautionary statements and directions for use in booklet EPA Rea. No. 53883-389 FPA Fst No. 53883-TX-002





Manufactured by: Control Solutions Inc. 5903 Genoa-Red Bluff, Pasadena, TX 77507

FPA 051017

	FIRST AID
If swallowed:	Call a poison control center or doctor immediately for treatment advice.     Have person sip a glass of water if able to swallow.

- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything to an unconscious person.

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<sup>®</sup> International for emergency medical treatment at (866) 897-8050.

### PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals CAUTION: Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

### ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish. 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 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. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Apply this product only as specified on this label.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are foracing the treatment area.

### PHYSICAL AND CHEMICAL HAZARDS

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

### PRODUCT INFORMATION

**CYZMIC CS** is a unique formulation utilizing CapVantage<sup>™</sup> Technology which is a proprietary blend of ingredients for use with the active ingredient Lambda-cyhalothrin.

### DIRECTIONS FOR USE

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

IMPORTANT: Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or on lawns or grounds.

This product is RESTRICTED for use in New York State.

Do not allow children or pets to contact treated surfaces until spray has dried.

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

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

- 1. Applications to soil or vegetation around structure;
- 2. Applications to lawns, turf, and other vegetation;
- 3. Applications to building foundations, up to a maximum height of 3 feet above grade;

- Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning or other structure:
- Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width:
- 6. Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, fur, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in runoff into storm drains, drainage ditches, gutters, or surface waters, in order to control occasional invaders or aggregating pests.

Do not water the treated area to the point of runoff.

Do not make applications during rain.

Do not apply directly to sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur, except as directed by this label.

### PERIMETER PEST CONTROL

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

Nonfood/nonfeed areas of food/feed handling establishments include garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling).

For indoor applications, **CYZMIC CS** can be reapplied at 21-day intervals if necessary.

### Mixing Instructions

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

### Tank Mixing

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

**CYZMIC CS** may be tank mixed with an Insect Growth Regulator (IGR). Follow all restrictions and precautions which appear on the labels of these products.

### **Foam Applications**

CYZMIC CS may be converted to a foam and the foam used to treat structural voids to control or prevent pests including ants, bees, termites (above ground only), wasps, or other listed arthropods harboring in walls, under slabs, or in other void areas.

## RATES FOR PESTS (HAND APPLICATION EQUIPMENT)

	Pests	Dilution Rate (Concentration of AI)	SPECIFIC USE DIRECTIONS
0	Ans.  Bess Bebrugsjadut) Bess Bebrugsjadut) Bess Capeler Bey Carpet Bet Bess Capeler Bebrugs Carpet Bet Bess Caper Miss Coord Miss Coord Miss Coord Miss Province Bet Bet Bess Services Bet Bess Bet Bess Services B	0.2 f.l. oz. (6 ml.) (6 ml.) 0.4 fl. oz. (12 ml.) per gallon of water (0.015-0.03%A)	Ants. Apply to any trails around doors and windows and windows and windows the area files may be found. Loza be and rear lessis. Where ansit are trailing sixtle, angly as a residual surface treatment to active areas such as beachasts, comers, and behind and under refrigerations, sinks, furnaces and stoves, cracks and crevices. When combining basis and residual surface insecticities in corps, surface insecticities in crack and reviews, angly surface insecticities in crack and reviews, angly surface insecticities in crack and reviews, angly surface insecticities in crack and reviews, along baseboards, and infested surfaces and outside barrier transmits. Use balls in other areas that are trained by residual insecticities, also see Outdoor Surfaces Use.

Pests	sts	Dilution Rate (Concentration of Al)	SPECIFIC USE DIRECTIONS
Flies			Bedbugs: Clean floors and surfaces by vacuuming.
Lesser Grain Borers	Borers		Apply as a coarse, low-pressure spray to harborage
Millipedes			areas including crevices, baseboards, loose plaster,
Mosquitoes			behind bed frames and headboards, beneath beds and
Red Flour Beetles	etles		furniture, and to bedsprings and bed frames.
Rice Weevils			No not apply to furniture surfaces or mattresses
Saw-toothed Grain	Grain		where neonle will he laving or eithing Infested
Beetles			hadding should not be treated but should be
Silverfish			removed placed in sealed plastic hars and taken for
Sow bugs			laundering and drying at high temperatures
Spiders			management of July or might composition.
Stink Bugs			
Ticks			
Wasps			

Pests	Dilution Rate (Concentration of Al)	SPECIFIC USE DIRECTIONS
Cockreaches Cockreat Files Fil	0.8 f L oz. (2.4 mL) per gallon of water (0.06% A)	Cocknoches, Chickets, Eavilgs, Fletherts, Sherites, Sherites, Sherites and Stink Bags, Appl 2-a cross, Sherites, Sheles and Stink Bags, Appl 2-a cross, strong see peits hid, so und hat beselvant, strong artists, other actives the sees, calherist, behind and under infligeration, sinks, furnase and strong the under infligeration, sinks, furnase and strong the under infligeration, sinks, and strong the under infligeration, sinks, and strong the under infligeration, sinks, and consistent areas. Pap particular alterior to cracks and crevious, also see Outdoor Surfaces Use.

(continued)

Pests	Dilution Rate (Concentration of AI)	SPECIFIC USE DIRECTIONS
		Bees, Flies, Mosquitoes, and Wasps: Apply directly
		to walls, ceilings, window screens, and other resting
		areas as a residual surface treatment. May be used
		inside residential buildings as well as in and around
		carports, garages, and storage sheds; also see Outdoor
		Surfaces Use. Use caution when treating nests of
		stinging in sects as CYZMIC CS does not provide instant
		knockdown. Protective equipment for the applicator
		may be required. Treat bee, wasp and homet nests
		late in the day when most insects will be present. Allow
		2-3 days for the colony to die and repeat after 21 days,
		if necessary.

Pests	Dilution Rate (Concentration of Al)	SPECIFIC USE DIRECTIONS
		Yards or other frequented areas enclosed by
		landscaping can benefit from the creation of a
		mosquito barrier to reduce invading mosquitoes by the
		treatment of perimeter vegetation. Apply CYZMIC CS
		at specified rates in 2-5 gals. Of water per 1,000 sq.
		ft. Carpenter Bees: Apply coarse spray to thoroughly
		wet wood surfaces where bees have been previously
		active or to provide protection against further damage.
		Apply early in the spring to prevent bees from invading
		wood. When bees have infested wood, surface
		applications can help control embedded larvae and
		bees that emerge from the wood.

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

	Boxelder Bugs, Centipedes, Millipedes, Pillbugs, and Sow bugs: Apply around doors and windows and other phase above those and other phase and
	Sow bugs: Apply around doors and windows and other
	nlaces where these nests may be found or where they
	places milete lifese bests illed be ionile of milete lifes
	may enter premises. Treat baseboards, storage areas, and
	other locations. Apply treatments to prevent infestation as
	described below; also see Outdoor Surfaces Use.
	Fleas and Ticks: To control nuisance fleas and ticks (e.g.
	dog ticks) apply to kennels, yards, runs, and other areas
	where pets may frequent. To control ticks, apply using a
	coarse fan spray to vegetation brush, branches, rock walls,
	and other areas near habitation where ticks may harbor
	or frequent. Treat entire area rather than making spot
	treatments, and retreat as necessary to maintain control.

Pests	Dilution Rate (Concentration of AI)	SPECIFIC USE DIRECTIONS
		Do not apply to pasture or cropland, and do not allow animals and people access to treated areas until the
		ueposi itas uneu. Approatura cai uegii iii iie syiiiig and can continue untii frost to control both lavvae and adult ticks; also see <b>Outdoor Surfaces Use</b> .
		Cluster Files: Apply in late summer or early fall before files are observed alighting on surfaces. Apply thoroughly no siding in indee pages and annual windows and diones.
		paying particular attention to south-facing surfaces, but do not allow runoff to occur. Heavy precipitation prior to
		frost may require retreatments to maintain protection. In winter and spring when flies become active and are
		emerging, interior crack and crevice and void treatments can help reduce the infestation, along with ULV or general
		surface application in infested attics or unoccupied lofts.
		(continued)

Litter Reeties (Parkling, Hub, and Carrion Beetles) and Filter in Animal Housing (Stoch & Pourly Houses): To control auth filter breities, apply CYZMIC GS to walls and floors at cleanout, before rethrolloud on of animals. This will supposes beetles that excapted earlier transmert and will helpday orace for thore intestations. Ray attention to areas where beetles interesting and will require to a subset of thore intestations. Ray attention to areas where beetles interesting and will require a country cages, stalls, and carund feetless, to help control flas, apply a finited application to horizonial surfaces and overhead areas and about to horizonial surfaces and overhead areas and about to horizonial surfaces and of animals, also see LivesbockPoultry Housing Structures and Park Keinels.	Pests	Dilution Rate (Concentration of Al)	SPECIFIC USE DIRECTIONS
and Files In Joinna Housing (Such & Poultry Housing) to control and life the election and CYMING St ovals and those at dearont, before cherbourdion of ainmas. The Will suppress beelies the escaped earlier treatment and Will help delay one of future intestations. Pay attention to areas where beeles interpuelly occur, such as walk, supports, agas, stalls, and acutoff beeles. To help control first, apply a directed application to brozonital surfaces and apply a directed application to brozonital surfaces and overhead areas and altiture and Pet Memiles.			Litter Beetles (Darkling, Hide, and Carrion Beetles)
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CYMIC St to walls and floors at cleanout, thefore intribution of animals. This will suppose beekles that escaped earlier treatment and will helpdely oreset of future infestations. Pay attention to areas where beekles internation or such as walks, supports, casps, stalls, and cannot feeders, the lace control floor or floor apply a firested application to horizontal surfaces and overhead areas and allow to fin pletor entrolucition of animals, also see LivesbockPoulity Housing Structures and Pet Kennels.			Houses): To control adult litter beetles, apply
reinfounding of aims. This will suppress beeling the escaped earlier treatment and will help delay oreset of future intestations. Pay attention to areas where heleels requestly occur, such as walks, supports, agass, stalls, and acutoff beeleds. To help control field, apply a directed application to horozontal surfaces and apply a directed application to horozontal surfaces and overhead areas and altiture asset and abut to the before einforduction of animals, also see LivesbockPoutity Housing Structures and Parl Kennels.			CYZMIC CS to walls and floors at cleanout, before
In the case parties related restination and will help deap rosest of tuture in installation. Pay attention to areas where beetless integrated to court, sorth as wells, supports, beetless frequently court, sorth as wells, supports, against a case, and a demonstrated as the proposed areas and allow to dry before relationskichon of arminist, also see AreasoukPountly Housing of a minist, as and Pel Mennels.			reintroduction of animals. This will suppress beetles
of future infestations. Pay attention to areas where better infestations. Pay attention to a son as well's support's capes, stalls, and cannot feeders, the legicontrol fless, apply a directed application to horizontal surfaces and owners and advision to the botto entirobuction of animats, also see LivesbockPoulity Neusing Structures and Parl Kennels.			that escaped earlier treatment and will help delay onset
beeles frequenty occur, such as walk, supports, agapts, stable, and amount leveles. To help control first, and apply a directed application to incrontrolls surfaces and above to the control first, and everhead areas and above to the petitor entiroduction of animals, also see LivesbockPourlity Housing of animals and Petit Kennels.			of future infestations. Pay attention to areas where
capes, stalls, and around feeders. To help control flies, apply of inched application to horizontal strates and overhead areas and allow to dry before reintroduction of animals, also, see I kneeptock/Poulity Housing Structures and Pet Kennels.			beetles frequently occur, such as walls, supports,
apply a directed application to horizontal surfaces and overhead areas and ablin with tylence reinforbuction of animatic, also, see I, Iwestock/Pourlity Nousing Structures and Pet Kennels.			cages, stalls, and around feeders. To help control flies,
overhead areas and allow to dry before reintroduction of animals; also see <b>Livestock/Poultry Housing</b> <b>Structures and Pet Kennels.</b>			apply a directed application to horizontal surfaces and
of animals, also see Livestock/Poultry Housing Structures and Pet Kennels.			overhead areas and allow to dry before reintroduction
Structures and Pet Kennels.			of animals; also see Livestock/Poultry Housing
			Structures and Pet Kennels.

Pests	Dilution Rate (Concentration of Al)	SPECIFIC USE DIRECTIONS
Termites	0.2 f l. oz. (6mL)	CYZMIC CS may be used on termites to kill workers
(above ground only)	op op	or winged reproductive forms which may be present
	0.4 f l. oz. (12 mL)	in treated channels at the time of treatment. These
	per gallon of water	applications are not a substitute for mechanical
		alteration to control subterranean termites, soil
	(0.015-0.03%AI)	treatment labeled termiticides, or fumigation
		for extensive infestation of drywood termites or
		other wood-infesting insects, but are considered
		supplemental. This product is not recommended as
		sole protection against termites. For active termite
		infestations, get a professional inspection.

Pests	Dilution Rate (Concentration of AI)	SPECIFIC USE DIRECTIONS
1 For cockroaches, the ra	ite for maintenance treatments	For cockroaches, the rate for maintenance treatments is 0.015% and for clean-out treatments is 0.03%. For
control of severe infestations, use 0.06% rate.	tions, use 0.06% rate.	
<sup>2</sup> For outdoor use only and use 0.03% rate.	d use 0.03% rate.	
<sup>3</sup> For control of LIGHT bee	<sup>3</sup> For control of LIGHT beetle infestations, use 0.03% rate.	ai

<sup>5</sup> In all states except California, rates for files may be increased to 0.06% when environmental conditions are

<sup>6</sup> For residual control, use 0.06% rate.
<sup>6</sup> In all states except California, rates 1 severe and/or populations are high.

<sup>6</sup> For clean-out/severe infestations, use 0.06% rate.

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### **Application within Food Handling Establishments**

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

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

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

### Application within Food Serving Areas

For facilities where foods are served, such as dining rooms. Apply as a crack and crevice or spot treatment to selective surfaces such as baseboards, under elements of construction, and into cracks and crevices. Do not treat surfaces likely to be contacted by food. (Do not apply when facility is in operation or foods are exposed.) Food must be covered or removed in area being treated. Do not apply directly to food or allow applications to contaminate food.

NOTE: Application of this product in the Food Areas and/or Food Serving Areas of Food Handling Establishments other than as a spot and/or crack and crevice treatment is not permitted. Limit the use of application equipment such as the Micro-Injector® or Actisol® applicator in food areas to crack and crevice treatment only.

Livestock/Poultry Housing Structures and Pet Kennels
Apply as a general surface (including directed sprays)
and/or crack and crevice treatment. Make interior
and exterior perimeter applications in and around the
livestock, poultry, and pet housing structures. Normal
cleaning of the structure must also be done along
with applications of CYZMIC CS to effectively control
the crawling and flying insect pests listed in the table.

With the exception of cattle and calves that may be present, only apply CYZMIC CS to livestock barns or housing structures when unoccupied by animals. Apply to floors, vertical, and overhead surfaces where crawling or listed flying insect pests are or may be present. Cover feeders, waterers, and feed carts before application to prevent contamination. Do not apply to milk rooms or feed rooms. Pay attention to animal areas including stanchions, pipes, windows and doors, and areas where insect pests hide or congregate. Exterior applications to south facing walls and foundation perimeters can help prevent interior infestations of listed flying and crawling insect pests.

For poultry houses, apply to floor area (birds grown on litter) or to walls, posts, and cage framing (birds grown in cages). Application may also be made into cracks and crevices around insulation. Reapply after each growout or sanitization procedure. 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 1 - 3 ft. up and 2 - 6 ft. out from foundation. Maintaining a year-round treatment program will prevent background populations from reaching problem levels.

### RESTRICTIONS:

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

### Outdoor Surfaces Use

For control of ants, bees, centipedes, cockroaches, crickets, fleas, files, millipedes, mosquitoes, scorpions, sowbugs, stink bugs, pillbugs, spiders, termites\* (above ground only), ticks, wasps, and other listed perimeter arthropod pests.

Apply with either hand or power application equipment as a residual treatment to ornamental plants next to foundations of buildings and to surfaces of buildings, porches, screens, window frames, eaves, patios, garages, refuse dumps, and other similar areas where these insect pests are active. For termites, this type of application is not intended as a substitute for soil treatment labeled termiticides or mechanical alteration to control subternaena termites, or fumigation for extensive infestation of drywood termites or other wood-infesting insects. The purpose of such applications of CYZMIC CS for termites is to kill workers or winged reproductive forms which may be present in treated channels at the time of treatment. Such applications are not a substitute for mechanical alteration, soil treatment or foundation treatment, but are merely a supplement. This product is not recommended as sole protection against termites. For active termite infestations, get a professional inspection.

### **Perimeter Treatments**

Apply a continual band of insecticide around building foundations and around windows, doors, service line entrances, eaves, vents, and other areas to reduce the potential for entry by crawling pests. Before application, remove debris and leaf litter from next to the foundation, cut back vegetation and branches that touch the foundation, and move or rake back rocks, deep mulch, or other potential pest harborage next to the foundation. Apply the band up to 10 ft. wide around the structure (or according to state regulations

governing commercial pest control) and upwards along the foundation to 3 ft. and around windows, doors, and roof overhangs. Apply as a coarse spray to thoroughly and uniformly wet the foundation and/or band area so that the insecticide will reach the soil or thatch level where nests may be active.

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

Rate Table for Perimeter Barrier Applications

Application Rate: Fl. oz. (mL) of CYZMIC CS	Gals. of Water <sup>1</sup>	Area of Coverage (sq. ft.)
0.2 fl. oz. (6mL)	1-5 gals.	800 - 1600 sq. ft
0.4 fl. oz. (12 mL)	1-5 gals.	800 - 1600 sq. ft
0.8 fl. oz. (24 mL)	1-5 gals.	800 - 1600 sq. ft

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

**Examples of Dilutions for Perimeter Barrier Applications** 

Application Volume Gals.	Application Rate fl.oz. of	FI. Dilute in Wate	FI. oz. (mL) of CYZMIC GS to Dilute in Water According to Spray Tank Volumes	CS to y Tank Volumes
of Solution per 1,000 sq. ft.	CYZMIC CS per 1,000 sq. ft.	5 gallons	10 gallons	50 gallons
1 gal. per 1 000 sn ft	0.2 f l. oz. (6mL) 0.4 f l. oz. (12 mL)	1 fl. oz (30 mL) 2 fl. oz (60 mL)	2f1.oz.(60 mL) 4f1.oz.(120 mL)	10 f l. oz. (300 mL) 20 f l. oz. (600 mL)
- ho ood:	0.8 fl. oz. (24 mL)	4 f l. oz. (120 mL)	8 f l. oz. (240 mL)	40 f l. oz. (1200 mL)
non lon C	0.2 f l. oz. (6mL)	0.5 f l. oz. (15 mL)	1 f l. oz. (30 mL)	5 f l. oz. (150 mL)
2 yai. pei	0.4 fl. oz. (12 mL)	1 f l. oz. (30 mL)	2f1.oz.(60 mL)	10fl. oz. (300 mL)
"he non'i	0.8 fl. oz. (24 mL)	2 f l. oz. (60 mL)	4 f I. oz. (120 mL)	20 f l. oz. (600 mL)
5 on nor	0.2 f l. oz. (6mL)	0.2 f l. oz. (6 mL)	0.4 f l. oz. (12 mL)	2fl.oz. (60 mL)
1 000 sq f+	0.4 fl. oz. (12 mL)	0.4 fl. oz. (12 mL)	0.8 fl. oz. (24 mL)	4 f l. oz. (120 mL)
. he oon'ı	0.8 fl. oz. (24 mL)	0.8 fl. oz. (24 mL)	1.6 fl. oz. (48 mL)	8 f I. oz. (240 mL)

Example calculation: to apply the mid-rate of CYZMIC CS at a volume of 5 gal./1,000 sq. ft., mix 4 oz of concentrate in 50 gallons of water. The percent active ingredient in the finished CYZMIC CS dilution can be calculated with the following formula:

mL needed to add times 9.7% active in concentrate, divided by gal. finished dilution times 3,785 mL/gal. = % active in dilution. (Example: 4 cz in 50 gal. is 120 mL times 9.7 equals 1,164, and 50 gal. times 3,785 is 189,250. Dividing 1,164 by 189,250 equals 0.006% active in the tank dilution.)

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

LET TREATED SURFACES DRY BEFORE ALLOWING HUMANS AND PETS TO CONTACT SURFACES.

### RESTRICTIONS:

- . DO NOT use this product with oil.
- DO NOT apply this product in any room being used as living, eating, sleeping, or recovery area by patients, the elderly, or infirm when they are in the room.
- DO NOT apply to institutions (including libraries, sports facilities, etc.,) in the immediate area when occupants are present.
- . DO NOT apply to classrooms when in use.
- DO NOT apply this product to edible growing crops or stored raw agricultural commodities used for food or feed.
- DO NOT allow applications to contact water inhabited by fish, such as in aquariums and ornamental fish ponds that are located in/around structures being treated.

### LAWNS/TUREGRASS AND ORNAMENTALS

CYZMIC CS may be used for applications to maintain indoor or outdoor areas where turf and ornamentals are grown such as residential landscaped areas and non-residential landscapes around institutional, public, commercial and industrial buildings, parks, recreational areas, and athletic fields (Including trees, shrubs, flowers, evergreens, foliage plants and groundcovers). Application rates for turf and ornamentals are lower than structural pest control rates, reflecting that treatment intervals are more frequent.

Applicators must ensure that they are certified in the necessary pesticide certification categories to allow application of CYZMIC CS 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:** Time application to flowering plants during periods when pollinating insects are not present, such as early morning or late evening.

### RESTRICTIONS:

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

### Mixing Instructions

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

### Tank Mixing

CYZMIC CS may be tank mixed with other currently registered pesticides unless expressly prohibited by the product label. A small volume mixing test with the other products is recommended to ensure compatibility. If other chemicals are added to the applicator tank, add CYZMIC CS 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.

### INSECT CONTROL on ORNAMENTAL PLANTS

CYZMIC CS is for use to control the pests listed in the table below in such areas as residential landscaped areas and landscaped areas around institutional, public, commercial and industrial buildings, parks, recreational areas, and athletic fields (including trees, shrubs, flowers, evergreens, foliage plants and groundcovers).

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

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

### RESTRICTIONS:

 DO NOT apply more than 0.36 lbs. of the a.i. (52.4 fl. ozs. of concentrate) per acre per year.

# TANK DILUTION RATES FOR ORNAMENTAL PESTS

	AMOUNT OF CYZMIC CS	APPLICATION INSTRUCTIONS
	1.5 - 5 fl. oz. per	Application to ornamentals should be
	100 gals.	started prior to the establishment of high
		insect pest populations.
	01	Annly at 7-day internals if retreatment is
		apply at 1 day into vals in toucaunting in
_	44 - 148 ml. per	necessaly. Limit more nequent beautient to
_	100 mals	spor rearments.
		Good spray coverage is necessary to
		provide the most effective level of control.
_		Addition of a spreader-sticker at labeled
_		rates may enhance the control of insects on
_		certain species of omamentals having waxy.
_		hard to wet foliage.
		9
_		

	PEST	AMOUNT OF CYZNIC CS	APPLICATION INSTRUCTIONS
	European sawflies	1.5 - 5 fl. oz. per	
	Fall webworms	100 gals.	
	Flea beetles		
	Forest tent caterpillars	10	
	Gypsy moth larvae		
	Japanese beetles (adults)	44 - 148 ml nar	
	June beetles (adults)	100 aals	
	Lace bugs	100 gals.	
34	Leaf-feeding caterpillars ما		
4	Leafhoppers		
	Leafminers (adults)		
	Leafrollers		
	Leaf skeletonizers		
	Middes		
	Mosquitoes		
	Olean der moth larvae		
	Pillbugs		
	Pine sawflies		

	ATTROOPED OF STREET	THE PROPERTY OF THE PROPERTY O
Pine shoot beetles	1.5 - 5 fl. oz. per	For spot treatments use 0.5 fl. oz. CYZMIC CS per
Pinetip moths	100 gals.	1 - 2.5 gals. of water.
Plant bugs		Consult your state university or local Cooperative
Rootweevils	J0	Extension Service office for specific pest control
Sawflies		annication timing in volur area
Scale insects (crawlers)	44 - 148 mL per	dynamical minight and make
Spiders	100 gals.	Scale: Thoroughly cover the plant with CYZMIC
Spittlebugs	•	CS spray, including trunks, stems, twigs, and
Stink bugs		toliage for control of scale insects (crawler stage).
Striped beetles		Baqworm: Apply CYZMIC CS when baqworm
Striped oakworms		larvae begin to hatch. Spray directly on the larvae.
Thrips		Application is the most effective when the larvae
Tip moths		are young.
Tussock moth larvae		
Wasps		

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PEST	AMOUNT OF CYZMIC CS	APPLICATION INSTRUCTIONS
roadmites	3 - 5 fl. oz. per	
Brown softscales	100 gals	
California redscales		
crawlers) Clover mites	JO	
salybugs		
Pineneedlescales (crawlers)	88 -148 mL per	
Spider mites	100 gals.	
Whiteflies		

CYZMIC CS Mixing Chart for Ornamental Insect Pest Control

25 50 Gallons Gallons	0.4 oz. 0.8 oz.	0.8 oz. 1.5 oz.	5 oz. <sup>3</sup> 1.3 oz. 2.5 oz. 5.0 oz.	alent to 3.5 mL per 1,000 sq. ft. (5 oz. per a	,000 sq. ft.	alent to 7 mL per 1,000 sq. ft. (10 oz. per a	,000 sq. ft.	alent to 9.5 mL per 1,000 sq. ft. (14 oz. pe	er 1,000 sq. ft.
Rate of CYZMIC CS	1.5 oz.1	3 0Z. <sup>2</sup>	5 oz. <sup>3</sup>	<sup>1</sup> Equivalent to 3.	per 1,000 sq. ft.	<sup>2</sup> Equivalent to 7	per 1,000 sq. ft.	<sup>3</sup> Equivalent to 9.	gal. per 1,000 sq. ft.
	25 50 Gallons Gallons	25 50 Gallons Gallons 0.4 oz. 0.8 oz.	25 50 Gallons Gallons 0.4 0z. 0.8 0z. 0.8 0z. 1.5 0z.	Rate of CYZMIC CS         25	CYZMIC CS   Gallons   G	CYZMIC CS   CATIONS   CA	CYZMIC CS   CABILORS   CABILORS	Pate of CYZMIC CS   Callons   Call	Callons   Call

# LAWN/TURFGRASS INSECT PEST CONTROL

CYZMIC CS is for use to control the pests listed in the table below around such

- areas as residential, institutional, public, commercial and industrial buildings,
- parks, recreational areas and athletic fields.
- DO NOT apply when turfgrass is waterlogged or when soils are saturated with KEEP CHILDREN AND PETS OFF TREATED AREAS UNTIL SPRAY HAS DRIED FOLLOWING APPLICATION. RESTRICTIONS:

DO NOT apply more than 0.36 lbs. of a.i. (52.4 fl. oz. of concentrate) per

water (i.e. will not accept irrigation).

acre per year.

# RATES FOR LAWN AND TURFGRASS PESTS

PEST	AMOUNT OF CYZMIC CS*	APPLICATION INSTRUCTIONS
Ants (Including Imported Fire Ants) Armynorms Armynorms Chinch Bugs <sup>1</sup> Crickets Cothowns Earwigs Fleas (adult) (adult)	3.4 - 7 mL per 1,000 sq. ft. or or 5-10 ff. oz. per acre	Application to turf should be stanted prior to the establishment of dings misset, pest populations and spelficiart. In dings, and the estaplications as necessary to keep pest populations under control, using higher rates as pest pressure increases.  Apply at 7-ctay intervals, if retreatment is necessary. More frequent treatments should be limited to spot treatments.

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	PEST	AMOUNT OF CYZMIC CS*	APPLICATION INSTRUCTIONS
	Japanese beetles (adult) Millipedes	3.4 - 7 mL per 1,000	For spot treatments, use 0.5 fl. oz. of <b>CYZMIC CS</b> per 1 - 2.5 gals, of water.
	Mites	sq.ft.	Surface Insect Control (armyworm, cutworms, fleas,
	Mosquitoes (aduit) Pilibugs	5 -10 fl. oz.	etc.): Apply CYZMIC CS at labeled rates in 2 - 5 gals. of water per 1,000 sq. ft. The use of a spreader-sticker may
4	Sod webworms	per acre	be useful if high rainfall amounts are forecast, otherwise
0	Sowbugs		the addition of adjuvants is not necessary under normal
	Stink Bugs		conditions for surface insect control in turf. Delay watering
	Ticks		or mowing for 12 - 24 hours to control surface-feeding
	(including species which		insect pests.
	transmit I vme disease)		

PEST	AMOUNT OF CYZMIC CS*	APPLICATION INSTRUCTIONS
Buegrass billings (adult Benk drugss abenius (adult (adult Chiggers Druggers Druggers beschault) (adult hyprotes werents (adult hyprotes werents (adult Mole crickets (kympits and young adults)	7 ml per 1,000 sq. ft or 10 ff. 0z. per acre	7 ml per 1,000 Thatch Inhabiting Insect Control (chinch bugs, billbugs, sq. ff etc., pky) VPTOINE 28 at belief size in 2.1 tigs of vitation of per 1,000 st. ft. The use of a nominior wetting apart, penetrant 10f. cz. per children application with up to 1/2 into 1 water to brove the CTAMC Si in the factor layer if the interesting apart, penetrant of the CTAMC Si in the factor layer if the interesting what application size of the control mode crisicels guids, etc.). Apply CTAMC Si at labeled rates in 4-10 gas of wheter per 1,000 ct. All the sex of a stongly recommended rollwing belt in the ingless water application rates per 1,000 ct. All the layer is strongly recommended following belt rates. Let the ingless water application rates possible with your sprager. Apply VTAMC Si a through the chind rates per 1,000 ct. All the ingless water application rates possible with your sprager. Apply VTAMC Si a throwther the day of VTAMC Si a throwther throwther size that the variety of VTAMC Si a throwther throwther size the throwther size the day of VTAMC Si a throwther throwther size the throwther size throwther size throwther size the day of VTAMC Si a throwther size thr

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PEST	AMOUNT OF CYZMIC CS*	APPLICATION INSTRUCTIONS
		Fire Ant Control: Treat individual mounds with a dental application itself a widering and welling and the 5.6 ft no. 10 CYZMIC Sp ez 5.8 gais or weller inchoughly sask each mound an 3.1 diameter circle around each mound. Cetting apply the mindruce of the standard or share the properties of the treatment. Apply in early morning or tale evening plants of the treatment. Apply in early morning or tale evening plants of the treatment. Apply in early morning or tale evening plants of the treatment. Apply in early morning or tale evening plants of the treatment. Apply in early morning or tale evening plants. Mosquito Control: Apply as a general spray around learndasage plantstage plantstag, huff, and building foundations to common insequence. Apply CYZMIC SS at labeled rates in 2 - 5 gais of water per 1,000 sq. ft.

	PEST	4 0	AMOUNT OF CYZMIC CS*	± %	APPLICATI	APPLICATION INSTRUCTIONS	s
	1 Not for use on chinch bugs in New York state.	ch bugs in N	ew York	state.			
	<ul> <li>Example: To treat the Tested furth pests at the 7 mL per 1,000 sq. ft. rate, determine the gallons of dibtion per 1,000 sq. ft. meedeblo backqualiely come but. At 1s agailon per 1,000 sq. ft. diution, take the 7 mL and divide it by the 5 (gallon) to get 1.4 mL, b be added per gallon. For 850 gallon tank, therefore, this would be 1.4 mL, Xi a-2 mL for 2.5 sz. 1 in 50 saltons of water.</li> </ul>	le listed turf to adequate allon) to get 1 L (or 2,5 oz.	pests at ely cover 1.4 mL to	tthe 7 mL per 1 r the turf. At a b be added per	1,000 sq. ft. rate, d 5 gallon per 1,000 gallon. For a 50 g	etermine the gallo I sq. ft. dilution, ta allon tank, therefo	ns of dilution per ke the 7 mL and we, this would be
43	☼ CYZMIC CS Mixing Chart for Turf Insect Pest Control (CYZMIC CS to add per 100 gal. spray tank)	ding Cha	100 g	Turf Insec	ct Pest Contr	- -	
	Rate of		Appl	ication Rate	Application Rate Per 1,000 Square Feet of Turf	are Feet of Tu	Ŧ
	CYZMIC CS	2 Gallons	_	4 Gallons	6 Gallons	8 Gallons	10 Gallons
	5 oz. per acre	5.7 oz.		2.9 oz.	1.9 oz.	1.4 02.	1.2 oz.
	10 oz. per acre	11.5 oz.		5.7 02.	3.8 oz.	2.9 oz.	2.3 oz.
	Conversion Rate: 1 fluid ounce (fl. oz.) equals 29 milliliters (mL).	1 fluid our	nce (fl.	oz.) equals 2	29 milliters (m.	~	

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. STORAGE AND SPILL PROCEDURES: Sore upright at room temperature. Keep container closed when not in use. Do not store near food or feed. Avoid exposure to extreme temperatures. In case of spillage or leaklages, soak up with an absorbent material such as sand, sawdust, earth, Fuller's earth, etc. Dispose of with chemical waste.

PESTICIDE DISPOSAL: Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility.

CONTAINER DISPOSAL:

For Containers equal to or less 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 and drain for 10 seconds after the flow begins to drip. Fill the container l/s full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store insate 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 or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

#### LIMITATION OF WARRANTY AND LIABILITY

Read the entire direction for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following CONDITIONS, DISCLAIMER OF WARRANTIES, and LIMITATIONS OF LIABILITY.

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

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, Control Solutions, Inc. makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements

made on this label. No agent of Control Solutions, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Control Solutions, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Control Solutions, Inc. election, the replacement of product.

Actisol® is a registered trademark of Roussel-Uclaf.

Micro-Injector® is a registered trademark of Whitmire

Micro-qen Research Laboratories, Inc.

#### NOTES

#### NOTES



#### Controlled Release Insecticide



With CapVantage™ Technology

For use in, on and around buildings and structures for the control of listed pests, including on lawns, ornamental trees and strubs around residential, institutional, public, commercial,

### agricultural and industrial buildings; and parks, recreational areas and athletic fields. ACTIVE INGREDIENTS:

Lambda-cyhalothrin\*:
[1 a(S\*),3 a(Z)]-(±)-cyano-(3-phenoxyphenyl) methyl-3-

\*Synthetic pyrethroid

# KEEP OUT OF REACH OF CHILDREN CAUTION / PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 53883-389 EPA Est. No. 53883-TX-002

NET CONTENTS: 8 FL. OZ



Manufactured by: Control Solutions Inc. 5903 Genoa-Red Bluff, Pasadena, TX 77507 A member of Adama

ADAMA | Consumer and Professional Solutions FPA 051017

# CYZMIC® CS



#### Controlled Release Insecticide



#### With CapVantage™ Technology

For use in, on and around buildings and structures for the control of listed pests, including on lawns, ornamental trees and shrubs around residential, institutional, public, commercial, agricultural and industrial buildings: and parks, recreational areas and athletic fields.

#### ACTIVE INGREDIENTS:

Lambda-cyhalothrin\*:

 $[1 \alpha(S^*), 3 \alpha(Z)] - (\pm) - cyano - (3-phenoxyphenyl) methyl-3-$ 

(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate .....9.7%

\*Synthetic pyrethroid

# KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

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# NET CONTENTS:

1 QUART



Manufactured by:
| Control
| Solutions Inc.

5903 Genoa-Red Bluff, Pasadena, TX 77507 A member of Adama

Consumer and Professional Solutions

EPA 051017

#### FIRST AID

#### IF SWALLOWED:

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

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.

#### PRECAUTIONARY STATEMENTS

#### **Hazards to Humans and Domestic Animals**

**CAUTION:** Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

#### ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish. 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 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. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Apolv this product only as specified on this label.

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

#### PHYSICAL AND CHEMICAL HAZARDS

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

#### PRODUCT INFORMATION

CYZMIC CS is a unique formulation utilizing CapVantage™ Technology which is a proprietary blend of ingredients for use with the active ingredient Lambda-cyhalothrin.

#### DIRECTIONS FOR USE

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

IMPORTANT: Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or on lawns or grounds.

This product is RESTRICTED for use in New York State.

Do not allow children or pets to contact treated surfaces until spray has dried.

Application Restrictions for Residential Outdoor Surface and Space Sprays:

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

- 1. Applications to soil or vegetation around structure:
- 2. Applications to lawns, turf, and other vegetation;
- 3. Applications to building foundations, up to a maximum height of 3 feet above grade;
- Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning or other structure;
- Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width:
- 6. Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in runoff into storm drains, drainage ditches, gutters, or surface waters, in order to control occasional invaders or aggregating pests.

Do not water the treated area to the point of runoff.

Do not make applications during rain.

Do not apply directly to sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur, except as directed by this label.

#### PERIMETER PEST CONTROL

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

Nonfood/nonfeed areas of food/feed handling establishments include garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling).

For indoor applications, **CYZMIC CS** can be reapplied at 21-day intervals if necessary.

#### Mixing Instructions

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

#### Tank Mixing

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

CYZMIC CS may be tank mixed with an Insect Growth Regulator (IGR). Follow all restrictions and precautions which appear on the labels of these products.

#### Foam Applications

CYZMIC CS may be converted to a foam and the foam used to treat structural voids to control or prevent pests including ants, bees, termites (above ground only), wasps, or other listed arthropods harboring in walls, under slabs, or in other void areas.

#### RATES FOR PESTS (HAND APPLICATION EQUIPMENT)

Pests	Dilution Rate (Concentration of AI)	SPECIFIC USE DIRECTIONS
Ants Bedbugs(adult) Bees Boxeloter Bugs Boxeloter Bugs Boxeloter Bugs Carpet Beetles Carpet Beetles Contipedes Clayert Beetles Cover Mites Cockroaches¹ Conflused Flour Beetles Crofficet Flour Beetles Earwigs Friebrats Friebrats Friebrats Friesa² Flies Mosquitides Mosquitides Mosquitides Rote Weevils Saw-toothed Grain Beetles Silverfish Sow bugs Spiders Silverfish Sow bugs Spiders Silver Bugs Tilcks Wassps	0.2 f1. 0z. (6 mL) to 0.4 f1. 0z. (12 mL) per gallon of water (0.015-0.03% Al)	Ants: Apply to any trails around doors and windows and other places where anis mp be found. Locale and treat nests. Where arets are trailing inside, apply as a residual surface treatment to active areas such as baseboards, comers, around pipes, in and behind cabinets, behind and under refrigerators, sinks, furnaces and stoves, cracks and crevices. When combining bails and residual surface insecticides, apply surface insecticides in cracks and crevices, along baseboards, and infested surfaces and cusive barner treatments. Use bails in other areas that are untreated by residual insecticides; also see Outdoor Surfaces Use.  Bedbugs: Clean floors and surfaces by vacouming revices, baseboards, loose plaster, behind bed frames and headboards, beneath beds and furniture, and to bedsprings and bed frames. Do not apply to furniture surfaces or mattresses where people will be laying or sitting, Infested bedding should not be treated, but should be removed, placed in sealed plastic bags, and taken for laundering and drying at high temperatures.

Pests	Dilution Rate (Concentration of AI)	SPECIFIC USE DIRECTIONS
Cockroaches¹ Crickets <sup>6</sup> Flies <sup>5</sup> Litter Beetles <sup>8</sup> (adults/ immature stages such as Darkling, Hide, and Carrion) Mosquitoes <sup>4</sup>	0.8 f l. oz. (24 mL) per gallon of water (0.06% AI)	Cockroaches, Crickets, Earwigs, Firebrats, Silverfish, Spiders and Stink Bugs. Apply as a coarse, low pressure spary or areas where these peets hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, cabinets, behind and under refrigerators, sinks, furnaces and stores, the underside of shelves, drawers and similar areas. Pay particular attention to cracks and crevices; also see <b>Outdoor Surfaces Use</b> .
Pillbugs Scorpions Spiders <sup>©</sup> Spider Mites (Two- spotted, Spruce) Stink Bugs <sup>©</sup> Ticks <sup>©</sup>		Bees, Flies, Mosquitoes, and Wasps: Apply directly to walls, ceilings, window screens, and other resting areas as a residual surface treatment. May be used inside residential buildings as well as in and around carports, garages, and storage sheds; also see Outdoor Surfaces Use. Use caution when treating nests of stinging insects as CYZMIC CS does not provide instant knockdown. Protective equipment for the applicator may be required. Treat bee, wasp and homet nests late in the day when most insects will be present. Allow 2-3 days for the colonyt to lead negreat after 21 days, if necessary.
		Yards or other frequented areas enclosed by landscaping can benefit from the creation of a mosquito barrier to reduce invading mosquitose by the terahemat of perimeter vegetation. Apply CYZMIC CS at specified rates in 2-5 gals. Of water per 1,000 sq. ft. Carpenter Beesc. Apply cares spary to throughly wet wood surfaces where bees have been previously active or to provide protection against further damage. Apply early in the spring to prevent bees from invading wood. When bees have infested wood, surface applications can help control embedded larvae and bees that emerge from the wood.

Pests	Dilution Rate (Concentration of AI)	SPECIFIC USE DIRECTIONS
		Pantry Pests (i.e., Carpet beetle, Cigarette beetle, Confused flour beetle, Lesser grain borer, Red flour beetle, lice weevil, and Saw-hothed grain beetle): Apply to cupboards, shelving, and storage areas. Remove all utensils, uncovered flootsfuffs (or any having original package opened), and shelf gaper before making application. Allow treated surfaces to dry and cover shelves with clean paper before replacing any utensils, foodstuff, or other items. Destroy any foodsfuff accidentally contaminated with treatment solution.
		Boxelder Bugs, Centipedes, Millipedes, Pillbugs, and Sow bugs. Apply around doors and windows and other places where these pests may be found or where they may enter premises. Treat baseboards, storage areas, and other locations. Apply treatments to prevent infestation as described below; also see Outdoor Surfaces Use.
		Fleas and Ticks: To control nuisance fleas and ticks (e.g. dog ticks) apply to kennels yards, runs, and other areas where pets may frequent. To control ticks, apply using a coarse fan spray to vegetation brust, branches, rock walls, and other areas near habitation where ticks may harbor or frequent. Treat entire area rather than making spot treatments, and retreat as necessary to maintain control.
		Do not apply to pasture or cropland, and do not allow animals and people access to treated areas until the depost has dried. Applications can begin in the spring and can continue until first to control both larvae and adult ticks; also see Outdoor Surfaces Use.

Pests	Dilution Rate (Concentration of AI)	SPECIFIC USE DIRECTIONS
		Cluster Files. Apply in late summer or early f all before files are observed alighting on surfaces. Apply throughly on stiding, under eaves, and around windows and doors, paying particular attention to south-facing surfaces, but do not allow runoff to occur. Heavy precipitation prior to frost may require retreatments to maintain protection. In winter and spring when flies become active and are emerging, interior crack and crevice and viol treatments can help reduce the infestation, along with ULV or general surface application in infested attics or unoccupied offsts.
		Litter Beetles (Darkling, Hide, and Carrion Beetles) and Files In Animal Housing (Such As Poultry Houses): To control adult little brells: apply CYZMIC SC to walls and floors at cleanout, before reintroduction of animals. This will suppress beetles that escaped earlier treatment and will help delay orset of future infestations. Pay attention to areas where beetles frequently occur, such as walls, supports, cages, stalls, and around feeders. To help control files, apply a directed application to horizontal surfaces and overhead areas and allow to dry before reintroduction of animals, asto, see Livestock/ Poultry Housing Structures and Pet Kennels.

Pests	Dilution Rate (Concentration of AI)	SPECIFIC USE DIRECTIONS
Termites (above ground only)	0.2 f1. oz. (6mL) to 0.4 f1. oz. (12 mL) per gallon of water (0.015-0.03% Al)	CYZMIC CS may be used on termites to kill workers or winged reproductive forms which may be present in treated channels at the time of treatment. These applications are not a substitute for mechanical alteration to control subternacean termities, soil treatment labeled termiticides, or fumigation for extensive infestation of drywood termites or other wood-infesting insects, but are considered supplemental. This product is not recommended as sole protection against termites. For active termite infestations, get a proflessional inspection.

<sup>&</sup>lt;sup>1</sup>For cockroaches, the rate for maintenance treatments is 0.015% and for clean-out treatments is 0.03%. For control of severe infestations, use 0.06% rate.

#### Application within Food Handling Establishments

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

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

<sup>&</sup>lt;sup>2</sup> For outdoor use only and use 0.03% rate.

<sup>&</sup>lt;sup>3</sup> For control of LIGHT beetle infestations, use 0.03% rate.

<sup>4</sup> For residual control, use 0.06% rate.

<sup>5</sup> In all states except California, rates for flies may be increased to 0.06% when environmental conditions are severe and/or populations are high.
8 For clean-out/severe infestations, use 0.06% rate.

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

#### Application within Food Serving Areas

For facilities where foods are served, such as dining rooms. Apply as a crack and crevice or spot treatment to selective surfaces such as baseboards, under elements of construction, and into cracks and crevices. Do not treat surfaces likely to be contacted by food. (Do not apply when facility is in operation or foods are exposed.) Food must be covered or removed in area being treated. Do not apply directly to food or allow applications to contaminate food.

NOTE: Application of this product in the Food Areas and/or Food Serving Areas of Food Handling Establishments other than as a spot and/or crack and crevice treatment is not permitted. Limit the use of application equipment such as the Micro-Injector® or Actisol® applicator in food areas to crack and crevice treatment only.

#### Livestock/Poultry Housing Structures and Pet Kennels

Apply as a general surface (including directed sprays) and/or crack and crevice treatment. Make interior and exterior perimeter applications in and around the livestock, poultry, and pet housing structures. Normal cleaning of the structure must also be done along with applications of CYZMIC CS to effectively control the crawling and flying insect pests listed in the table.

With the exception of cattle and calves that may be present, only apply CYZMIC CS to livestock barns or housing structures when unoccupied by animals. Apply to floors, vertical, and overhead surfaces where crawling or listed flying insect pests are or may be present. Cover feeders, waterers, and feed carts before application to prevent contamination. Do not apply to milk rooms or feed rooms. Pay attention to animal areas including stanchions, pipes, windows and doors, and areas where insect pests hide or congregate. Exterior applications to south facing walls and foundation perimeters can help prevent interior infestations of listed flying and crawling insect pests. For poultry houses, apply to floor area (birds grown on litter) or to walls, posts, and cage framing (birds grown in cages). Application may also be made into cracks and crevices around insulation. Reapply after each growout or sanitization procedure. 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 1 - 3 ft. up and 2 - 6 ft. out from foundation. Maintaining a year-round treatment program will prevent background populations from reaching problem levels.

#### RESTRICTIONS:

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

#### Outdoor Surfaces Use

For control of ants, bees, centipedes, cockroaches, crickets, fleas, flies, millipedes, mosquitoes, scorpions, sowbugs, stink bugs, pillbugs, spiders, termites\* (above ground only), ticks, wasps, and other listed perimeter arthropod pests.

Apply with either hand or power application equipment as a residual treatment to ornamental plants next to foundations of buildings and to surfaces of buildings, porches, screens, window frames, eaves, patios, garages, refuse dumps, and other similar areas where these insect pests are active.

For termites, this type of application is not intended as a substitute for soil treatment labeled termiticides or mechanical alteration to control subterranean termites, or furnigation for extensive infestation of drywood termites or other wood-infesting insects. The purpose of such applications of CYZMIC CS for termites is to kill workers or winged reproductive forms which may be present in treated channels at the time of treatment. Such applications are not a substitute for mechanical alteration, soil treatment or foundation treatment, but are merely a supplement. This product is not recommended as sole protection against termites. For active termite infestations, get a professional inspection.

#### Perimeter Treatments

Apply a continual band of insecticide around building foundations and around windows, doors, service line entrances, eaves, vents, and other areas to reduce the potential for entry by crawling pests. Before application, remove debris and leaf litter from next to the foundation, cut back vegetation and branches that touch the foundation, and move or rake back rocks, deep mulch, or other potential pest harborage next to the foundation. Apply the band up to 10 ft. wide around the structure (or according to state regulations governing commercial pest control) and upwards along the foundation to 3 ft. and around windows, doors, and roof overhangs. Apply as a coarse spray to thoroughly and uniformly wet the foundation and/or band area so that the insecticide will reach the soil or thatch level where pests may be active.

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

Rate Table for Perimeter Barrier Applications

Application Rate: Fl. oz. (mL) of CYZMIC CS	Gals. of Water <sup>1</sup>	Area of Coverage (sq. ft.)
0.2 fl. oz. (6mL)	1-5 gals.	800 - 1600 sq. ft
0.4 fl. oz. (12 mL)	1-5 gals.	800 - 1600 sq. ft
0.8 fl. oz. (24 mL)	1-5 gals.	800 - 1600 sg. ft

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

**Examples of Dilutions for Perimeter Barrier Applications** 

Application Volume Gals. of Solution	Application Rate fl.oz. of CYZMIC CS	Fl Dilute in Wat	FI. oz. (mL) of CYZMIC CS to Dilute in Water According to Spray Tank Volumes	S to Tank Volumes
per 1,000 sq. ft.	per 1,000 sq. ft.	5 gallons	10 gallons	50 gallons
200	0.2 f l. oz. (6mL)	1 f l. oz. (30 mL)	2 f l. oz. (60 mL)	10 f l. oz. (300 mL)
1 gar. per	0.4 f l. oz. (12 mL)	2 f I. oz. (60 mL)	4 fl. oz. (120 mL)	20 f I. oz. (600 mL)
1,000 sq. 11.	0.8 f l. oz. (24 mL)	4 fl. oz. (120 mL)	8 f I. oz. (240 mL)	40 f l. oz. (1200 mL)
200	0.2 f l. oz. (6mL)	0.5 f l. oz. (15 mL)	1 f l. oz. (30 mL)	5 f I. oz. (150 mL)
2 gal. per	0.4 f l. oz. (12 mL)	1 f l. oz. (30 mL)	2 f l. oz. (60 mL)	10 f I. oz. (300 mL)
1,000 84. 11.	0.8 f l. oz. (24 mL)	2 f l. oz. (60 mL)	4 fl. oz. (120 mL)	20 f I. oz. (600 mL)
F gal nor	0.2 f l. oz. (6mL)	0.2 f l. oz. (6 mL)	0.4 fl. oz. (12 mL)	2 f I. oz. (60 mL)

concentrate in 50 gallons of water. The percent active ingredient in the finished CYZMIC CS dilution can be **Example calculation:** to apply the mid-rate of CYZMIC CS at a volume of 5 gal./1,000 sq. ft., mix 4 oz of 8 fl. oz. (240 mL) calculated with the following formula:

4 fl. oz. (120 mL)

1.6 fl. oz. (48 mL) 0.8 fl. oz. (24 mL)

0.8 f l. oz. (24 mL)

0.8 fl. oz. (24 mL) 0.4 fl. oz. (12 mL)

,000 sq. ft. 5 gal. per

0.4 f l. oz. (12 mL)

% active in dilution. (Example: 4 oz. in 50 gal. is 120 mL times 9.7 equals 1,164, and 50 gal. times 3,785 is mL needed to add times 9.7% active in concentrate, divided by gal. finished dilution times 3,785 mL/gal. = 189,250. Dividing 1,164 by 189,250 equals 0.006% active in the tank dilution.) NOTE: Do not use water based sprays of CYZMIC CS in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard. Thoroughly wash out sprayer and screen with water and detergent before using CYZMIC CS. CYZMIC CS has not stained or caused damage to painted or varnished surfaces, plastics, fabrics, or other surfaces where water applied alone causes no damage. However, treat a small area and allow to dry, to determine whether staining will occur.

## LET TREATED SURFACES DRY BEFORE ALLOWING HUMANS AND PETS TO CONTACT SURFACES.

#### RESTRICTIONS:

- . DO NOT use this product with oil.
- DO NOT apply this product in any room being used as living, eating, sleeping, or recovery area by patients, the elderly, or infirm when they are in the room.
- DO NOT apply to institutions (including libraries, sports facilities, etc.,) in the immediate area when occupants are present.
- DO NOT apply to classrooms when in use.
- DO NOT apply this product to edible growing crops or stored raw agricultural commodities used for food or feed.
- DO NOT allow applications to contact water inhabited by fish, such as in aquariums and ornamental fish ponds that are located in/around structures being treated.

#### LAWNS/TUREGRASS AND ORNAMENTALS

CYZMIC CS may be used for applications to maintain indoor or outdoor areas where turf and ornamentals are grown such as residential landscaped areas and non-residential landscapes around institutional, public, commercial and industrial buildings, parks, recreational areas, and athletic fields (Including trees, shrubs, flowers, evergreens, foliage plants and groundcovers). Application rates for turf and ornamentals are lower than structural pest control rates, reflecting that treatment intervals are more frequent.

Applicators must ensure that they are certified in the necessary pesticide certification categories to allow application of CYZMIC CS 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:** Time application to flowering plants during periods when pollinating insects are not present, such as early morning or late evening.

#### RESTRICTIONS:

- DO NOT apply this product through any type of irrigation system.
- . DO NOT apply this product to edible crops.
- DO NOT apply this product by aerial application.
- Use of this pesticide adjacent to water may affect aquatic organisms.
   To protect these organisms, D0 NOT apply this pesticide within 25 ft. of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds.
- DO NOT make outdoor broadcast applications to turf and ornamentals when wind speed is 15 mph or greater.
- In the state of New York, DO NOT apply within 100 ft. of coastal marshes
  or streams that drain into coastal marshes.

#### Mixing Instructions

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

#### Tank Mixing

CYZMIC CS may be tank mixed with other currently registered pesticides unless expressly prohibited by the product label. A small volume mixing test with the other products is recommended to ensure compatibility. If other chemicals are added to the applicator tank, add CYZMIC CS 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.

#### INSECT CONTROL on ORNAMENTAL PLANTS

CYZMIC CS is for use to control the pests listed in the table below in such areas as residential landscaped areas and landscaped areas around institutional, public, commercial and industrial buildings, parks, recreational areas, and athletic fields (including trees, shrubs, flowers, evergreens, foliage plants and groundcovers).

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

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

#### RESTRICTIONS:

 DO NOT apply more than 0.36 lbs. of the a.i. (52.4 fl. ozs. of concentrate) per acre per year.

#### TANK DILUTION RATES FOR ORNAMENTAL PESTS

PEST	AMOUNT OF CYZMIC CS	APPLICATION INSTRUCTIONS
Ants (Including Imported fire Ants) Armyworms Arzalea cateprillars Aphids Bagworms Back vine weevils (adult) Boxelder bugs Budworms California adeworms Cankervorms Cankervorms	AMOUNT OF CYZMIC CS  1.5 - 5 fl. oz. per 100 gals.  or  44 - 148 mL per 100 gals.	Application to ornamentals should be started prior to the establishment of high insect pest populations. Apply at 7-day intervals if retreatment is necessary. Limit more frequent treatment to spot treatments.  Good spray coverage is necessary to provide the most effective level of control. Addition of a spreader-sticker at labeled rates may enhance the control of insects on certain species
Leaf-feeding caterpillars Leafnoppers Leafminers (adults) Leaf rollers Leaf skeletonizers Midges Mosquitoes Oleander moth larvae Pillbugs Pine sawflies		

PEST	AMOUNT OF CYZMIC CS	APPLICATION INSTRUCTIONS
Pine shoot beetles Pinetip moths	1.5 - 5 fl. oz. per 100 gals.	For spot treatments use 0.5 fl. oz. CYZMIC CS per 1 - 2.5 gals. of water.
Plant bugs Root weerils Sawflies Scale insects (crawlers) Spiders Spittlebugs Stink bugs Striped beetles Striped oakworms Thrips Tussock moth larvae Wasps	Noct weevils Sociale insects (crawlers) piders Sink bugs Sink bugs Sink bugs Sink obugs	Consult your state university or local Cooperative Extension Service office for specific pest control application timing in your area.  Scale: Thoroughly cover the plant with CYZMIC CS spray, including trunks, stems, twigs, and foliage for control of scale insects (crawler stage).  Bagworm: Apply CYZMIC CS when bagworm larnae begin to hatch. Spray directly on the larvae. Application is the most effective when the larvae are young.
Broadmites Brown softscales California redscales (crawlers) Clover mites Mealybugs	3 - 5 fl. oz. per 100 gals or	
Pineneedlescales (crawlers) Spider mites Whiteflies	88 -148 mL per 100 gals.	

# CYZMIC CS Mixing Chart for Ornamental Insect Pest Control (CYZMIC CS to add per spray tank)

Rate of CYZMIC CS	25 Gallons	50 Gallons	100 Gallons	200 Gallons	300 Gallons
1.5 oz.1	0.4 oz.	0.8 oz.	1.5 oz.	3.0 oz.	4.5 oz.
3 oz.2	0.8 oz.	1.5 oz.	3.0 oz.	6.0 oz.	9.0 oz.
5 oz.3	1.3 oz.	2.5 oz.	5.0 oz.	10.0 oz.	15.0 oz.

<sup>1</sup> Equivalent to 3.5 mL per 1,000 sq. ft. (5 oz. per acre) when applied at 8 gal, per 1,000 sq. ft.

#### I AWN/TUREGRASS INSECT PEST CONTROL

**CYZMIC CS** is for use to control the pests listed in the table below around such areas as residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields.

#### RESTRICTIONS:

- KEEP CHILDREN AND PETS OFF TREATED AREAS UNTIL SPRAY HAS DRIED FOLLOWING APPLICATION.
- DO NOT apply when turfgrass is waterlogged or when soils are saturated with water (i.e. will not accept irrigation).
- DO NOT apply more than 0.36 lbs. of a.i. (52.4 fl. oz. of concentrate) per acre per year.

<sup>&</sup>lt;sup>2</sup> Equivalent to 7 mL per 1,000 sq. ft. (10 oz. per acre) when applied at 8 gal. per 1,000 sq. ft.

<sup>&</sup>lt;sup>3</sup> Equivalent to 9.5 mL per 1,000 sq. ft. (14 oz. per acre) when applied at 8 gal. per 1,000 sq. ft.

RATES FOR LAWN AND TURFGRASS PESTS

PEST	AMOUNT OF CYZMIC CS*	APPLICATION INSTRUCTIONS
Ants (Including Imported Fire Ants) Armyworms Centipedes Chinch Bugs' Crickets Cutworms Earwigs Fleas (adult) Grasshoppers Japanese beetles (adult)	3.4 - 7 mL per 1,000 sq. ft. or 5 -10 fl. oz. per acre	Application to turf should be started prior to the establishment of high insect pest populations and significant turf damage. Make reapplications as an ecssary to keep pest populations under control, using higher rates as pest pressure increases.  Apply at 7-day intervals if retreatment is necessary. More frequent treatments should be limited to spot treatments.  For spot treatments, use 0.5 fl. oz. of CYZMIC CS per 1 - 2.5 gals. of water.
Millipedes Mites Mosquitoes (adult) Pillibugs Sod webworms Sow bugs Sünk Bugs Ticks (including species which transmit Lyme disease)		Surface Insect Control (armyworm, cutworms, fleas, etc.): Apply OYZMIC CS at labeled rates in 2 - 5 gals. of water per 1,000 s.g. ft. The use of a spreader-sticker may be useful if high rainfall amounts are forecast, otherwise the addition of adjuvants is not necessary under normal conditions for surface insect control in turf. Delay watering or mowing for 12 - 24 hours to control surface-feeding insect pests.

	CYZMIC CS*	
Bluegrass billbugs (adult) Black turfgrass ataenius (adult) Chiggers Fleas (adult) Grubs (suppression) Hyperodes weevils (adult) Mole crickets	7 ml per 1,000 sq. ft or 10 fl. oz. per acre	Thatch Inhabiting Insect Control (chinch bugs, billbugs, etc.); Apply CTZMIC CS at labeled rates in 2 - 10 gals. of water per 1,000 s.; If. The use of a nonionic wetting agent, penetrant or similar adjuvant is recommended at blact lates. Lightly irrigate after application with up to 1/2 inch of water to move the CYZMIC CS into the thatch leyer. If irrigation is not available, then use high water application rates.
(nymphs and young adults)		Subsurface Insect Control (mole crickets, grubs, etc.); Apply CYZMIC CS at labeled rates in 4 - 10 gals, of water per 1,000 sq. ft The use of a noninoin wetting agent, penetrant or similar adjuvant is strongly recommended following label rates. Use the highest water application rates possible with your sprayer, Apply CYZMIC CS to furf wet with dew, rain or irrigation. Water-in immediately after application with ¼ - ½ inch of water.
		Fire Ant Control: Treat individual mounds with a dirench application using a vatering can. Use 0.5 ft. oz. of VZMIC SS per 2.5 gals of water. Thoroughly sock each mound and a 3 ft. diameter circle around each mound. Gently apply the mixture to avoid disturbing the mound. Disturbing the mound may cause the ants to migrate and reduce the effectiveness of the treatment. Apply in early morning or late evening hours. You may make applications on a monthly basis to maintain protection of treated areas.

APPLICATION INSTRUCTIONS

Mosquito Control: Apply as a general spray around landscape plantings, turf, and building foundations to control mosquitoes. Apply CYZMIC CS at labeled rates in 2 - 5 gals, of water per 1,000 sq. ft.

PEST

AMOUNT OF

CY7MIC CS\*

<sup>1</sup> Not for use on chinch bugs in New York state.

<sup>\*</sup> Example: To treat the listed turf pests at the 7 mL per 1,000 sq. ft. rate, determine the gallons of dilution per 1,000 sq. ft. needed to adequately cover the turf. At a 5 gallon per 1,000 sq. ft. dilution, take the 7 mL and divide it by the 5 (gallon) to get 1.4 mL to be added per gallon. For a50 gallon tank, therefore. this would be 1.4 mL X 50 = 70 mL for 2.5 cq. 1 in 50 callons of water.

#### CYZMIC CS Mixing Chart for Turf Insect Pest Control

(CYZMIC CS to add per 100 gal. spray tank)

Rate of Application Rate Per 1,000 Square Feet of Turf					
CYZMIC CS	2 Gallons	4 Gallons	6 Gallons	8 Gallons	10 Gallons
5 oz. per acre 10 oz. per acre	5.7 oz. 11.5 oz.	2.9 oz. 5.7 oz.	1.9 oz. 3.8 oz.	1.4 oz. 2.9 oz.	1.2 oz. 2.3 oz.
Conversion Rate: 1 fluid ounce (fl. oz.) equals 29 milliliters (ml.)					

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE AND SPILL PROCEDURES: Store upright at room temperature. Keep container closed when not in use. Do not store near food or feed. 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.

PESTICIDE DISPOSAL: Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility.

#### CONTAINER DISPOSAL:

For Containers equal to or less 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 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 or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

#### LIMITATION OF WARRANTY AND LIABILITY

Read the entire direction for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following CONDITIONS, DISCLAIMER OF WARRANTIES, and IMITATIONS OF LIABILITY.

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

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, Control Solutions, inc. makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Control Solutions, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Control Solutions, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Control Solutions, Inc. election, the replacement of product.

Actisol® is a registered trademark of Roussel-Uclaf.

Micro-Injector® is a registered trademark of Whitmire Micro-gen Research Laboratories. Inc.





### Controlled Release Insecticide



### With CapVantage<sup>™</sup> Technology

For use in, on and around buildings and structures for the control of listed pests, including on lawns, ornamental trees and shrubs around residential, institutional, public, commercial, agricultural and industrial buildings: and parks, recreational areas and athletic fields.

#### ACTIVE INGREDIENTS

ACTIVE INGREDIENTS:	
Lambda-cyhalothrin*:	
$[1 \alpha(S^*), 3 \alpha(Z)]$ -(±)-cyano-(3-phenoxyphenyl) methyl-3-	
(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate.	9.79
OTHER INGREDIENTS:	90.39
TOTAL:	. 100.09
*Completed in a complete and	

# KEEP OUT OF REACH OF CHILDREN CAUTION / PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 53883-389

EPA Est. No. 53883-TX-002

**NET CONTENTS:** 1 QUART



Manufactured by:
| Control

Solutions Inc.
5903 Genoa-Red Bluff, Pasadena, TX 77507
A member of Adama
Consumer and Professional Solutions

EPA 051017





With CapVantage™ Technology

For use in, on and around buildings and structures for the control of listed pests, including on lawns, ornamental trees and shrubs around residential. institutional, public, commercial, agricultural and industrial buildings; and parks, recreational areas and athletic fields.

### ACTIVE INGREDIENTS

Lambda-cvhalothrin\*: [1  $\alpha(S^*)$ .3  $\alpha(Z)$ ]-(±)-cvano-(3-phenoxyphenyl) methyl-3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate... OTHER INGREDIENTS:.. .90.3%

\*Synthetic pyrethroid

# KEEP OUT OF REACH OF CHILDREN AUTION/PRECAUCIÓN usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detall (If you do not understand the label, find someone to explain it to you in detail.)

(See additional precautionary statements and directions for use in booklet.) EPA Reg. No. 53883-389 EPA Est. No. 084575-AUT-001 250 Gallons (946.35 Liters)

Manufactured by: Control Solutions Inc. 5903 Genoa-Red Bluff, Pasadena, TX 77507 A member of Adama Consumer and Professional Solutions

FIRST AID

### If swallowed:

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

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® Internationa for emergency medical treatment at (866) 897-8050.

### PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

### ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish. 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 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. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Apply this product only as specified on this label.

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

### PHYSICAL AND CHEMICAL HAZARDS

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

### PRODUCT INFORMATION

CYZMIC CS is a unique formulation utilizing CapVantage<sup>IM</sup> Technology which is a proprietary blend of ingredients for use with the active ingredient Lambda-cyhalothrin.

DIRECTIONS FOR USE

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

IMPORTANT: Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or on lawns or grounds

intended for aestreed purposes or climate mounteation and being grown in it.

This product is RESTRICTED for use in New York State.

Do not allow children or pets to contact treated surfaces until spray has dried

Application Restrictions for Residential Outdoor Surface and Space Sprays:

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

1. Applications to soil or vegetation around structure;

- 2. Applications to lawns, turf, and other vegetation:
- Applications to building foundations, up to a maximum height of 3 feet above grade;
   Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning or other structure;
- Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width;
   Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in runoff into storm drains, drainage ditches, gutters, or surface waters, in order to control occasional invaders or aggregating pests.

Do not water the treated area to the point of runoff.

Do not make applications during rain.

Do not apply directly to sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur, except as directed by this label.

## PERIMETER PEST CONTROL

CYZMIC CS is for use as a general surface (nonfood/nonfeed areas), crack and crevice, or spot treatment in, on, and around buildings and structures and their immediate surroundings, and on modes of transport. Areas of use include, industrial buildings, houses, patios, porches, closels, furniture, apartment buildings, mobile homes, laboratories, buses, greenhouses (non-commercial), stores, factories, warehouses, wineries, vessels, railcars, trucks, trailers, arcraft (cargo and other non-cabin areas only), schools, nursing homes, hospitals, mauseleums, restaurants, hotels, correctional facilities, livestock/poultry housing, pet kennels, food grararies, food grain mills and food manufacturing, processing, and servicing establishments.

Nonfood/nonfeed areas of food/feed handling establishments include garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms,

machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling). For indoor applications, **CYZMIC CS** can be reapplied at 21-day intervals if necessary.

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

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

CYZMIC CS may be tank mixed with an Insect Growth Regulator (IGR). Follow all restrictions and precautions which appear on the labels of these products.

Foam Applications
CYZMIC CS may be converted to a foam and the foam used to treat structural voids to control or prevent pests including ants, bees, termites (above ground only),

asps, or other listed arthropods harboring in walls, under slabs, or in other void areas

## RATES FOR PESTS (HAND APPLICATION EQUIPMENT)

Pests	Dilution Rate (Concentration of AI)	SPECIFIC USE DIRECTIONS
Ants Bedbugs(adult) Bees Boxelder Bugs Carpenter Bees Carpet Beetles Certipedes Cligarette Beetles Clover Mittes	0.2 f l. oz. (6 ml.) to 0.4 f l. oz. (12 ml.) per gallon of water (0.015-0.03% Al)	Ants. Apply to any trails around doors and windows and other places where ants may be found. Locate and treat nests. Where ants are trailing inside, apply as a residual surface treatment to active areas such as baseboards, comers, around pipes, in and behind cabinets, behind and under refrigerators, sinks, furnaces and stoves, cracks and crevices. When combining balls and residual surface insecticides, apply surface insecticides, apply surface, sincecticides, apply surface, sincecticides, apply surface insecticides, apply surface, surfaces with a surface insecticides, along baseboards, and intested surfaces and outside barrier treatments. Use baits in other areas that are untreated by residual insecticides, also see <b>Outdoor Surfaces Use</b> .  Bedougs: Clean floors and surfaces by vacuuming. Apply as a coarse, low-pressure spray to harborage areas including crevices, baseboards, loose plaster, behind bed frames and headboards, beneath beds and furniture, and to bestprings and bed frames.  Do not apply to furniture surfaces or mattresses where people will be laying or stitting, Intested bedding should not be treated, but should be removed, placed in sealed plastic bags, and taken for laundering and drying at high temperatures.

Pests	Dilution Rate (Concentration of AI)	SPECIFIC USE DIRECTIONS
Cockroaches¹ Confused Flour Beetles Crickets Earwigs Firebrats Fleas² Flies Lesser Grain Borers Millippedes Mosquitoes Red Flour Beetles Rice Weevils Saw-toothed Grain Beetles Sliverfish Sow bugs Spiders Stink Bugs Ticks		Cockroaches, Crickets, Earwigs, Firebrats, Silverfish, Spiders and Stink Bugs: Apply as a coarse, low pressure spray to areas where these pests hide, such as baseboards, corners, storage areas, closest, acround water pipes, doors and windows, attics and eavers, calheis, behind and under refrigerators, sinks, furnaces and stoves, the underside of shelves, drawers and similar areas. Pay particular attention to roachs and crevices; also see Outhordo Surfaces Use.  Bees, Flies, Mosquitoes, and Wasps: Apply directly to walls, ceilings, window screens, and other resting areas as a residual surface treatment. May be used inside residential buildings as well as in ad around carports, garages, and storage sheds, also see Outhordo Surfaces Use. Use caution when treating nests of stinging insects as CYZNIIC CS does not provide instant knockdown. Protective equipment for the applicator may be required. Treat bee, wasp and homent nests late in the day when most insects will be present. Allow 2-3 days for the colony to die and repeat after 21 days, if necessary.
Cockroaches¹ Crickets² Flies⁴ Litter Beetles³ (adults/ immature stages such as Darkling, Hide, and Carrion) Mosquitoes⁴ Pillbugs Scorpions Spiders⁴ Spider Mites (Two-spotted, Spruce) Stink Bugs³ Ticks⁴	0.8 f l. oz. (24 m.), per gallon of water (0.06% Al)	Yards or other frequented areas enclosed by landscaping can benefit from the creation of a mosquito barrier to reduce invading mosquitoes by the treatment of perimeter vegetation. Apply CYZMIC Sct stepectified rates in 2-5 gals. O'water per 1,000 g. 11 Carpenter Beest. Apply coarse spray to thoroughly wet wood surfaces where bees have been previously active or to provide protection against further dates in 2-5 gals. O'water per 1,000 g. 11 Carpenter Beest. Apply coarse spray to thoroughly wet wood surfaces applications can help control embedded larvae and bees that emerge from the wood.  Partry Pests (i.e., Carpet beetle, Digarette beetle, Confused flour beetle, Lesser grain borrer, Red flour beetle, Rice weevil, and Saw-toothed grain beetle; Apply to cupboards, shelving, and strage areas. Remove all utensits, uncovered floostkins for any having original package opened), and shelf paper before replacing any utensits, footsouth, or other tenss. Destroy any footswith accidentally cornaminated with treatment solution.  Boxelder Bugs, Centipedes, Millipedes, Pillibugs, and Sow bugs. Apply around doors and windows and other places where these peets may be found or where they may enter premises. Treat baseboards, storage areas, and other locations. Apply treatments to prevent infestation as described below; also see Outdoor Surfaces Use.  Fless and Ticks: To control nuisance fless and ticks (e.g. dog ticks) apply to kennels, yards, runs, and other areas where pets may frequent. To control ticks, apply using a coarse fan spray to vegetation brush, branches, rock walls, and other areas near halation owhere ticks may hardroor of requent. Treat entire area rather than making spot treatments, and retreat as necessary to maintain control. Don ortapoly to pasture or cropland, and do not allow aminas and people access to trateled areas until the depost has dried. Applications can begin in the spring and can continue until frost to control both larvae and adult toks; also see Outdoor Surfaces Use.  Cluster Flies: Apply in lat
Termites (above ground only)	0.2 f l. oz. (6mL) to 0.4 f l. oz. (12 mL) per gallon of water (0.015-0.03% Al)	CYZMIC CS may be used on termites to kill workers or winged reproductive forms which may be present in treated channels at the time of treatment. These applications are not a substitute for mechanical alteration to control substeranean termites, soil treatment labeled termiticides, or furnigation for extensive infestation of drywood termites or other wood-infesting insects, but are considered supplemental. This product is not recommended as sole protection against termites. For active termite infestations, get a professional inspection.

For outdoor use only and use 0.03% rate.

For control of LIGHT beetle infestations, use 0.03% rate.

Sin all states except California, rates for flies may be increased to 0.06% when environmental conditions are severe and/or populations are high. For clean-out/severe infestations, use 0.06% rate.

Application within Food Handling Establishments

For places other than private residences in which exposed food is held, processed, prepared, or served including, but not limited to, areas for receiving, storage, packing (canning), bottling, warging, boxing), preparing foods, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups), areasyming areas. Place as a crack and crevice or sport treatment in and around both food and nonfood areas. Apply in small amounts directly into cracks and crevice, using equipment capable of delivering a pin stream of insecticide, in points between different elements of construction, between equipment and floor, openings leading to voids and hollow spaces in walls, equipment and bases. Clean food contact surfaces and equipment with an effective cleaning compound and rinse with potable water before using species in many supprise and because when the account of the transfer of the second of

product is not introduced into the air. Do not contaminate tood and tood processing surfaces.

Application within Food Serving Areas

For facilities where foods are served, such as dining rooms. Apply as a crack and crevice or spot treatment to selective surfaces such as baseboards, under elements of construction, and into cracks and crevices. Do not treat surfaces likely to be contacted by food. (Do not apply when facility is in operation or foods are exposed.) Food must be covered or removed in area being treated. Do not apply directly to food or allow applications to contaminate food.

NOTE: Application of this product in the Food Areas and/or Food Serving Areas of Food Handling Establishments other than as a spot and/or crack and crevice

NOTE: Application of this product in the Pood Areas and/or Pood Serving Areas of Pood Arabining Establishments other than as a spot and/or crack and crevice treatment is not permitted. Limit the use of application equipment such as the Micro-Injector® or Actisol® applicator in food areas to crack and crevice treatment only. Livestock/Poultry Housing Structures and Pet Kennels

Apply as a general surface (including directed sprays) and/or crack and crevice treatment. Make interior and exterior perimeter applications in and around the livestock, poultry, and pet housing structures. Normal cleaning of the structure must also be done along with applications of CYZMIC CS to effectively control the crawling and flying insect pests listed in the table. With the exception of cattle and calves that may be present, only apply CYZMIC CS to livestock barns or housing structures when unoccupied by animals. Apply to floors, with the exception of realer and caves mat may be present, only apply CTZMILC 5 to Investors Karn's or nousing Structures when undecuped by animals, evertical, and overhead surfaces where crawling or listed flying insect pests are or may be present. Count of prevent contamination. Do not apply to milk rooms or feed rooms. Pay attention to animal areas including stanchions, pipes, windows and doors, and areas where insect pests hide or congregate. Exterior applications to south facing walls and foundation perimeters can help prevent interior infestations of listed flying and crawling insect pests. For poultry houses, apply to floor area (birds grown on litter) or to walls, posts, and cage framing (birds grown in cages). Application may also be made into cracks and crevices around insulation. Reapply after each growout or sanifization procedure. 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 1 - 3 ft. up and 2 - 6 ft. out from foundation. Maintaining a year-round treatment areas will exceed the description of the prevent immigration are provided to the procedure. program will prevent background populations from reaching problem levels. RESTRICTIONS:

- DO NOT make interior applications of CYZMIC CS in areas where animals, except cattle and calves, are present in the facility. Allow treated surfaces to completely dry before restocking the facility.

  DO NOT make applications to any animal feedstuffs, water, or watering equipment.

  DO NOT contaminate any animal food, feed, or water in and around livestock, poultry, or pet housing when making applications.

## Outdoor Surfaces Use

For control of ants, bees, centipedes, cockroaches, crickets, fleas, flies, millipedes, mosquitoes, scorpions, sowbugs, stink bugs, pillbugs, spiders, termites\* (above

For control of arits, pees, certipides, contractives, criscives, trials, riles, missipationes, scorpions, solvougs, stant ougs, principal ground only, ticks, wasps, and other listed perimeter arthropod peets.

Apply with either hand or power application equipment as a residual treatment to ornamental plants next to foundations of buildings and to surfaces of buildings, porches, screenes, window frames, eaves, palios, garages, refuse dumps, and other similar areas where these insect peets are active.

For termites, this type of application is not intended as a substitute for soil treatment labeled termiticides or mechanical alteration to control subterranean termites, or furnigation for extensive infestation of drywood termites or other wood-infesting insects. The purpose of such applications or OYZNIC CS for termities is to kill workers or winged reproductive forms which may be present in treated channels at the time of treatment. Such applications are not a substitute for mechanical alteration, soil treatment or foundation treatment, but are merely a supplement. This product is not recommended as sole protection against termites. For active termite infestations, get a professional inspection

## Perimeter Treatments

Apply a continual band of insecticide around building foundations and around windows, doors, service line entrances, eaves, vents, and other areas to reduce the potential for entry by crawling pests. Before application, remove debris and leaf litter from next to the foundation, cut back vegetation and branches that touch the foundation, and move or rake back rocks, deep mulch, or other potential pest harborage next to the foundation. Apply the band up to 10 ft. wide around the structure for according to state regulations governing commercial pest control and upwards along the foundation to 3 ft. and around windows, doors, and roof overhangs. Apply as a coarse spray to thoroughly and uniformly wet the foundation and/or band area so that the insecticide will reach the soil or thatch level where pests may be active. Amount of concentrate is dependent upon pest species (see pest table and comments), infestation levels, and service interval desired.

Rate Table for Perimeter Barrier Applications

Application Rate: Fl. oz. (mL) of CYZMIC CS	Gals. of Water <sup>1</sup>	Area of Coverage (sq. ft.)
0.2 fl. oz. (6mL)	1-5 gals.	800 - 1600 sq. ft
0.4 fl. oz. (12 mL)	1-5 gals.	800 - 1600 sq. ft
0.8 fl. oz. (24 mL)	1-5 gals.	800 - 1600 sq. ft
Application volume may be greater than 5 gals./800-1600 sq. ft. if required under heavy vegetative or landscaping materials in order to obtain desired coverage.		

### **Examples of Dilutions for Perimeter Barrier Applications**

Application Volume Gals. of Solution per 1,000 sq. ft.	Application Rate fl.oz. of CYZMIC CS per 1,000 sq. ft.	Dilute in	Fl. oz. (mL) of CYZMIC CS Water According to Spray	
Solution per 1,000 sq. it.	63 per 1,000 sq. 1t.	5 gallons	10 gallons	50 gallons
1 gal. per 1,000 sq. ft.	0.2 f l. oz. (6mL) 0.4 f l. oz. (12 mL) 0.8 f l. oz. (24 mL)	1 f l. oz. (30 mL) 2 f l. oz. (60 mL) 4 f l. oz. (120 mL)	2 f l. oz. (60 mL) 4 f l. oz. (120 mL) 8 f l. oz. (240 mL)	10 f l. oz. (300 mL) 20 f l. oz. (600 mL) 40 f l. oz. (1200 mL)
2 gal. per 1,000 sq. ft.	0.2 f l. oz. (6mL) 0.4 f l. oz. (12 mL) 0.8 f l. oz. (24 mL)	0.5 f l. oz. (15 mL) 1 f l. oz. (30 mL) 2 f l. oz. (60 mL)	1 f l. oz. (30 mL) 2 f l. oz. (60 mL) 4 f l. oz. (120 mL)	5 f l. oz. (150 mL) 10 f l. oz. (300 mL) 20 f l. oz. (600 mL)
5 gal. per 1,000 sq. ft.	0.2 f l. oz. (6mL) 0.4 f l. oz. (12 mL) 0.8 f l. oz. (24 mL)	0.2 f l. oz. (6 mL) 0.4 f l. oz. (12 mL) 0.8 f l. oz. (24 mL)	0.4 f l. oz. (12 mL) 0.8 f l. oz. (24 mL) 1.6 f l. oz. (48 mL)	2 f l. oz. (60 mL) 4 f l. oz. (120 mL) 8 f l. oz. (240 mL)

Example calculation: to apply the mid-rate of CYZMIC CS at a volume of 5 gal./1,000 sq. ft, mix 4 oz of concentrate in 50 gallons of water. The percent active ingredient in the finished CYZMIC CS dilution can be calculated with the following formula:

ml. needed to add times 9.7% active in concentrate, divided by gal. finished dilution times 3,785 mL/gal. = % active in dilution. (Example: 4 oz. in 50 gal. is 120 mL times 9.7 equals 1,164, and 50 gal. times 3,785 is 189,250. Dividing 1,164 by 189,250 equals 0.006% active in the tank dilution.)

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

LET TREATED SURFACES DRY BEFORE ALLOWING HUMANS AND PETS TO CONTACT SURFACES.

RESTRICTIONSE.

- DO NOT use this product with oil.
- DO NOT apply this product in any room being used as living, eating, sleeping, or recovery area by patients, the elderly, or infirm when they are in the room.

  DO NOT apply to institutions (including libraries, sports facilities, etc.,) in the immediate area when occupants are present.

  DO NOT apply to dassrooms when in use.

  DO NOT apply this product to edible growing crops or stored raw agricultural commodities used for food or feed.

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

### LAWNS/TURFGRASS AND ORNAMENTALS

CYZMIC CS may be used for applications to maintain indoor or outdoor areas where turf and ornamentals are grown such as residential landscaped areas and non-residential landscapes around institutional, public, commercial and industrial buildings, parks, recreational areas, and athletic fields (including trees, shrubs, flowers, evergreens, foliage plants and groundcovers). Application rates for turf and ornamentals are lower than structural pest control rates, reflecting that treatment intervals are more frequent.

Applicators must ensure that they are certified in the necessary pesticide certification categories to allow application of CYZMIC CS 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: Time application to flowering plants during periods when pollinating insects are not present, such as early morning or late evening.

- DO NOT apply this product through any type of irrigation system.
- DO NOT apply this product to edible crops.
- Do Not apply this product by earlied application.
   Use of this pesticide adjacent to water may affect aquatic organisms. To protect these organisms, DO NOT apply this pesticide within 25 ft. of lakes, reservoirs, rivers, permanent sterams, marshes or natural ponds, estudiates, and commercial fish farm ponds.
   DO NOT make outdoor broadcast applications to turf and ornamentals when wind speed is 15 mph or greater.
   In the state of New York, DO NOT apply within 100 ft. of coastal marshes or streams that drain into coastal marshes.

### Mixing Instructions

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

maximum agricum. Cuss and shake or re-agricule application tains before use in applications in iteratoricum, where up only amount or readment volunine as required. Tank Mixing CYZMIC CS may be tank mixed with other currently registered pesticides unless expressly prohibited by the product label. A small volume mixing test with the other products is recommended to ensure compatibility. If other chemicals are added to the applicator tank, add CYZMIC CS last. Fill tank to desired volume and continue to aglitate 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.

INSECT CONTROL on ORNAMENTAL PLANTS

INSCLI OWN RUL OIL ORNAMENTAL PLANTS

CYZMIC CS is for use to control the pests listed in the table below in such areas as residential landscaped areas and landscaped areas around institutional, public, commercial and industrial buildings, parks, recreational areas, and athletic fields (including trees, shrubs, flowers, evergreens, foliage plants and groundcovers).

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

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

DO NOT apply more than 0.36 lbs. of the a.i. (52.4 fl. ozs. of concentrate) per acre per year.

TANK DILUTION RATES FOR ORNAMENTAL PESTS

PEST	AMOUNT OF CYZMIC CS	APPLICATION INSTRUCTIONS
Ants (Including Imported fire Ants)	1.5 - 5 fl. oz. per 100 gals.	Application to ornamentals should be started prior to the establishment of high insect pest populations.
Armyworms	-	Apply at 7-day intervals if retreatment is necessary. Limit more frequent treatment
Azalea caterpillars	or	to spot treatments.
Aphids Bagworms	44 - 148 mL per	Good spray coverage is necessary to provide the most effective level of control.
Black vine weevils (adult)	100 gals.	Addition of a spreader-sticker at labeled rates may enhance the control of insects
Boxelder bugs	100 gaio.	on certain species of ornamentals having waxy, hard to wet foliage.
Budworms		For spot treatments use 0.5 fl. oz. CYZMIC CS per 1 - 2.5 gals. of water.
California oakworms		Consult your state university or local Cooperative Extension Service office for
Cankerworms		specific pest control application timing in your area.
Cockroaches Crickets		Scale: Thoroughly cover the plant with CYZMIC CS spray, including trunks, stems.
Cutworms		twigs, and foliage for control of scale insects (crawler stage).
Eastern tent caterpillars		Bagworm: Apply CYZMIC CS when bagworm larvae begin to hatch. Spray directly
Elm leaf beetles		on the larvae. Application is the most effective when the larvae are vound.
European sawflies		on and the same of
Fall webworms		
Flea beetles		
Forest tent caterpillars		
Gypsy moth larvae Japanese beetles (adults)		
June beetles (adults)		
Lace bugs		
Leaf-feeding caterpillars		
Leafhoppers		
Leafminers (adults)		
Leaf rollers		
Leaf skeletonizers Midges		
Mosquitoes		
Oleander moth larvae		
Pillbugs		
Pine sawflies		
Pine shoot beetles		
Pinetip moths		
Plant bugs Root weevils		
Sawflies		
Scale insects (crawlers)		
Spiders		
Spittlebugs		
Stink bugs		
Striped beetles		
Striped oakworms Thrips		
Tip moths		
Tussock moth larvae		
Wasps		
Broadmites	3 - 5 fl. oz. per	
Brown softscales	100 gals	
California redscales (crawlers) Clover	100 9000	
mites	or	
Mealybugs		
Pineneedlescales (crawlers) Spider mites	88 -148 mL per	
Whiteflies	100 gals.	

### CYZMIC CS Mixing Chart for Ornamental Insect Pest Control

### (CYZMIC CS to add per spray tank)

Rate of CYZMIC CS	25 Gallons	50 Gallons	100 Gallons	200 Gallons	300 Gallons
1.5 oz.1	0.4 oz.	0.8 oz.	1.5 oz.	3.0 oz.	4.5 oz.
3 oz.2	0.8 oz.	1.5 oz.	3.0 oz.	6.0 oz.	9.0 oz.
5 oz.3	1.3 oz.	2.5 oz.	5.0 oz.	10.0 oz.	15.0 oz.

Equivalent to 3.5 mL per 1,000 sq. ft. (5 oz. per acre) when applied at 8 gal. per 1,000 sq. ft.

Equivalent to 7 mL per 1,000 sq. ft. (10 oz. per acre) when applied at 8 gal. per 1,000 sq. ft. 3 Equivalent to 9.5 mL per 1,000 sq. ft. (14 oz. per acre) when applied at 8 gal. per 1,000 sq. ft

### LAWN/TURFGRASS INSECT PEST CONTROL

CYZMIC CS is for use to control the pests listed in the table below around such areas as residential, institutional, public, commercial and industrial buildings parks, recreational areas and athletic fields.

### RESTRICTIONS:

- KEEP CHILDREN AND PETS OFF TREATED AREAS UNTIL SPRAY HAS DRIED FOLLOWING APPLICATION.
- . DO NOT apply when turfgrass is waterlogged or when soils are saturated with water (i.e. will not accept irrigation).
- DO NOT apply more than 0.36 lbs. of a.i. (52.4 fl. oz. of concentrate) per acre per year.

### RATES FOR LAWN AND TURFGRASS PESTS

PEST	AMOUNT OF CYZMIC CS*	APPLICATION INSTRUCTIONS
Ants (Including Imported Fire Ants)	3.4 - 7 mL per 1,000 sq. ft. or	Application to turf should be started prior to the establishment of high insect pest populations and significant turf damage. Make reapplications as necessary to keep pest populations under control, using higher rates as pest pressure increases.
Armyworms Centipedes	5 -10 fl. oz. per acre	Apply at 7-day intervals if retreatment is necessary. More frequent treatments should be limited to spot treatments.
Chinch Bugs¹ Crickets		For spot treatments, use 0.5 fl. oz. of CYZMIC CS per 1 - 2.5 gals. of water.
Cultvorms Earwigs Fleas (adult) Grasshoppers Japanese beetles (adult) Millipedes Millipedes Missuitoes (adult) Pillibugs Sod veebworms Sow bugs Shirk Bugs Ticks (including species which transmit Lyme disease)		Surface Insect Control (armyworm, cutworms, fleas, etc.): Apply CYZMIC CS at labeled rates in 2 - 5 gals. of water per 1,000 sq. ft. The use of a spreader-sticker may be useful if high rainfall amounts are forecast, otherwise the addition of adjuvants is not necessary under normal conditions for surface insect control in turf. Delay watering or mowing for 12 - 24 hours to control surface-feeding insect pests.
Bluegrass billbugs (adult) Black turfgrass ataerius (adult) Chiggers Fleas (adult)	7 ml per 1,000 sq. ft or 10 fl. oz. per acre	Thatch Inhabiting Insect Control (chinch bugs, billbugs, etc.): Apply CYZMIC CS at labeled rates in 2 - 10 gas. of water per 1,000 sq. ft. The use of a nonince witing agent, pertenant or similar adjuvant is recommended at label rates. Lightly irrigate after application with up to 1/2 inch of water to move the CYZMIC CS into the thatch layer. If irrigation is not available, then use highly water application rates.
Grubs (suppression) Hyperodes weevils (adult) Mole crickets (nymphs and young adults)		Subsurface Insect Control (mole crickets, grubs, etc.): Apply CYZMIC CS at labeled rates in 4 - 10 gals. of water per 1,000 sq. ft. The use of a nonionic wetting agent, penetrant or similar adjuvant is strongly recommended following label rates. Use the highest water application rate possible with your srayer. Apply CYZMIC CS to turf wet with dew, rain or irrigation. Water-in immediately after application with ¼ - ½ inch of water.
		Fire Ant Control: Treat individual mounds with a drench application using a watering can. Use 0.5 fl. oz. of CYMIC Sper 2.5 gals. of water. Thoroughly soak each mound and a 3 ft. diameter circle around each mound. Gently apply the mixture to world disturbing the mound. Disturbing the mound may cause the ants to migrate and reduce the effectiveness of the treatment. Apply in early morning or late evening hours. You may make applications on a monthly basis to maintain protection of treated areas.
		Mosquito Control: Apply as a general spray around landscape plantings, turf, and building foundations to control mosquitoes. Apply CYZMIC CS at labeled rates in 2 - 5 gals. of water per 1,000 sq. ft.

Not for use on chinch bugs in New York state.

Example: To treat the listed turf pests at the 7 mL per 1,000 sq. ft. rate, determine the gallons of dilution per 1,000 sq. ft. needed to adequately cover the turf. At a 5 gallon per 1,000 sq. ft. dilution, take the 7 mL and divide it by the 5 (gallon) to get 1.4 mL to be added per gallon. For a 50 gallon tank, therefore, this would be 1.4 mL X 50 = 70 mL (or 2.5

## CYZMIC CS Mixing Chart for Turf Insect Pest Control

## (CYZMIC CS to add per 100 gal. spray tank)

Rate of	Application Rate Per 1,000 Square Feet of Turf				
CYZMIC CS	2 Gallons	4 Gallons	6 Gallons	8 Gallons	10 Gallons
5 oz. per acre	5.7 oz.	2.9 oz.	1.9 oz.	1.4 oz.	1.2 oz.
10 oz. per acre	11.5 oz.	5.7 oz.	3.8 oz.	2.9 oz.	2.3 oz.
Conversion Rate: 1 fluid ounce (fl. oz.) equals 29 milliliters (mL).					

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE AND SPILL PROCEDURES: Store upight at room temperature. Keep container closed when not in use. Do not store near food or feed. Avoid exposure to extreme temperatures in case of spillage or feel aleages, scalk up with an absorbent material such as sand, savidust, earth, Fuller's earth, etc. Dispose of with chemical waste.

PESTICIDE DISPOSAL: Pesticide, spray mindure or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility. CONTAINER DISPOSAL

For Containing out 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. It is this with under a product of the container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank Fill the container. For Containers greater than 5 Gallors. Nonrefiliable container. On treuse or refill this container. Clean container promptly after emptying. Triple rines as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 114 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth several times. Turn the container over ornot its other end and tight back and forth several times. Empty the rinstale into application equipment or a mix tank or store rinstale for later use or disposal. Repeat this procedure where or a saint part of the several times. If the rine recognite it available. The reciprises of container in a saintary landfill in; a failowed by State and local authorities, or of the container. Sendifished Containers (Refillable Container) Refill this container with presticides only, Do not russe this container for any other purpose. Cleaning the container before final disposal, or the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the re-filler, to clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or re-circulate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.

## LIMITATION OF WARRANTY AND LIABILITY

Read the entire direction for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following CONDITIONS, DISCLAIMER OF WARRANTIES, and

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

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, Control Solutions, Inc. makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond the statements made on this label. No agent of Control Solutions, Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Control Solutions, Inc. disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid or at Control Solutions, Inc. election, the replacement of product.

Actisol® is a registered trademark of Roussel-Uclaf

Micro-Injector® is a registered trademark of Whitmire Micro-gen Research Laboratories, Inc.

# CYZMIC® CS



Controlled Release Insecticide

ACTIVE INGREDIENTS:

Lambaa-cynaiothrin^: [1 a(S\*),3 a(Z)]-(±)-cyano-(3-phenoxyphenyl) methyl-3-(2-chloro-3.3.3-trifluoro-1-propenyl)

\*Synthetic pyrethroid



NET CONTENTS: 0.4 FL.OZ.

# CAUTION / PRECAUCION

See label booklet for additional Precautionary Statements, Directions for Use and Storage and Disposal.

Manufactured by: Control

Solutions Inc. 5903 Genoa-Red Bluff, Pasadena, TX 77507 A member of Adama

ADAMA | Consumer and Professional Solutions

EPA 051017

# CYZMIC® CS



# Controlled Release Insecticide



### With CapVantage™ Technology

For use in, on and around buildings and structures for the control of listed pests, including on lawns, ornamental trees and shrubs around residential, institutional, public, commercial, agricultural and industrial buildings; and parks, recreational areas and athletic fields.

### ACTIVE INGREDIENTS:

Lambda-cyhalothrin\*:

 $[1 \alpha(S^*), 3 \alpha(Z)] - (\pm) - cyano - (3-phenoxyphenyl) methyl-3-$ 

(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate .....9.7%
OTHER INGREDIENTS: .....90.3%

TOTAL: 100

\*Synthetic pyrethroid

# KEEP OUT OF REACH OF CHILDREN CAUTION / PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional precautionary statements and directions for use in booklet.

EPA Reg. No. 53883-389

EPA Est. No. 53883-TX-002

### **NET CONTENTS:**

0.4 FI O7



Manufactured by:

Control Solutions Inc. 5903 Genoa-Red Bluff, Pasadena, TX 77507

A member of Adama
Consumer and Professional Solutions

EPA 051017

### FIRST AID

### IF SWALLOWED:

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

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.

### PRECAUTIONARY STATEMENTS

### **Hazards to Humans and Domestic Animals**

**CAUTION:** Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

#### ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish. 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 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. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Apolv this product only as specified on this label.

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

### PHYSICAL AND CHEMICAL HAZARDS

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

### PRODUCT INFORMATION

CYZMIC CS is a unique formulation utilizing CapVantage™ Technology which is a proprietary blend of ingredients for use with the active ingredient Lambda-cyhalothrin.

### DIRECTIONS FOR USE

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

IMPORTANT: Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or on lawns or grounds.

This product is RESTRICTED for use in New York State.

Do not allow children or pets to contact treated surfaces until spray has dried.

Application Restrictions for Residential Outdoor Surface and Space Sprays:

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

- 1. Applications to soil or vegetation around structure:
- 2. Applications to lawns, turf, and other vegetation;
- 3. Applications to building foundations, up to a maximum height of 3 feet above grade;
- Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning or other structure;
- Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width:
- 6. Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in runoff into storm drains, drainage ditches, gutters, or surface waters, in order to control occasional invaders or aggregating pests.

Do not water the treated area to the point of runoff.

Do not make applications during rain.

Do not apply directly to sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur, except as directed by this label.

#### PERIMETER PEST CONTROL

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

Nonfood/nonfeed areas of food/feed handling establishments include garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets, and storage (after canning or bottling).

For indoor applications, CYZMIC CS can be reapplied at 21-day intervals if necessary.

#### Mixing Instructions

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

#### Tank Mixing

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

CYZMIC CS may be tank mixed with an Insect Growth Regulator (IGR). Follow all restrictions and precautions which appear on the labels of these products.

### Foam Applications

CYZMIC CS may be converted to a foam and the foam used to treat structural voids to control or prevent pests including ants, bees, termites (above ground only), wasps, or other listed arthropods harboring in walls, under slabs, or in other void areas.

### RATES FOR PESTS (HAND APPLICATION EQUIPMENT)

Pests	Dilution Rate (Concentration of AI)	SPECIFIC USE DIRECTIONS
Ants Bedbugs(adult) Bees Boxeloter Bugs Boxeloter Bugs Boxeloter Bugs Carpet Beetles Carpet Beetles Contipedes Clayert Beetles Cover Mites Cockroaches¹ Conflused Flour Beetles Crofficets Earwigs Friebrats Silvertieb Saw-toothed Grain Beetles Saw-toothed Grain Beetles Saw-toothed Grain Beetles Silverfish Sow bugs Spiders Silverfish Sow bugs Spiders Silverfish	0.2 f1. 0z. (6 mL) to 0.4 f1. 0z. (12 mL) per gallon of water (0.015-0.03% Al)	Ants: Apply to any trails around doors and windows and other places where anis mp be found. Locale and treat nests. Where arets are trailing inside, apply as a residual surface treatment to active areas such as baseboards, comers, around pipes, in and behind cabinets, behind and under refrigerators, sinks, furnaces and stoves, cracks and crevices. When combining bails and residual surface insecticides, apply surface insecticides in cracks and crevices, along baseboards, and infested surfaces and cusive barner treatments. Use bails in other areas that are untreated by residual insecticides; also see Outdoor Surfaces Use.  Bedbugs: Clean floors and surfaces by vacouming revices, baseboards, loose plaster, behind bed frames and headboards, beneath beds and furniture, and to bedsprings and bed frames. Do not apply to furniture surfaces or mattresses where people will be laying or sitting, Infested bedding should not be treated, but should be removed, placed in sealed plastic bags, and taken for laundering and drying at high temperatures.

Pests	Dilution Rate (Concentration of AI)	SPECIFIC USE DIRECTIONS
Cockroaches¹ Crickets <sup>6</sup> Flies <sup>5</sup> Litter Beetles <sup>8</sup> (adults/ immature stages such as Darkling, Hide, and Carrion) Mosquitoes <sup>4</sup>	0.8 f l. oz. (24 mL) per gallon of water (0.06% AI)	Cockroaches, Crickets, Earwigs, Firebrats, Silverfish, Spiders and Stink Bugs. Apply as a coarse, low pressure spary or areas where these peets hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, cabinets, behind and under refrigerators, sinks, furnaces and stores, the underside of shelves, drawers and similar areas. Pay particular attention to cracks and crevices; also see <b>Outdoor Surfaces Use</b> .
Pillbugs Scorpions Spiders <sup>©</sup> Spider Mites (Two- spotted, Spruce) Stink Bugs <sup>©</sup> Ticks <sup>©</sup>		Bees, Flies, Mosquitoes, and Wasps: Apply directly to walls, ceilings, window screens, and other resting areas as a residual surface treatment. May be used inside residential buildings as well as in and around carports, garages, and storage sheds; also see Outdoor Surfaces Use. Use caution when treating nests of stinging insects as CYZMIC CS does not provide instant knockdown. Protective equipment for the applicator may be required. Treat bee, wasp and homet nests late in the day when most insects will be present. Allow 2-3 days for the colonyt to lead negreat after 21 days, if necessary.
		Yards or other frequented areas enclosed by landscaping can benefit from the creation of a mosquito barrier to reduce invading mosquitose by the treatment of perimeter vegetation. Apply CYZMIC CS at specified rates in 2-5 gals. Of water per 1,000 sq. ft. Carpenter Beesc. Apply cares spary to throughly wet wood surfaces where bees have been previously active or to provide protection against further damage. Apply early in the spring to prevent bees from invading wood. When bees have infested wood, surface applications can help control embedded larvae and bees that emerge from the wood.

Pests	Dilution Rate (Concentration of AI)	SPECIFIC USE DIRECTIONS
		Pantry Pests (i.e., Carpet beetle, Cigarette beetle, Confused flour beetle, Lesser grain borer, Red flour beetle, lice weevil, and Saw-hothed grain beetle): Apply to cupboards, shelving, and storage areas. Remove all utensils, uncovered flootsfuffs (or any having original package opened), and shelf gaper before making application. Allow treated surfaces to dry and cover shelves with clean paper before replacing any utensils, foodstuff, or other items. Destroy any foodsfuff accidentally contaminated with treatment solution.
		Boxelder Bugs, Centipedes, Millipedes, Pillbugs, and Sow bugs. Apply around doors and windows and other places where these pests may be found or where they may enter premises. Treat baseboards, storage areas, and other locations. Apply treatments to prevent infestation as described below; also see Outdoor Surfaces Use.
		Fleas and Ticks: To control nuisance fleas and ticks (e.g. dog ticks) apply to kennels yards, runs, and other areas where pets may frequent. To control ticks, apply using a coarse fan spray to vegetation brust, branches, rock walls, and other areas near habitation where ticks may harbor or frequent. Treat entire area rather than making spot treatments, and retreat as necessary to maintain control.
		Do not apply to pasture or cropland, and do not allow animals and people access to treated areas until the depost has dried. Applications can begin in the spring and can continue until first to control both larvae and adult ticks; also see Outdoor Surfaces Use.

Pests	Dilution Rate (Concentration of AI)	SPECIFIC USE DIRECTIONS
		Cluster Files. Apply in late summer or early f all before files are observed alighting on surfaces. Apply throughly on stiding, under eaves, and around windows and doors, paying particular attention to south-facing surfaces, but do not allow runoff to occur. Heavy precipitation prior to frost may require retreatments to maintain protection. In winter and spring when flies become active and are emerging, interior crack and crevice and viol treatments can help reduce the infestation, along with ULV or general surface application in infested attics or unoccupied offsts.
		Litter Beetles (Darkling, Hide, and Carrion Beetles) and Files In Animal Housing (Such As Poultry Houses): To control adult little brells: apply CYZMIC SC to walls and floors at cleanout, before reintroduction of animals. This will suppress beetles that escaped earlier treatment and will help delay orset of future infestations. Pay attention to areas where beetles frequently occur, such as walls, supports, cages, stalls, and around feeders. To help control files, apply a directed application to horizontal surfaces and overhead areas and allow to dry before reintroduction of animals, asto, see Livestock/ Poultry Housing Structures and Pet Kennels.

Pests	Dilution Rate (Concentration of AI)	SPECIFIC USE DIRECTIONS
Termites (above ground only)	0.2 f1. oz. (6mL) to 0.4 f1. oz. (12 mL) per gallon of water (0.015-0.03% Al)	CYZMIC CS may be used on termites to kill workers or winged reproductive forms which may be present in treated channels at the time of treatment. These applications are not a substitute for mechanical alteration to control subternanean termites, soil treatment labeled termiticides, or fumigation for extensive infestation of drywood termites or other wood-infesting insects, but are considered supplemental. This product is not recommended as sole protection against termites. For active termite infestations, get a professional inspection.

<sup>&</sup>lt;sup>1</sup>For cockroaches, the rate for maintenance treatments is 0.015% and for clean-out treatments is 0.03%. For control of severe infestations, use 0.06% rate.

### Application within Food Handling Establishments

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

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

<sup>&</sup>lt;sup>2</sup> For outdoor use only and use 0.03% rate.

<sup>&</sup>lt;sup>3</sup> For control of LIGHT beetle infestations, use 0.03% rate.

<sup>4</sup> For residual control, use 0.06% rate.

<sup>5</sup> In all states except California, rates for flies may be increased to 0.06% when environmental conditions are severe and/or populations are high.
8 For clean-out/severe infestations, use 0.06% rate.

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

### Application within Food Serving Areas

For facilities where foods are served, such as dining rooms. Apply as a crack and crevice or spot treatment to selective surfaces such as baseboards, under elements of construction, and into cracks and crevices. Do not treat surfaces likely to be contacted by food. (Do not apply when facility is in operation or foods are exposed.) Food must be covered or removed in area being treated. Do not apply directly to food or allow applications to contaminate food.

NOTE: Application of this product in the Food Areas and/or Food Serving Areas of Food Handling Establishments other than as a spot and/or crack and crevice treatment is not permitted. Limit the use of application equipment such as the Micro-Injector® or Actisol® applicator in food areas to crack and crevice treatment only.

### Livestock/Poultry Housing Structures and Pet Kennels

Apply as a general surface (including directed sprays) and/or crack and crevice treatment. Make interior and exterior perimeter applications in and around the livestock, poultry, and pet housing structures. Normal cleaning of the structure must also be done along with applications of CYZMIC CS to effectively control the crawling and flying insect pests listed in the table.

With the exception of cattle and calves that may be present, only apply CYZMIC CS to livestock barns or housing structures when unoccupied by animals. Apply to floors, vertical, and overhead surfaces where crawling or listed flying insect pests are or may be present. Cover feeders, waterers, and feed carts before application to prevent contamination. Do not apply to milk rooms or feed rooms. Pay attention to animal areas including stanchions, pipes, windows and doors, and areas where insect pests hide or congregate. Exterior applications to south facing walls and foundation perimeters can help prevent interior infestations of listed flying and crawling insect pests. For poultry houses, apply to floor area (birds grown on litter) or to walls, posts, and cage framing (birds grown in cages). Application may also be made into cracks and crevices around insulation. Reapply after each growout or sanitization procedure. 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 1 - 3 ft. up and 2 - 6 ft. out from foundation. Maintaining a year-round treatment program will prevent background populations from reaching problem levels.

#### RESTRICTIONS:

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

#### Outdoor Surfaces Use

For control of ants, bees, centipedes, cockroaches, crickets, fleas, flies, millipedes, mosquitoes, scorpions, sowbugs, stink bugs, pillbugs, spiders, termites\* (above ground only), ticks, wasps, and other listed perimeter arthropod pests.

Apply with either hand or power application equipment as a residual treatment to ornamental plants next to foundations of buildings and to surfaces of buildings, porches, screens, window frames, eaves, patios, garages, refuse dumps, and other similar areas where these insect pests are active.

For termites, this type of application is not intended as a substitute for soil treatment labeled termiticides or mechanical alteration to control subterranean termites, or furnigation for extensive infestation of drywood termites or other wood-infesting insects. The purpose of such applications of CYZMIC CS for termites is to kill workers or winged reproductive forms which may be present in treated channels at the time of treatment. Such applications are not a substitute for mechanical alteration, soil treatment or foundation treatment, but are merely a supplement. This product is not recommended as sole protection against termites. For active termite infestations, get a professional inspection.

#### Perimeter Treatments

Apply a continual band of insecticide around building foundations and around windows, doors, service line entrances, eaves, vents, and other areas to reduce the potential for entry by crawling pests. Before application, remove debris and leaf litter from next to the foundation, cut back vegetation and branches that touch the foundation, and move or rake back rocks, deep mulch, or other potential pest harborage next to the foundation. Apply the band up to 10 ft. wide around the structure (or according to state regulations governing commercial pest control) and upwards along the foundation to 3 ft. and around windows, doors, and roof overhangs. Apply as a coarse spray to thoroughly and uniformly wet the foundation and/or band area so that the insecticide will reach the soil or thatch level where pests may be active.

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

Rate Table for Perimeter Barrier Applications

Application Rate: Fl. oz. (mL) of CYZMIC CS	Gals. of Water <sup>1</sup>	Area of Coverage (sq. ft.)	
0.2 fl. oz. (6mL)	1-5 gals.	800 - 1600 sq. ft	
0.4 fl. oz. (12 mL)	1-5 gals.	800 - 1600 sq. ft	
0.8 fl. oz. (24 mL)	1-5 gals.	800 - 1600 sg. ft	

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

**Examples of Dilutions for Perimeter Barrier Applications** 

Application Volume Gals. of Solution	Application Rate fl.oz. of CYZMIC CS	Fl Dilute in Wat	FI. oz. (mL) of CYZMIC CS to Dilute in Water According to Spray Tank Volumes	S to Tank Volumes
per 1,000 sq. ft.	per 1,000 sq. ft.	5 gallons	10 gallons	50 gallons
200	0.2 f l. oz. (6mL)	1 f l. oz. (30 mL)	2 f l. oz. (60 mL)	10 f l. oz. (300 mL)
1 gar. per	0.4 f l. oz. (12 mL)	2 f I. oz. (60 mL)	4 fl. oz. (120 mL)	20 f I. oz. (600 mL)
1,000 sq. 11.	0.8 f l. oz. (24 mL)	4 fl. oz. (120 mL)	8 f I. oz. (240 mL)	40 f l. oz. (1200 mL)
200	0.2 f l. oz. (6mL)	0.5 f l. oz. (15 mL)	1 f l. oz. (30 mL)	5 f I. oz. (150 mL)
2 gal. per	0.4 f l. oz. (12 mL)	1 f l. oz. (30 mL)	2 f l. oz. (60 mL)	10 f I. oz. (300 mL)
1,000 84. 11.	0.8 f l. oz. (24 mL)	2 f l. oz. (60 mL)	4 fl. oz. (120 mL)	20 f I. oz. (600 mL)
F gal nor	0.2 f l. oz. (6mL)	0.2 f l. oz. (6 mL)	0.4 fl. oz. (12 mL)	2 f I. oz. (60 mL)

concentrate in 50 gallons of water. The percent active ingredient in the finished CYZMIC CS dilution can be **Example calculation:** to apply the mid-rate of CYZMIC CS at a volume of 5 gal./1,000 sq. ft., mix 4 oz of 8 fl. oz. (240 mL) calculated with the following formula:

4 fl. oz. (120 mL)

1.6 fl. oz. (48 mL) 0.8 fl. oz. (24 mL)

0.8 f l. oz. (24 mL)

0.8 fl. oz. (24 mL) 0.4 fl. oz. (12 mL)

,000 sq. ft. 5 gal. per

0.4 f l. oz. (12 mL)

% active in dilution. (Example: 4 oz. in 50 gal. is 120 mL times 9.7 equals 1,164, and 50 gal. times 3,785 is mL needed to add times 9.7% active in concentrate, divided by gal. finished dilution times 3,785 mL/gal. = 189,250. Dividing 1,164 by 189,250 equals 0.006% active in the tank dilution.) NOTE: Do not use water based sprays of CYZMIC CS in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard. Thoroughly wash out sprayer and screen with water and detergent before using CYZMIC CS. CYZMIC CS has not stained or caused damage to painted or varnished surfaces, plastics, fabrics, or other surfaces where water applied alone causes no damage. However, treat a small area and allow to dry, to determine whether staining will occur.

# LET TREATED SURFACES DRY BEFORE ALLOWING HUMANS AND PETS TO CONTACT SURFACES.

#### RESTRICTIONS:

- . DO NOT use this product with oil.
- DO NOT apply this product in any room being used as living, eating, sleeping, or recovery area by patients, the elderly, or infirm when they are in the room.
- DO NOT apply to institutions (including libraries, sports facilities, etc.,) in the immediate area when occupants are present.
- DO NOT apply to classrooms when in use.
- DO NOT apply this product to edible growing crops or stored raw agricultural commodities used for food or feed.
- DO NOT allow applications to contact water inhabited by fish, such as in aquariums and ornamental fish ponds that are located in/around structures being treated.

### LAWNS/TUREGRASS AND ORNAMENTALS

CYZMIC CS may be used for applications to maintain indoor or outdoor areas where turf and ornamentals are grown such as residential landscaped areas and non-residential landscapes around institutional, public, commercial and industrial buildings, parks, recreational areas, and athletic fields (Including trees, shrubs, flowers, evergreens, foliage plants and groundcovers). Application rates for turf and ornamentals are lower than structural pest control rates, reflecting that treatment intervals are more frequent.

Applicators must ensure that they are certified in the necessary pesticide certification categories to allow application of CYZMIC CS 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:** Time application to flowering plants during periods when pollinating insects are not present, such as early morning or late evening.

### RESTRICTIONS:

- DO NOT apply this product through any type of irrigation system.
- DO NOT apply this product to edible crops.
- DO NOT apply this product by aerial application.
- Use of this pesticide adjacent to water may affect aquatic organisms.
   To protect these organisms, D0 NOT apply this pesticide within 25 ft. of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries, and commercial fish farm ponds.
- DO NOT make outdoor broadcast applications to turf and ornamentals when wind speed is 15 mph or greater.
- In the state of New York, DO NOT apply within 100 ft. of coastal marshes
  or streams that drain into coastal marshes.

#### Mixing Instructions

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

### Tank Mixing

CYZMIC CS may be tank mixed with other currently registered pesticides unless expressly prohibited by the product label. A small volume mixing test with the other products is recommended to ensure compatibility. If other chemicals are added to the applicator tank, add CYZMIC CS 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.

#### INSECT CONTROL on ORNAMENTAL PLANTS

CYZMIC CS is for use to control the pests listed in the table below in such areas as residential landscaped areas and landscaped areas around institutional, public, commercial and industrial buildings, parks, recreational areas, and athletic fields (including trees, shrubs, flowers, evergreens, foliage plants and groundcovers).

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

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

#### RESTRICTIONS:

 DO NOT apply more than 0.36 lbs. of the a.i. (52.4 fl. ozs. of concentrate) per acre per year.

### TANK DILUTION RATES FOR ORNAMENTAL PESTS

PEST	AMOUNT OF CYZMIC CS	APPLICATION INSTRUCTIONS
Ants (Including Imported fire Ants) Armyworms Arzalea cateprillars Aphids Bagworms Back vine weevils (adult) Boxelder bugs Budworms California adeworms Cankervorms Cankervorms	AMOUNT OF CYZMIC CS  1.5 - 5 fl. oz. per 100 gals.  or  44 - 148 mL per 100 gals.	Application to ornamentals should be started prior to the establishment of high insect pest populations. Apply at 7-day intervals if retreatment is necessary. Limit more frequent treatment to spot treatments.  Good spray coverage is necessary to provide the most effective level of control. Addition of a spreader-sticker at labeled rates may enhance the control of insects on certain species
Leaf-feeding caterpillars Leafnoppers Leafminers (adults) Leaf rollers Leaf skeletonizers Midges Mosquitoes Oleander moth larvae Pillbugs Pine sawflies		

PEST	AMOUNT OF CYZMIC CS	APPLICATION INSTRUCTIONS
Pine shoot beetles Pinetip moths	1.5 - 5 fl. oz. per 100 gals.	For spot treatments use 0.5 fl. oz. CYZMIC CS per 1 - 2.5 gals. of water.
Plant bugs Root weerils Sawflies Scale insects (crawlers) Spiders Spittlebugs Stink bugs Striped beetles Striped oakworms Thrips Tussock moth larvae Wasps	Root weelvils or Sawflies or Sawflies 44 - 148 mL per Spiders 100 gals. Spittlebugs Stripe doellee Striped oekeles Stripe doelles Tip moths Tussock moth larvae	Consult your state university or local Cooperative Extension Service office for specific pest control application timing in your area.  Scale: Thoroughly cover the plant with CYZMIC CS spray, including tunks, stems, twigs, and foliage for control of scale insects (crawler stage).  Bagworm: Apply CYZMIC CS when bagworm larnae begin to hatch. Spray directly on the larvae. Application is the most effective when the larvae are young.
Broadmites Brown softscales California redscales (crawlers) Clover mites Mealybugs	3 - 5 fl. oz. per 100 gals or	
Pineneedlescales (crawlers) Spider mites Whiteflies	88 -148 mL per 100 gals.	

# CYZMIC CS Mixing Chart for Ornamental Insect Pest Control (CYZMIC CS to add per spray tank)

Rate of CYZMIC CS	25 Gallons	50 Gallons	100 Gallons	200 Gallons	300 Gallons
1.5 oz.1	0.4 oz.	0.8 oz.	1.5 oz.	3.0 oz.	4.5 oz.
3 oz.2	0.8 oz.	1.5 oz.	3.0 oz.	6.0 oz.	9.0 oz.
5 oz.3	1.3 oz.	2.5 oz.	5.0 oz.	10.0 oz.	15.0 oz.

<sup>1</sup> Equivalent to 3.5 mL per 1,000 sq. ft. (5 oz. per acre) when applied at 8 gal, per 1,000 sq. ft.

#### I AWN/TUREGRASS INSECT PEST CONTROL

**CYZMIC CS** is for use to control the pests listed in the table below around such areas as residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields.

#### RESTRICTIONS:

- KEEP CHILDREN AND PETS OFF TREATED AREAS UNTIL SPRAY HAS DRIED FOLLOWING APPLICATION.
- DO NOT apply when turfgrass is waterlogged or when soils are saturated with water (i.e. will not accept irrigation).
- DO NOT apply more than 0.36 lbs. of a.i. (52.4 fl. oz. of concentrate) per acre per year.

<sup>&</sup>lt;sup>2</sup> Equivalent to 7 mL per 1,000 sq. ft. (10 oz. per acre) when applied at 8 gal. per 1,000 sq. ft.

<sup>&</sup>lt;sup>3</sup> Equivalent to 9.5 mL per 1,000 sq. ft. (14 oz. per acre) when applied at 8 gal. per 1,000 sq. ft.

RATES FOR LAWN AND TURFGRASS PESTS

PEST	AMOUNT OF CYZMIC CS*	APPLICATION INSTRUCTIONS
Ants (Including Imported Fire Ants) Armyworms Centipedes Chinch Bugs' Crickets Cutworms Earwigs Fleas (adult) Grasshoppers Japanese beetles (adult)	3.4 - 7 mL per 1,000 sq. ft. or 5 -10 fl. oz. per acre	Application to turf should be started prior to the establishment of high insect pest populations and significant turf damage. Make reapplications as an ecssary to keep pest populations under control, using higher rates as pest pressure increases.  Apply at 7-day intervals if retreatment is necessary. More frequent treatments should be limited to spot treatments.  For spot treatments, use 0.5 fl. oz. of CYZMIC CS per 1 - 2.5 gals. of water.
Japanese beeties (adult) Milligedes Mites Mosquitoes (adult) Pillibugs Sod webworms Sow bugs Stink Bugs Ticks (including species which transmit Lyme disease)		Surface Insect Control (armyworm, cutworms, fleas, etc.): Apply OYZMIC CS at labeled rates in 2 - 5 gals. of water per 1,000 s.g. ft. The use of a spreader-sticker may be useful if high rainfall amounts are forecast, otherwise the addition of adjuvants is not necessary under normal conditions for surface insect control in turf. Delay watering or mowing for 12 - 24 hours to control surface-feeding insect pests.

	CYZMIC CS*	
Bluegrass billbugs (adult) Black turfgrass ataenius (adult) Chiggers Fleas (adult) Grubs (suppression) Hyperodes weevils (adult) Mole crickets	7 ml per 1,000 sq. ft or 10 fl. oz. per acre	Thatch Inhabiting Insect Control (chinch bugs, billbugs, etc.); Apply CTZMIC CS at labeled rates in 2 - 10 gals. of water per 1,000 s.; If. The use of a nonionic wetting agent, penetrant or similar adjuvant is recommended at blact lates. Lightly irrigate after application with up to 1/2 inch of water to move the CYZMIC CS into the thatch layer. If irrigation is not available, then use high water application rates.
(nymphs and young adults)		Subsurface Insect Control (mole crickets, grubs, etc.); Apply CYZMIC CS at labeled rates in 4 - 10 gals, of water per 1,000 sq. ft The use of a noninoin wetting agent, penetrant or similar adjuvant is strongly recommended following label rates. Use the highest water application rates possible with your sprayer, Apply CYZMIC CS to furf wet with dew, rain or irrigation. Water-in immediately after application with ¼ - ½ inch of water.
		Fire Ant Control: Treat individual mounds with a dirench application using a vatering can. Use 0.5 ft. oz. of VZMIC SS per 2.5 gals of water. Thoroughly sock each mound and a 3 ft. diameter circle around each mound. Gently apply the mixture to avoid disturbing the mound. Disturbing the mound may cause the ants to migrate and reduce the effectiveness of the treatment. Apply in early morning or late evening hours. You may make applications on a monthly basis to maintain protection of treated areas.

APPLICATION INSTRUCTIONS

Mosquito Control: Apply as a general spray around landscape plantings, turf, and building foundations to control mosquitoes. Apply CYZMIC CS at labeled rates in 2 - 5 gals, of water per 1,000 sq. ft.

PEST

AMOUNT OF

CY7MIC CS\*

<sup>1</sup> Not for use on chinch bugs in New York state.

<sup>\*</sup> Example: To treat the listed turf pests at the 7 mL per 1,000 sq. ft. rate, determine the gallons of dilution per 1,000 sq. ft. needed to adequately cover the turf. At a 5 gallon per 1,000 sq. ft. dilution, take the 7 mL and divide it by the 5 (gallon) to get 1.4 mL to be added per gallon. For a50 gallon tank, therefore. this would be 1.4 mL X 50 = 70 mL for 2.5 cq. 1 in 50 callons of water.

### CYZMIC CS Mixing Chart for Turf Insect Pest Control

(CYZMIC CS to add per 100 gal. spray tank)

Rate of	Application Rate Per 1,000 Square Feet of Turf						
CYZMIC CS	S 2 Gallons 4 Gallons 6 Gallons 8 Gallons 10 Gallons						
5 oz. per acre 5.7 oz. 2.9 oz. 1.9 oz. 1.4 oz. 1.2 oz. 10 oz. per acre 11.5 oz. 5.7 oz. 3.8 oz. 2.9 oz. 2.3 oz.							
Conversion Rate: 1 fluid ounce (fl. oz.) equals 29 milliliters (ml.)							

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE AND SPILL PROCEDURES: Store upright at room temperature. Keep container closed when not in use. Do not store near food or feed. 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.

PESTICIDE DISPOSAL: Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility.

### CONTAINER DISPOSAL:

For Containers equal to or less 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 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 or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

#### LIMITATION OF WARRANTY AND LIABILITY

Read the entire direction for use, conditions of warranties and limitations of liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following CONDITIONS, DISCLAIMER OF WARRANTIES, and LIMITATIONS OF LIABILITY.

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

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