

ZENECA Professional Products

DEMAND[®] CS

I N S E C T I C I D E

This is a specimen label and may be inaccurate or out of date. It is intended as a guide in providing general information regarding use of this product. Always read and follow the EPA approved label on the product container.

ZENECA Professional Products

DEMAND[®] CS

I N S E C T I C I D E

For Use by Individuals/Firms Licensed or Registered by the State to Apply Pesticide Products. States May Have More Restrictive Requirements Regarding Qualifications of Persons Using This Product. Consult the Pest Control Regulatory Agency of Your State Prior to Use of This Product.

ACTIVE INGREDIENT

Lambda-cyhalothrin ¹ [1 α (S [*]),3 α (Z)]-(±)-cyano-(3-phenoxyphenyl)methyl- 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2- dimethylcyclopropanecarboxylate	9.7%
INERT INGREDIENTS	90.3%
TOTAL	100.0%

¹Synthetic pyrethroid
EPA Reg. No. 10182-261

KEEP OUT OF REACH OF CHILDREN CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

IF SWALLOWED: If victim is alert and not convulsing, rinse mouth out and give 200 to 300 ml (1 cup) of water to dilute material. **IMMEDIATELY** contact your local Poison Control Center. Vomiting should only be induced under the direction of a physician or a Poison Control Center. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer more water. **IMMEDIATELY** transport victim to an emergency facility.

IF IN EYES: Flush with plenty of water for at least 15 minutes. Get medical attention if irritation persists.

**FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL
1-800-F-A-S-T-M-E-D (327-8633).**

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident, call
CHEMTREC, 1-800-424-9300.**

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

HARMFUL IF ABSORBED THROUGH SKIN. PROLONGED OR FREQUENTLY REPEATED SKIN CONTACT MAY CAUSE ALLERGIC SKIN REACTIONS IN SOME INDIVIDUALS. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist or vapors. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish. Do not contaminate water when cleaning equipment or disposing of equipment wash waters. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Apply this product only as specified on this label. When making applications, care should be used to avoid household pets, particularly fish and reptile pets.

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

PHYSICAL AND CHEMICAL HAZARDS

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

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials, or other influencing factors in the use of the product, which are beyond the control of ZENECA or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold ZENECA and Seller harmless for any claims relating to such factors.

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

In no event shall ZENECA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ZENECA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES, OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE), RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ZENECA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

ZENECA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of ZENECA.

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 landscapes, ornamental gardens or parks, or on lawns or grounds.

This product is restricted for use in the state of New York. Only for sale to, use, and storage by Certified Applicators.

GENERAL INFORMATION: STRUCTURAL AND PERIMETER PEST CONTROL

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. Permitted areas of use include, but are not limited to, industrial buildings, houses, apartment buildings, laboratories, buses, greenhouses (noncommercial), stores, warehouses, vessels, railcars, trucks, trailers, aircraft (cargo and other noncabin areas only), schools, nursing homes, hospitals, restaurants, hotels, 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, DEMAND[®] CS Insecticide can be reapplied at 21-day intervals if necessary. More frequent treatments are limited to spot treatments.

Mixing Instructions

DEMAND CS is intended for dilution 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 (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 DEMAND CS. Close and shake before use in order to ensure proper mixing. Shake or reagituate applicator tank before use if application is interrupted. Mix only amount of treatment volume as required.

A general surface treatment of DEMAND CS may be applied by using a paintbrush or other porous applicator attached to a handle.

Tank Mixing

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

DEMAND CS may be tank mixed with an Insect Growth Regulator (IGR) such as ARCHER® Insect Growth Regulator.

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

Foam Applications

DEMAND 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 arthropods harboring in walls, under slabs, or in other void areas.

Pests	Concentration of Active Ingredient	Dilution Rate
Ants Bedbugs (adult) Bees Boxelder Bugs Carpenter Bees Carpet Beetles Centipedes Cigarette Beetles Clover Mites Cockroaches ¹ Confused Flour Beetles Crickets Earwigs Firebrats Fleas ² Flies Lesser Grain Borers Millipedes Mosquitoes Red Flour Beetles Rice Weevil Saw-toothed Grain Beetles Silverfish Sowbug Spiders Termites (above ground only) Ticks Wasps	0.015 to 0.03%	0.015%: 0.2 fl. oz. (6 ml)/gal. water 0.03%: 0.4 fl. oz. (12 ml)/gal. water
Cockroaches ¹ Crickets ⁶ Flies ⁵ Litter Beetles ³ (adult/immature stages such as Darkling, Hide, and Carrion) Mosquitoes ⁴ Pillbugs Scorpions Spiders ⁶ Spider Mites (Two Spotted, Spruce) Ticks ⁶	0.06%	0.8 fl. oz. (24 ml)/gal. water

¹For cockroaches, the recommended rate for maintenance treatments is 0.015% and for cleanout treatments is 0.03%. In addition, more frequent applications may be necessary on concrete surfaces. For control of SEVERE infestations, use 0.06% rate.

²For outdoor use only and use 0.03% rate.

³For control of LIGHT beetle infestations, use 0.03% rate.

⁴For residual control, use 0.06% rate.

⁵Rates for flies may be increased to 0.06% when environmental conditions are severe and/or populations are high.

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

SPECIFIC USE DIRECTIONS

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

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

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. Periodic applications can be made to maintain protection of treated areas.

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

Boxelder Bugs, Centipedes, Millipedes, Pillbugs, and Sowbugs: Apply around doors and windows and other places where these pests may be found or where they may enter premises. Treat baseboards, storage areas, and other locations. Apply barrier treatments to prevent infestation as described below; also see "OUTDOOR SURFACES 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. For best coverage 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. Do not apply to pasture or cropland and do not allow animals and people access to treated areas until the deposit has dried. Applications can begin in the spring and can continue until frost to control both larvae and adult ticks; also see "OUTDOOR SURFACES USE."

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

Litter Beetles (Darkling, Hide, and Carrion Beetles), and Flies in Animal Housing (Such as Poultry Houses): To control adult Litter Beetles, apply DEMAND CS to walls and floors at cleanout, before reintroduction of animals. This will suppress beetles that escaped earlier treatment and will help delay onset of future infestations. Pay attention to areas where beetles frequently occur, such as walls, supports, cages, stalls, and around feeders. To help control flies, apply a directed application to horizontal surfaces and overhead areas and allow to dry before reintroduction of animals; also see "LIVESTOCK/POULTRY HOUSING STRUCTURES AND PET KENNELS."

Application Within Food-Handling Establishments: (places other than private residences in which exposed food is held, processed, prepared, or served) including, but not limited to, areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing foods, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups), and serving areas. Use as a crack-and-crevice or spot treatment in and around both food and nonfood areas. Apply in small amounts directly into cracks and crevices, using equipment capable of delivering a pin stream of insecticide, in points between different elements of construction, between equipment and floor,

openings leading to voids, and hollow spaces in walls, equipment, and bases. Food contact surfaces and equipment should be cleaned with an effective cleaning compound and rinsed with potable water before using.

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

Authorized by the USDA for use in edible areas of Federally inspected meat, poultry, and egg processing facilities as a crack and crevice treatment.

Application Within Food-Serving Areas (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. Avoid treating 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.

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

Livestock/Poultry Housing Structures and Pet Kennels

Apply as a general surface (including directed sprays) and/or crack-and-crevice treatment. Control is enhanced when interior and exterior perimeter applications are made in and around the livestock, poultry, and pet housing structures. Normal cleaning practices of the structure also must be followed along with applications of DEMAND CS to effectively control the crawling and flying insect pests listed in the table.

For unoccupied areas of livestock barns or housing structures, apply to floors, vertical and overhead surfaces where crawling or flying insect pests are or may be present. Feeders, waterers, and feed carts should be covered 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 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 should 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 to 3 feet up and 2 to 6 feet out from foundation. Maintaining a year-round treatment program will prevent background populations from reaching problem levels.

DO NOT make applications of DEMAND CS in areas where animals 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, pillbugs, spiders, termites (above ground only), ticks, wasps, and other similar 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 fumigation for extensive infestation of drywood termites or other wood-infesting insects.

Barrier Treatments: Applying a continual band of insecticide around a building foundation and around windows, doors, service line entrances, eaves, vents, and other areas can greatly reduce the potential for entry by crawling pests. To facilitate 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 feet wide around the structure (or according to state regulations governing commercial pest control) and upwards

along the foundation to 3 feet 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 Fluid Ounces (ml) of DEMAND CS	Gallons of Water ¹	Area of Coverage (sq. ft.)
0.2 fl. oz. (6 ml)	1 to 5 gallons	800 to 1,600 sq. ft.
0.4 fl. oz. (12 ml)	1 to 5 gallons	800 to 1,600 sq. ft.
0.8 fl. oz. (24 ml)	1 to 5 gallons	800 to 1,600 sq. ft.

¹Application volume may be greater than 5 gallons per 800 to 1,600 square feet if required under heavy vegetative or landscaping materials in order to obtain desired coverage.

EXAMPLES OF DILUTIONS FOR PERIMETER BARRIER APPLICATIONS

Application Volume Gallons of Solution/ 1,000 sq. ft.	Application Rate Fluid Ounces (ml) of DEMAND CS/ 1,000 sq. ft.	Fluid Ounces (ml) of DEMAND CS to Dilute in Water According to Spray Tank Volumes		
		5 gallons	10 gallons	50 gallons
1 gal./1,000 sq. ft.	0.2 fl. oz. (6 ml)	1 fl. oz. (30 ml)	2 fl. oz. (60 ml)	10 fl. oz. (300 ml)
	0.4 fl. oz. (12 ml)	2 fl. oz. (60 ml)	4 fl. oz. (120 ml)	20 fl. oz. (600 ml)
	0.8 fl. oz. (24 ml)	4 fl. oz. (120 ml)	8 fl. oz. (240 ml)	30 fl. oz. (1,200 ml)
2 gal./1,000 sq. ft.	0.2 fl. oz. (6 ml)	0.5 fl. oz. (15 ml)	1 fl. oz. (30 ml)	5 fl. oz. (150 ml)
	0.4 fl. oz. (12 ml)	1 fl. oz. (30 ml)	2 fl. oz. (60 ml)	10 fl. oz. (300 ml)
	0.8 fl. oz. (24 ml)	2 fl. oz. (60 ml)	4 fl. oz. (120 ml)	20 fl. oz. (600 ml)
5 gal./1,000 sq. ft.	0.2 fl. oz. (6 ml)	0.2 fl. oz. (6 ml)	0.4 fl. oz. (12 ml)	2 fl. oz. (60 ml)
	0.4 fl. oz. (12 ml)	0.4 fl. oz. (12 ml)	0.8 fl. oz. (24 ml)	4 fl. oz. (120 ml)
	0.8 fl. oz. (24 ml)	0.8 fl. oz. (24 ml)	1.6 fl. oz. (48 ml)	8 fl. oz. (240 ml)

NOTE: Do not use water-base sprays of DEMAND CS in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard. For best results, thoroughly wash out sprayer and screen with water and detergent before using DEMAND CS. DEMAND CS has not stained or caused damage to painted or varnished surfaces, plastics, fabrics, or other surfaces where water applied alone causes no damage.

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

GENERAL INFORMATION: LAWNS/TURFGRASS AND ORNAMENTALS

DEMAND CS may be used for applications to maintain indoor or outdoor areas where turf and ornamentals are grown such as residential landscaped areas and nonresidential landscapes around institutional, public, commercial, and industrial buildings, parks, recreational areas, and athletic fields.

Applicators must ensure that they are certified in the necessary pesticide certification categories to allow application of DEMAND 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.

General Mixing Instructions

DEMAND 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 DEMAND CS. It is suggested that the water be 5 to 7 pH. Adjust water pH with a buffering agent if necessary. Slowly add DEMAND CS to applicator tank water with maximum agitation. Close and shake or reagitator applicator tank before use if application is interrupted. Make up only amount of treatment volume as required.

Tank Mixing

DEMAND 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, DEMAND CS should be added last. Fill tank to desired volume and continue to agitate while making applications. If mixed with EC formulations, use within 24 hours.

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

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 aerial application.
- Use of this pesticide adjacent to water may affect aquatic organisms. To protect these organisms, do not apply this pesticide within 25 feet 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 miles per hour or greater.
- In the state of New York, do not apply within 100 feet of coastal marshes or streams that drain into coastal marshes.

Use	Pest	Amount of DEMAND CS
ORNAMENTALS IN 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)	Ants (including Imported Fire Ants)	1.5 to 5 fl. oz./100 gals. or 44 to 148 ml/100 gals.
	Armyworms	
	Azalea Caterpillar	
	Aphids	
	Bagworms	
	Black Vine Weevil (adult)	
	Boxelder Bugs	
	Budworms	
	California Oakworm	
	Cankerworms	
	Cockroaches	
	Crickets	
	Cutworms	
	Eastern Tent Caterpillar	
	Elm Leaf Beetles	
	European Sawfly	
	Fall Webworm	
	Flea Beetles	
	Forest Tent Caterpillar	
	Gypsy Moth Larvae	
	Japanese Beetles (adult)	
	June Beetles (adult)	
	Lace Bugs	
	Leaf-feeding Caterpillars	
	Leafhoppers	
	Leafminers (adult)	
	Leaf Rollers	
	Leaf Skeletonizers	
	Midges	
	Mosquitoes	
	Oleander Moth Larvae	
	Pillbug	
	Pine Sawfly	
	Pine Shoot Beetles	
	Pinetip Moths	
	Plant Bugs	
	Root Weevil	
	Sawfly	
	Scale Insects (crawler)	
	Spiders	
	Spittlebugs	
	Striped Beetles	
Striped Oakworm		
Thrips		
Tip Moth		
Tussock Moth Larvae		
Wasps		
Broadmite	3 to 5 fl. oz./100 gals. or 88 to 148 ml/100 gals.	
Brown Softscale		
California Redscale (crawler)		
Clover Mites		
Mealybugs		
Pineneedlescale (crawler)		
Spider Mites		
Whiteflies		

Application to ornamentals should be started prior to the establishment of high insect pest populations. Make reapplications as necessary 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.

Do not apply more than 0.36 pound of the active ingredient (52.4 fluid ounces of concentrate) per acre per year.

Good spray coverage is necessary to provide the most effective level of control. Addition of a spreader-sticker at recommended rates may enhance the control of insects on certain species of ornamentals having waxy, hard to wet foliage.

For spot treatments, use 0.5 fluid ounce DEMAND CS per 1 to 2½ gallons of water.

Consult your state university or local Cooperative Extension Service office for specific pest control application timing in your area.

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

Scale: Thoroughly cover the plant with DEMAND CS spray, including trunks, stems, twigs and foliage for control of scale insects.

Bagworm: Apply DEMAND CS when bagworm larvae begin to hatch. Spray directly on the larvae. Application is the most effective when the larvae are young.

DEMAND CS MIXING CHART FOR ORNAMENTAL INSECT PEST CONTROL (DEMAND CS to Add Per Spray Tank)

Rate of DEMAND CS	25 Gallons	50 Gallons	100 Gallons	200 Gallons	300 Gallons
1.5 oz.	0.4 oz.	0.8 oz.	1.5 oz.	3.0 oz.	4.5 oz.
3.0 oz.	0.8 oz.	1.5 oz.	3.0 oz.	6.0 oz.	9.0 oz.
5.0 oz.	1.3 oz.	2.5 oz.	5.0 oz.	10.0 oz.	15.0 oz.

Use	Pest	Amount of DEMAND CS
LAWNS/ TURFGRASS AROUND RESIDENTIAL, INSTITUTIONAL, PUBLIC, COMMERCIAL AND INDUSTRIAL BUILDINGS, PARKS, RECREATIONAL AREAS, AND ATHLETIC FIELDS	Ants (including Imported Fire Ants)	3.4 to 7 ml/1,000 sq. ft. or 5 to 10 fl. oz./acre
	Armyworms	
	Centipede	
LAWNS/ TURFGRASS AROUND RESIDENTIAL, INSTITUTIONAL, PUBLIC, COMMERCIAL AND INDUSTRIAL BUILDINGS, PARKS, RECREATIONAL AREAS, AND ATHLETIC FIELDS	Crickets	
	Cutworms	
	Earwigs	
	Fleas (adult)	
	Grasshopper	
	Japanese Beetle (adult)	
	Millipedes	
	Mites	
	Mosquitoes (adult)	
	Pillbugs	
	Sod Webworms	
	Sow Bugs	
Ticks (including species which transmit Lyme disease)		
LAWNS/ TURFGRASS AROUND RESIDENTIAL, INSTITUTIONAL, PUBLIC, COMMERCIAL AND INDUSTRIAL BUILDINGS, PARKS, RECREATIONAL AREAS, AND ATHLETIC FIELDS	Bluegrass Billbug (adult)	7 ml/1,000 sq. ft. or 10 fl. oz./acre
	Black Turfgrass Ataenius (adult)	
	Chiggers	
	Fleas (adult)	
	Grubs (suppression)	
	Hyperodes Weevil (adult)	
LAWNS/ TURFGRASS AROUND RESIDENTIAL, INSTITUTIONAL, PUBLIC, COMMERCIAL AND INDUSTRIAL BUILDINGS, PARKS, RECREATIONAL AREAS, AND ATHLETIC FIELDS	Mole Cricket (nymphs and young adult)	
	Mole Crickets (mature adult)	14 ml/1,000 sq. ft. or 20 fl. oz./acre
LAWNS/ TURFGRASS AROUND RESIDENTIAL, INSTITUTIONAL, PUBLIC, COMMERCIAL AND INDUSTRIAL BUILDINGS, PARKS, RECREATIONAL AREAS, AND ATHLETIC FIELDS	Chinch Bugs (Not for use on mature adult Mole Crickets and Chinch Bugs in New York state.)	

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.

Apply at 7-day intervals if retreatment is necessary. More frequent treatments should be limited to spot treatments.

Do not apply more than 0.36 pounds of active ingredient (52.4 fluid ounces of concentrate) per acre per year.

For spot treatments, use 0.5 fluid ounce of DEMAND CS per 1 to 2½ gallons of water.

Do not apply when turfgrass is waterlogged or when soils are saturated with water. (i.e., will not accept irrigation.)

KEEP CHILDREN AND PETS OFF TREATED AREAS UNTIL SPRAY HAS DRIED FOLLOWING THE APPLICATION.

Surface Insect Control (Armyworm, Cutworms, Fleas, etc.): For best results, apply DEMAND CS at recommended rates in 2 to 5 gallons of water per 1,000 square feet. 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 to 24 hours for optimum control of surface-feeding insect pests.

Thatch Inhabiting Insect Control (Chinch Bugs, Billbugs, etc.): For best results, apply DEMAND CS at recommended rates in 2 to 10 gallons of water per 1,000 square feet. The use of a nonionic wetting agent, penetrant or similar adjuvant is recommended at label rates. Lightly irrigate after application with up to ½ inch of water to move the DEMAND CS into the thatch layer. If irrigation is not available, then use high water application rates for optimum results.

Subsurface Insect Control (Mole Crickets, Grubs, etc.): For best results, apply DEMAND CS at recommended rates in 4 to 10 gallons of water per 1,000 square feet. The use of a nonionic wetting agent, penetrant or similar adjuvant is strongly recommended following label rates. Use the highest water application rates possible with your sprayer. Apply DEMAND CS to turf wet with dew, rain, or irrigation. Water-in immediately after application with ¼ to ½ inch of water for optimum results.

Fire Ant Control: Treat individual mounds with a drench application using a watering can. Use 0.5 fluid ounce of DEMAND CS per 2.5 gallons of water. Thoroughly soak each mound and a 3 foot 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. For best results, apply in early morning or late evening hours. Make additional treatments as needed.

Mosquito Control: Apply as a general spray around landscape plantings, turf, and building foundations to control mosquitoes. For best results, apply DEMAND CS at recommended rates in 2 to 5 gallons of water per 1,000 square feet.

DEMAND CS MIXING CHART FOR TURF INSECT PEST CONTROL
(DEMAND CS to Add per 100 Gallon Spray Tank)

Rate of DEMAND CS	Application Rate per 1,000 Square Feet of Turf				
	2 Gal.	4 Gal.	6 Gal.	8 Gal.	10 Gal.
5 oz./acre	5.7 oz.	2.9 oz.	1.9 oz.	1.4 oz.	1.2 oz.
10 oz./acre	11.5 oz.	5.7 oz.	3.8 oz.	2.9 oz.	2.3 oz.
20 oz./acre	23.0 oz.	11.5 oz.	7.7 oz.	5.7 oz.	4.6 oz.

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

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

STORAGE: Keep container closed when not in use. Do not store near food or feed. Shake well before use. Protect from freezing. In case of spill or leak on floor or paved surfaces, soak up with sand, earth, or synthetic absorbent. Remove to chemical waste storage area until proper disposal can be made.

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

CONTAINER DISPOSAL: Triple rinse (or equivalent). Completely empty container into application equipment; then offer for recycling or reconditioning, or puncture and dispose of empty container in a sanitary landfill, by incineration, or by other procedures approved by State and local authorities.

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Actisol® is a trademark of Roussel-Uclaf.

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This is a specimen label and may be inaccurate or out of date. It is intended as a guide in providing general information regarding use of this product. Always read and follow the EPA approved label on the product container.

For current information, contact ZENECA Professional Products at 1-888-617-7690.

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Active Ingredient Made in UK; Packaged in U.S.A.

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