

# D-FENSE™ SC

Insecticide



Provides Control of Listed Insect/Pests in and around the Home. For Insect Control on Commercial and Residential Turf and Landscape Ornamental Plants. For crack and crevice and spot applications in homes, hotels, schools and food handling establishments. Controls ants, bedbugs, cockroaches, fleas, flies, silverfish, spiders and many other listed pests. Mattress application for bedbugs and lice. Broadcast spray for lawns and turfgrass to control fleas, ticks and other listed insects. Concentrated suspension of micro-crystals Long lasting residual. For use on Paints, Plastics, Fabrics and other surfaces. Kills crawling and flying insects when exposed to treated surfaces. Protects Stored Grains and seeds against damage from Indian Meal Moth, Saw-Toothed Grain Beetle, Red Flour Beetle, Rice Weevil, Maize Weevil, and many other listed pests. Agitate Well.

**ACTIVE INGREDIENT:**

*Deltamethrin .....	4.75%
<b>OTHER INGREDIENTS:</b> .....	<u>95.25%</u>
<b>TOTAL</b> .....	<b>100.00%</b>

\*Contains 0.42 lb deltamethrin per gallon.

**KEEP OUT OF REACH OF CHILDREN**

## **CAUTION**

**PRECAUCION AL USARIO:** Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente. **TO THE USER:** If you cannot read English, do not use this product until the label has been fully explained to you.)

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

Reg. No. 53883-276

EPA Est. No. 53883-TX-002

**NET CONTENTS: 16 FL. OZ. (1 PT.)**

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ADAMA

Manufactured by:

**Control Solutions Inc.**

A member of Adama

Consumer and Professional Solutions  
5903 Genoa-Red Bluff, Pasadena, TX 77507

EPA 040314/REV A

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS & DOMESTIC ANIMALS  
CAUTION**

Harmful if inhaled. Avoid breathing vapor or spray mist. Contact with product may result in transient tingling and reddening of the skin. Remove contaminated clothing and wash before reuse.

<b>FIRST AID</b>	
<b>If Inhaled</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>HOT LINE NUMBER</b>	
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® (866) 897-8050 for emergency medical treatment information.	

**Environmental Hazards**

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

This pesticide is highly toxic to bees exposed to direct treatment. Do not apply or allow it to drift to crops or weeds on which bees are actively foraging.

### **Physical and Chemical Hazards**

Do not use water-based sprays of Delta 4.75% SC in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard.

### **DIRECTIONS FOR USE**

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

Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

### **PRODUCT INFORMATION**

Delta 4.75% SC is a suspension concentrate insecticide for use both indoors and outdoors for effective knockdown and long residual control of listed pests. Apply in and around buildings and structures, and on established landscape ornamentals around residential and commercial properties.

### Dilutions Rates

<b>AI Concentration</b>	<b>Delta 4.75% diluted to One Gallon of Water</b>	<b>When to Use</b>
0.01%	0.25 fl. oz. (7.5 mL)	This rate is recommended for maintenance treatments.
0.03%	0.75 fl. oz. (22.7 mL)	This rate is recommended for initial treatment or clean-out treatments.
0.06%	1.5 fl. oz. (45.4 mL)	This rate is recommended for severe pest infestations or when longer control is desired.

### **Mixing Instructions**

Mix Delta 4.75% SC with water and apply using a hand pressurized or power operated sprayer, such as Actisol or similar equipment. For outdoor broadcast application, apply as a coarse spray or with conventional hydraulic boom-type sprayer or other suitable equipment. Shake container well before using.

### **Dilution Instructions:**

- add half the water to the spray tank;
- add Delta 4.75% SC as specified in the appropriate application rates table;
- agitate well;
- add the remaining water slowly to avoid excess foam;
- thoroughly agitate the sprayer before using to insure proper suspension.

**Note:** If spraying is stopped when using a back-pack or hand-held spray equipment, reinvert sprayer before use. If spray screens are used, they must be 50 mesh or larger. Dilute Delta 4.75% SC only with water. Only prepare the spray solution when ready to make applications.

**Tank Mixing:** Tank mix Delta 4.75% SC with other currently registered pesticides unless prohibited by the product label. To check for product compatibility, a small volume mixing test with other products is recommended. Follow all restrictions and precautions specified on the labels of these tank-mix products.

Treatments may be made at 21-day intervals or as necessary to maintain adequate control.

## **PEST CONTROL INDOORS**

Delta 4.75% SC may be applied in and around residential and non-residential buildings including residential kitchens and food/feed handling establishments. This includes schools, factories, warehouses, hospitals, food processing facilities (non-food areas), and modes of transportation.

Mix Delta 4.75% SC with water and apply indoors as a crack and crevice application, spot or general-surface treatment, or void (spray, mist, foam) injections with hand pressurized or power operated sprayers or other suitable equipment.

**For residential buildings and structures** - apply only as a crack and crevice or spot treatment.

### **Pests Controlled**

Ants	Earwigs	Multi-colored
Bed bugs	Elm leaf beetles	Asian lady
Bird mites	Firebrats	beetles
Blue/green bottle flies	Fleas	Pantry pests, beetles & moths
Boxelder bugs	Flesh flies	Phorid flies
Carpet beetles	Flies	Pillbugs
Centipedes	Fruit flies	Sciarid flies
Clothes moths	Gnats	(fungus gnats)
Clover mites	Hide beetles	Scorpions
Cluster flies	Hornets	Silverfish
Cockroaches	House flies	Sowbugs
Crickets	Leather beetles	Spiders
Darkling beetles	Midges	Ticks
Dermestids	Millipedes	Wasps
	Moths	Yellowjackets

Approved use sites include the food/feed and non-food/non-feed areas of:

Aircraft (cargo only)	Industrial buildings
Apartment buildings	Installations
Bakeries	Kitchens
Bottling facilities	Laboratories
Breweries	Mausoleums
Buses	Meat, poultry & egg
Cafeterias	processing &
Candy plants	packaging plants
Canneries	Mobile & motor homes
Dairy product	Nursing homes
processing plants	Offices
Food manufacturing	Railcars
plants	Restaurants
Food processing plants	Schools
Food service	Ships & vessels
establishments	Trailers
Granaries & grain mills	Trucks
Hospitals	Warehouses
Hotels	Wineries
Houses	

### **Where to Apply**

This product can be applied to walls, floors, ceilings, in and around cabinets, between, behind and beneath equipment and appliances, around floor drains, window and door frames and around plumbing, sinks and other possible pest harborage sites.

Treat where pests have been seen or found, or can find shelter. Treat areas where pests normally feed or hide, such as baseboards, corners, around water pipes, behind and under refrigerators, cabinets, sinks and stoves.

Treat entry points around water pipes, utility penetrations, windows, doors, vents, and eaves.

Void applications can be made behind veneers, piers, and chimney bases, into rubble foundations, into block voids and structural voids, wall voids, under slabs, stoops, porches or to the soil in crawlspaces, and other similar voids.

Spot treat floors, floor coverings, carpets, or rugs for flea and tick control; DO NOT treat entire floor area.

#### **Use Rates:**

- For a 0.01% a.i. concentrate, use 0.25 fl. oz. Delta 4.75% SC (7.5 mL) per gallon of water
- For a 0.03% ai concentration, use 0.75 fl. oz. of Delta 4.75% SC (22.7 mL) per gallon of water.
- For a 0.06% a.i. concentration, use 1.50 fl. oz. of Delta 4.75% SC (45.4 mL) per gallon of water.

#### **How to Apply**

**Spot Treatment:** Apply Delta 4.75% SC using a low pressure system (do not exceed 50 psi at nozzle) with a fan-type nozzle to uniformly apply spot treatments in and around cupboards, and between, beneath and behind equipment or appliances.

In the home, all food processing surfaces and utensils must be covered before treatment or thoroughly washed following treatment. Cover exposed food or remove from area being treated.

**Spray, Mist or Foam, Crack and Crevice, or Void Applications:** Apply Delta 4.75% SC spray, mist or foam directly into cracks and crevice or voids where pests or their nests are found.

- **Spray:** Apply Delta 4.75% SC Spray Mixture to cracks and crevices in and around baseboards, floors, walls, appliances, areas around water and sewer pipes, and other voids with a low pressure system (do not exceed 50 psi at nozzle tip) using a pinpoint or variable pattern nozzle.



- **Mist:** Use appropriate mist generating equipment. Do not allow mist to drift out of void spaces into commonly occupied areas of structure.
- **Foam:** Use foam to treat structural voids and control pests in walls, under slabs, or other void areas. Using appropriate foam generating equipment, mix dilution with manufacturer's specified volume of foaming agent and apply sufficient volume of foam.

### **When to Apply**

Apply when pests are seen or found. Treat areas that insects inhabit or where they are normally found. Use 0.25 to 1.5 fluid ounces of Delta 4.75% SC per gallon of water and apply to adequately cover 1000 square feet. Under conditions of severe pest infestation, when quick knockdown and/or longer residual control is desired, use 1.5 ounces of 0.06% Delta 4.75% SC per 1,000 sq. ft.

Treatments may be made at 21-day intervals or as necessary to maintain adequate control.

### **Restrictions:**

- Do not apply broadcast treatments to floors or floor coverings.
- Do not apply as a space spray.
- Remove or tightly cover fish tanks and disconnect aerators during application.
- Keep people and pets away from sites of application until treated area has dried.
- When treating areas directly over your head, wear eye protection (safety glasses, goggles, or face shield) and dust/mist mask or respirator.

<b>Application for Indoor Pests</b>	
<b>Pests</b>	<b>Use Instructions</b>
Cockroaches, Ants, Crickets, Silverfish, Firebrats, Centipedes, Millipedes, Clothes Moths, Earwigs, Pillbugs, Sowbugs, Scorpions and Spiders	Apply as a coarse. Low pressure (do not exceed 50 psi at nozzle tip) spot or crack and crevice spray to areas that these pests found. Pay particular attention to dark corners or rooms and closets; floor drains; cracks and crevices in walls; along and behind baseboards; beneath and behind sinks, stoves, refrigerators, and cabinets; around plumbing and other utility installations; doors, windows, and attics and crawl spaces. Spot applications may be made to floor surfaces along baseboards and around air ducts. Let surfaces dry before allowing people or pets to contact surfaces.
Pantry Pests	To kill adult and accessible immature stages of insects such as lesser grain borers, grain weevils, flour beetles, saw-toothed grain beetles, cigarette beetles, merchant grain beetles, Angoumois grain moths, Mediterranean flour moths, Indian meal moths, grain mites and spider mites: Make applications to cupboards, shelving and storage areas. Remove all foodstuffs, all utensils, shelf paper, and other objects before spraying. Allow all treated surfaces to dry before replacing foodstuffs, utensils or other items. Any foodstuff accidentally contaminated with any spray solution must be discarded.

***(continued)***

<b>Application for Indoor Pests</b>	
<b>Pests</b>	<b>Use Instructions</b>
Crawling and Flying Insect Pests: Flies, Gnats, Midges, Mosquitoes, Cockroaches, Ants, and Silverfish Ants, including Pharaoh's ant	<p>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 carpools, garages, storage sheds, unoccupied barns, stables, or pet kennels.</p> <p>Apply to trails, around doors and windows and other areas where ants inhabit or enter premises.</p>

*(continued)*

<b>Application for Indoor Pests</b>	
<b>Pests</b>	<b>Use Instructions</b>
Bed Bugs and Lice	<p>Spray bed bugs and eggs directly wherever possible following site directions below. For infested mattresses, remove linens and wash before reuse. Apply to mattresses, especially tufts, folds, and edges until moist. Allow to dry before remaking bed.</p> <p>Apply to bedsprings, box springs, and the interior of bed frames or headboards, including all cracks and crevices.</p> <p>When bed bugs are found in upholstered furniture, apply only to the infested tufts, seams, folds and edges, but do not make broadcast applications to flat surfaces where prolonged human contact will occur. If bugs heavily infest furniture (inside cushions and/or batting) apply a labeled insecticide dust or consider fumigation.</p> <p>Apply as a crack and crevice treatment to all baseboards, moldings, beneath floor coverings and carpets, closets, shelves, curtains, furniture and picture frames that may provide harborage to bed bugs.</p>

***(continued)***

<b>Application for Indoor Pests</b>	
<b>Pests</b>	<b>Use Instructions</b>
Carper Beetles, Fleas and Ticks	<p>A total integrated pest management program is recommended. It is suggested that infested areas be thoroughly vacuumed prior to treatment. These areas include all carpet, upholstered furniture, baseboards, and other indoor areas frequented by pets. The vacuum cleaner bag should be discarded in an outdoor trash container upon completion. Pet bedding should be cleaned or replaced.</p> <p>Apply this product as a uniform, coarse low-pressure (do not exceed 50 psi at nozzle tip) spot or crack and crevice treatment to areas where these pests normally inhabit. Care should be taken to limit spot treatments to pet bedding and its surrounding area, infested floor coverings and pest habitats.</p> <p>DO NOT treat entire area of floor, carpet or floor coverings. When these pests are found in upholstered furniture, apply only to the infested tufts, seams, folds and edges, but do not make broadcast applications to flat surfaces where prolonged human contact will occur. This product can also be applied out-of-doors for flea and tick control (see directions in Outdoor/Perimeter Pests).</p> <p>Delta 4.75% SC can be used with an Insect Growth Regulator (IGR). For effective control of fleas, treatment directly to the pet with an EPA registered product for such use, as well as treating outside areas pets frequent may be required. DO NOT treat pets with this product.</p>

***(continued)***

<b>Application for Indoor Pests</b>	
<b>Pests</b>	<b>Use Instructions</b>
Pet Kennels	<p>For residual control of crawling and flying insects in and around these structures, apply as a general surface and/or crack and crevice spray.</p> <p>Optimal control results if facilities to be treated are clean and if the exterior perimeter is concurrently treated with this product. Apply only to areas of facility where animals are not present.</p> <p>Allow spray to dry before allowing re-entry of animals into treated areas. Do not apply to animal feed or watering equipment. Do NOT treat pets with this product.</p> <p>Limit spot treatment to pet beds and infested floor coverings.</p>

***(continued)***

## **FOOD/FEED HANDLING ESTABLISHMENTS**

Applications are permitted in food/feed and non-food/non-feed areas of food/feed handling and processing establishments as a general surface, spot or crack and crevice treatment to control of labeled pests.

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

**Non-Food/Non-Feed Areas:** Areas include garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, mop closets and storage (after packaging, canning or bottling). Treat any area that insects are observed in or where insects may enter.

**General Surface Applications:** Before application cover or remove all food/feed processing and/or handling equipment. After application, wash all equipment, benches, shelving and other surfaces that food/feed will contact in food/feed processing plants, cafeterias and similar facilities. Clean food/feed handling or processing equipment and rinse well with clean, fresh water. After application in bakeries, clean all food contact surfaces thoroughly with appropriate equipment.

### **Restrictions:**

- Do not use this application method in the food/feed handling areas of the facility when the facility is in operation or foods/feeds are exposed.

- Do not apply to food/feed products.
- Spot or Crack & Crevice Applications: Except in federally inspected meat and poultry plants, spot or crack and crevice applications may be made while the facility is in operation provided exposed food is covered or removed from area being treated prior to application.
- Restrictions:
- Application is prohibited in Federally inspected meat and poultry plants while such facility is in operation.
- Do not apply to food or food-handling surfaces.
- In the home, do not allow spray to contact food/feed surfaces. If it does, clean surfaces with soap and water.

### **PEST CONTROL OUTDOORS**

Apply Delta 4.75% SC as a perimeter treatment, residual spray or broadcast application to surfaces of buildings, lawns, grounds and ornamental plantings.

#### **Pests Controlled**

Ants	Elm leaf beetles	Multi-colored
Blue or green	Fire ants	Asian lady
bottle flies	Firebrats	beetle
Boxelder bugs	Fleas	Pillbugs
Brown	Flesh flies	Scorpions
marmorated	Flies	Silverfish
stink bug	Gnats	Sowbugs
Carpenter ants	Ground beetles	Spiders
Centipedes	Hornets	Springtails
Cockroaches	House flies	Stable flies
Cluster flies	Midges	Ticks
Clover mites	Millipedes	Wasps
Crickets	Mosquitoes	Yellow jackets
Earwigs	Moths	



### **Where to Apply**

Apply as a perimeter treatment or residual spray around residential and non-residential settings. Treatments should begin at the first sighting of pests.

**Residual Spray:** Apply Delta 4.75% SC to surfaces on building exteriors, porches, patios and other structures, around door and windows, eaves and attic vents, utility entry points, soffit areas and other exterior openings (including foundation cracks or drilled holes) where pests enter the structure or where they have been seen or found, or can find shelter.

**Perimeter Treatments:** For best results, apply Delta 4.75% SC to areas where pests are seen and may find entrance. Treat the outside of the structure, including walls (to a height of 2 to 3 feet), around door and window frames, and soffits where pests are active or may enter or hide. Treat the soil, turf, or other ground covering adjacent to the structure (in a band up to 10 feet wide) where pests are seen, have been found, or can find shelter. In ant management programs, apply to flower, shrub or ornamental plant beds where ants may be nesting, find food or forage.

### **Restrictions;**

1. Do not water the treated area to the point of run-off
2. Do not make applications during rain.
3. Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack and crevice treatment. During application, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters, or surface waters.
4. All outdoor applications, if permitted elsewhere on this label, must be limited to spot or crack and crevice treatments only, except for the following permitted uses:
  - a) Applications to soil or vegetation, as listed on this label, around structures;

- b) Applications to lawns, turf, and other vegetation, as listed on this label;
- c) Applications to the side of a building, up to a maximum height of 3 feet above grade;
- d) Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;
- e) Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width;
- f) 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.

Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.

**Use Rates:**

- For a 0.01% dilution, use 0.25 fl. oz. Delta 4.75% SC (7.5 mL) per gallon of water
- For a 0.03% dilution, use 0.75 fl. oz. of Delta 4.75% SC (22.7 mL) per gallon of water.
- For a 0.06% dilution, use 1.50 fl. oz. of Delta 4.75% SC (45.4 mL) per gallon of water.

**How to Apply:**

Apply as a coarse low pressure (do not exceed 50 psi at nozzle tip) spray at the rate of 0.25 to 1.5 fluid ounces of

this product per 1,000 square feet of surfaces. Apply in a sufficient volume of water to provide adequate coverage but do not allow run-off to occur.

**High volume applications using power sprayers:**

You must adjust the rate of product dilution to ensure the correct amount of the product (see Use Rate section above) is applied per 1,000 square feet of treated surface. For example, mixing 12.5 fluid ounces of this product in a 50 gallon tank, while using an application volume of 3.0 gallons per 1,000 square feet, will apply 0.75 fluid ounces of this product per 1,000 square feet. The table below gives examples of end use dilutions for typical power spraying application volumes.

**DILUTION RATE CHART**

<b>Amount of Product</b>		<b>Application Volume Gallons of Water</b>	<b>Concentration (%AI) In Spray Solution</b>
<b>Fluid Ounces</b>	<b>Milliliter</b>		
0.25	7.5	1	0.01%
		2	0.005%
		3	0.0033%
		4	0.0025%
		5	0.002%
0.75	22.7	1	0.03%
		2	0.015%
		3	0.01%
		4	0.0075%
		5	0.006%
1.5	45.4	1	0.06%
		2	0.03%
		3	0.02%
		4	0.15%
		5	0.12%

**MIXING DIRECTIONS FOR DELTA 4.75% SC -OUTDOOR PERIMETER APPLICATION**

<b>I. DELTA 4.75% SC DILUTION (0.25 oz./1000 sq. ft.) - (Based on one home being 1,000 sq. ft.)</b>												
<b>Tank Size</b>	<b>15 Gallon</b>			<b>25 Gallon</b>			<b>50 Gallon</b>			<b>100 Gallon</b>		
<b>Finished Spray: Gallons Per 1000 sq. ft</b>	<b>Delta 4.75% SC Per Tank (fl. oz.)</b>	<b>Homes Per Tank*</b>	<b>Delta 4.75% SC Per Tank (fl. oz.)</b>	<b>Homes Per Tank*</b>	<b>Delta 4.75% SC Per Tank (fl. oz.)</b>	<b>Homes Per Tank*</b>	<b>Delta 4.75% SC Per Tank (fl. oz.)</b>	<b>Homes Per Tank*</b>	<b>Delta 4.75% SC Per Tank (fl. oz.)</b>	<b>Homes Per Tank*</b>	<b>Homes Per Tank*</b>	
1	3.75	15	6.25	25	12.50	50	25.00	100				
3	1.25	5	2.08	8	4.17	16	8.33	33				
5	0.75	3	1.25	5	2.50	10	5.00	20				
10	0.37	1.5	0.63	2.5	1.25	5	2.50	10				

\*Based on Delta 4.75% SC applied at 0.25 ounces per 1,000 square feet treated per home or structure.

*(continued)*

**MIXING DIRECTIONS FOR DELTA 4.75% SC -OUTDOOR PERIMETER APPLICATION**

<b>II. DELTA 4.75% SC DILUTION (1.00 oz./1000 sq. ft.)</b>									
<b>Tank Size</b>		<b>15 Gallon</b>		<b>25 Gallon</b>		<b>50 Gallon</b>		<b>100 Gallon</b>	
<b>Finished Spray: Gallons Per 1000 sq. ft.</b>	<b>Delta 4.75% SC Per Tank (fl. oz.)</b>	<b>Homes Per Tank*</b>	<b>Delta 4.75% SC Per Tank (fl. oz.)</b>	<b>Homes Per Tank*</b>	<b>Delta 4.75% SC Per Tank (fl. oz.)</b>	<b>Homes Per Tank*</b>	<b>Delta 4.75% SC Per Tank (fl. oz.)</b>	<b>Homes Per Tank*</b>	<b>Homes Per Tank*</b>
1	15.0	15	25.0	25	50	50	100.0	100	100
3	5.0	5	8.4	8.3	16.70	16.7	33.3	33.3	33.3
5	3.0	3	5.0	5	10.0	10	20.0	20	20
10	1.5	1.5	2.5	2.5	5.0	5	10.0	10	10

\*Based on Delta 4.75% SC applied at 1.00 ounce per 1,000 square feet treated per home or structure.

<b>Application For Outdoor/Perimeter Pests</b>	
<b>Pests</b>	<b>Use Instructions</b>
Ants, roaches and other listed crawling pests	<p>Apply as a residual spray and/or perimeter treatment around the infested structure as described above.</p> <p>Locate and treat ant nests if possible. Follow trails of foraging worker ants and inspect for likely nest sites. If ants are nesting in soil, drench or inject the nest and surrounding soil.</p> <p>Foliar applications to landscape ornamentals will control aphids, scale insects, and other plant-sucking insects and limit the production of honeydew (an important food source for ant populations). Apply a light mist of the dilute spray, and do not allow excess run-off. Treat thoroughly for good coverage, including the underside of leaves.</p> <p>It is recommended to remove or prune away any shrubbery, bushes, or tree branches touching the structure. Vegetation touching the structure may offer a route of entry for ants into the structure, allowing ants to avoid contact with the treatment.</p>

**(continued)**

<b>Application For Outdoor/Perimeter Pests</b>	
<p>Occasional invaders including multi-colored Asian lady beetle, elm leaf beetle, boxelder bug, and brown marmorated stinkbug.</p>	<p>Apply directly to insects that have congregated around doors, windows and similar areas where they may enter the structure. Apply a perimeter treatment as described above.</p> <p>For best results, treat trees and shrubs infested with boxelder bugs, elm leaf beetles, and other occasional invading species early in the season. [Tree spraying may require ornamental license - check with your local regulator].</p>
<p>Fleas and Ticks (including ticks that may transmit Rocky Mountain Spotted Fever)</p>	<p>Apply as a coarse wet spray to areas where fleas and ticks are most likely to be found, such as dog houses, kennels, runways, along paths or trails, under plants, shrubs, bushes, trees, or other shaded, moist areas where pests may be found.</p> <p>Treat the entire area where these pests could be present. Fleas and ticks may be re-introduced from surrounding areas by host animals.</p>
<p>Mosquitoes</p>	<p>Treat with spray or mist around landscape plants, turf and ground cover, under decks, around building foundations and other places where mosquitoes may rest.</p>

**(continued)**



<b>Application For Outdoor/Perimeter Pests</b>	
Fire Ants	<p>Apply as a mound drench. Dilute 1.5 oz per one gallon of water. Gently sprinkle 1 to 2 gallons of the diluted insecticide over the surface of each mound and surrounding area to a 2-foot diameter.</p> <p>For best results, apply in cool weather, 65 to 80°F or in early morning or late evening hours. Treat new mounds as they appear.</p>
Scorpions	<p>Treat areas where scorpions may hide. Treat known or suspected harborage on and around exterior walls. Apply spot treatments into cracks, crevices, weep holes or other access points into hollow block walls or masonry veneer. Spray around and beneath stones and along rocky areas.</p> <p>Scorpions will often harbor beneath the bark on trees, so inspect these areas and treat as required. When possible, remove piles of debris and building materials near the exterior wall that can harbor the pests. Apply a perimeter treatment to the exterior walls and adjacent soil. You may treat around piles of firewood, but do not treat firewood with this product.</p>

***(continued)***

<b>Application For Outdoor/Perimeter Pests</b>	
<p>Hornets, wasps, and yellow jackets</p>	<p>Make a pin stream application directly to hornet or yellow jacket nests. To reduce stinging threat, make applications in the evening when the insects are inside the nest. For paper wasps, use a pin stream or fan spray and apply over surface of exposed nest.</p> <p>Remove and destroy treated nests to prevent emergence of newly emerged insects. If removal is not possible, retreat nests as needed.</p>
<p>Centipedes, millipedes, pillbugs, sow bugs, springtails.</p>	<p>Apply perimeter treatment to reduce the number of insects entering the structure. Thoroughly treat mulched areas. Correcting moisture problems around the structure will reduce pest pressure.</p>
<p>House flies and Cluster flies</p>	<p>Apply low pressure (do not exceed 50 psi at nozzle tip) mist or spray to outside of surfaces of buildings, porches, patios, garages, fences, and other areas where house flies rest.</p> <p>Cluster flies: Treat in late summer or fall, just before cluster flies begin looking for winter shelter. Spray siding, eaves, around windows and doors, and window screens. To help reduce infestations, treat cracks and crevices, attics and other indoor winter hiding places.</p>

## **WOOD INFESTING PESTS**

Apply Delta 4.75% SC as a perimeter treatment, residual spray or broadcast application to surfaces of buildings, lawns, grounds and ornamental plantings.

### **Pests Controlled**

Drywood termites	Beetles (con't)
Beetles	- wharf borers
- Lyctid or powder post	- Ambrosia beetles
- Anobiid or deathwatch	- bark beetles
- False powderpost	Carpenter ants
- old house borer	Carpenter bees

For treatment of wood infested with, or subject to infestation by, wood-infesting pests. Apply where pests have been seen or found, or can find shelter. Not for structural protection.

### **Use Rates:**

For a 0.06% dilution, use 1.50 fl. oz. of Delta 4.75% SC (45.4 mL) per gallon of water.

### **How to Apply**

Apply spray, mist, or foam as described below in the application section. Treatment dilutions may also be applied to wood surfaces by paint brush or roller. Do not contact treated surfaces until dry.

Apply when pests are seen or found. Treatments may be applied at 21-day intervals, or as necessary to maintain adequate control.

### **Foam Applications**

This product can be converted to foam and used to treat structural voids to control wood-infesting pests in walls, under slabs, within masonry voids, or in other void areas. Mix end-use dilution with manufacturer's specified volume of foaming agent.

<b>Application For Wood-Infesting Pests</b>	
<b>Pests</b>	<b>Use Instructions</b>
Drywood termites & wood-infesting beetles (Not for Structural Protection)	<p><b>Galleries and structural voids:</b> Treat by applying sprays, mists, or foams. Locate galleries by using visual signs (frass or pellets, blistered wood, emergence or clean out holes), the presence of live insects, mechanical sounding techniques, or listening devices (e.g., stethoscopes, acoustic emission detectors). Penetrate the gallery system by drilling holes to receive the injector tip or treatment tool. Distribute drill holes to adequately cover the gallery system. Apply as a low pressure (do not exceed 50 psi at nozzle tip) spray, or by misting or, where appropriate, by foaming.</p> <ul style="list-style-type: none"> <li>• Do not treat to the point where runoff is detected from adjacent holes.</li> <li>• Avoid drilling where electrical wiring, plumbing lines, etc. are located.</li> <li>• Do not apply where electrical shock hazards exist.</li> <li>• Drill holes in commonly occupied areas must be sealed after treatment.</li> </ul>

**(continued)**

<b>Application For Wood-Infesting Pests</b>	
<b>Pests</b>	<b>Use Instructions</b>
Drywood termites & wood-infesting beetles (Not for Structural Protection) (con't)	<p><b>Wood surfaces:</b> Treat by spray or mist or, where appropriate, foam applications. For inaccessible surfaces, drill and treat the interior of structural voids. Surfaces treated may include exposed wooden surfaces in crawlspaces, basements, or attics. Wooden exterior surfaces such as decks, fencing, or siding, structural voids, channels in damaged wood, in spaces between wooden members of a structure, and junctions between wood and foundations. Apply by brushing or as a coarse, low pressure (do not exceed 50 psi at nozzle tip) spray to the wood surface; apply sufficient volume to cover the surface to the point of wetness, but avoid applying to the point of runoff.</p> <p>When spraying wood surfaces overhead in living areas, cover surfaces below the treated area with plastic sheeting or similar material. Do not contact treated surfaces until spray deposits have dried.</p>

**(continued)**

<b>Application For Wood-Infesting Pests</b>	
<b>Pests</b>	<b>Use Instructions</b>
Carpenter ants	<p><b>Homes and other structures:</b> Apply around doors and windows and other places where carpenter ants may enter. Spray or foam into cracks and crevices, or spray, mist or foam through small drilled holes into voids where ants or their nests are present. Use enough spray or foam to cover the area, but do not exceed 1 gallon of dilute suspension per 1,000 square feet of treated surface.</p> <p>It is recommended to remove or prune away any shrubbery, bushes, or tree branches touching the structure. Vegetation touching the structure may offer a route of entry for ants into the structure, allowing ants to avoid contact with the treatment.</p> <p><b>Exterior ant nests:</b> Inside trees, utility poles, fencing and decking materials and similar structural members, drill to find the interior infested cavity and inject spray, mist, or foam using a treatment tool with a backsplash guard.</p>

*(continued)*

<b>Application For Wood-Infesting Pests</b>	
<b>Pests</b>	<b>Use Instructions</b>
Carpenter ants (con't)	<p><b>Tunneling in soil:</b> Apply as a soil drench or inject the dilution or foam in the soil at intervals of 8 to 12 inches. Use 1 gallon of dilution per 8 square feet.</p> <p>Treat along the edges of walls, driveways or other hard surfaces where ants are tunneling beneath the surface.</p> <p><b>Protecting firewood from carpenter ants:</b> Treat soil beneath firewood before stacking at 1 gallon of dilution per 8 square feet. Do not treat firewood with this product.</p>
Carpenter bees	<p>Apply as a spray or mist, or sufficient volume of foam, directly into gallery entrance holes. Leave entrance open to be sure that returning adult bees are killed. When there is no longer any insect activity, the entrance hole may be sealed with a suitable sealant.</p> <p>Exterior wood surfaces may be treated by general surface application to prevent nest cavity excavation by adult carpenter bees.</p>

## **TURFGRASS APPLICATIONS**

Delta 4.75% SC controls listed insects on turfgrasses and ornamental plants in outdoor areas such as athletic fields, recreational areas, residential landscapes, parks, and public and commercial sites. Make application when insects first appear ensuring uniform coverage.

### **How to Apply**

Apply as a broadcast application using a minimum of 2 gallons of water per 1000 sq. ft. with a hydraulic boom-type sprayer or other suitable equipment for turfgrass pests. Follow the specified rates listed in the Application Rates for Turfgrass Sites table. Use higher volumes (4 to 10 gallons of water per 1000 sq. ft.) for areas of dense turfgrass and/or where turfgrass is mowed at greater heights. Control is achieved when the insecticide contacts the target pest. For best results on surface-feeding insects, do not irrigate or mow within 24 hours after application. For subsurface-feeding insects, apply 0.25 to 0.5 inch of water immediately after application. Do not allow people or pests into the treatment area until turfgrass has dried.

**Tank Mixing:** Delta 4.75% SC may be tank-mixed with other pest control or fertilizer products. Observe all restrictions, precautions and limitations appearing on the tank-mix partner label. To check for compatibility with Delta 4.75% SC, mix a small test sample of the products in the correct proportions with water in a quart jar. The use of silicone surfactants in tank mixtures with Delta 4.75% SC may enhance the control of some insects.

**RESTRICTIONS:** In New York State, product may not be applied to turf within 100 feet of a coastal marsh or stream that drains directly into a coastal marsh. For control of turf insects in New York, a second application may be made after two weeks if target insect activity persists.



Application Rates For Turfgrass Sites		
Site	Rates	Use Instructions
Ants, armyworms, centipedes, chiggers, cockroaches, crickets, cutworms, fleas(adult), grasshoppers, ground beetles, Japanese beetles (adults), leafhoppers, mealybugs, pillbugs, scorpions, sod webworms, sowbugs, springtails, spiders, ticks	0.4 to 0.6 fl. oz./1000 sq. ft or 17.5 to 26 fl. oz./A or 0.06 to 0.08 lb.ai/A	Apply at first sign of pest presence. Apply as a broadcast spray in a minimum of 2 gallons of water per 1000 sq. ft. For best control of surface feeders such as cutworms and webworms, do not water or mow for 24 hours after application. For subsurface-feeders, such as mole crickets, apply 0.25 to 0.5 inch of water immediately after application.
Annual bluegrass weevil (adult), billbugs (adult), black turfgrass ateniatus (adult), chinch bugs, mites*, mole crickets.	0.6 to 0.9 fl. oz./sq. ft. or 26 to 39 fl. oz./Acre or 0.08 to 0.13 lb. ai/A	The use of silicone surfactants in tank mixtures with Delta 4.75% SC may enhance the control of some insects.

\*Suppression Only

## **LANDSCAPE ORNAMENTAL TREATMENTS**

Use Delta 4.75% SC to control the listed insects on landscape ornamentals including trees, shrubs, evergreens and foliage plants. Mix the Delta 4.75% SC with the required amount of water and apply as a finished spray to upper and lower leaf surfaces to ensure thorough coverage, but not to the point of run-off. Make sure to apply sufficient product to wet the leaves, trunk and branches of ornamentals.

**Restrictions:** Similar formulations have been tested on many species of ornamental plants with good results, but if local use information in this product is not available, it is recommended to pre-spray a few plants to check for compatibility.

Application Rates for Ornamentals		
Pests	Rates	Remarks
<p>Adelgids, ants, aphids, azalea lace bugs, bagworms, boxelder bugs, cankerworms, cardamom thrips, cockroaches, crickets, elm leaf beetles, elm spanworms, European pine sawflies, fall webworms, flea beetles, flies, fungus gnats, grasshoppers, greenstriped mapleworm, Gypsy moth (larvae), imported willow leaf beetles, Japanese beetles (adults)*, June beetles (adults), lace bugs, leaf-feeding caterpillars, leafhoppers, leaf rollers, loopers, leaf skeletonizers, mealybugs, midges, mimosa webworms, mites**, orangestriped oakworms, pillbugs, pine shoot beetles, pine tip moths, pinyon spindlegall midges, plant bugs, redhumped caterpillar, red imported fire ants, sawfly larvae, sowbugs, spiders, springtails, spanworms, scale insects (crawlers), tent caterpillars, ticks, webworms, yellownecked caterpillar</p>	<p>4 to 8 oz./100 gallons of water</p>	<p>Apply at first sign of pest presence.</p> <p>Mix Delta 4.74% SC with the required amount of water and apply as a finished spray to ensure thorough coverage of all plant surfaces, but not to the point of run-off.</p>

\*Will provide anti-feedant properties on treated ornamentals against Japanese beetles.

\*\*Suppression only.

## **STORED GRAIN**

To control adults and accessible stages of insect pests such as, lesser grain borer, larger grain borer, Angoumois grain moth, Indian Meal moth, tobacco moth, dermestids, and bean weevil; also to suppress populations of granary weevil, rice weevil, maize weevil, saw-toothed grain beetle, red flour beetle, and confused flour beetle.

### **How To Apply**

Dilute Delta 4.75% SC with water for FDA approved food grade mineral or soybean oils and apply to the moving grain stream as a coarse spray to provide a concentration of 0.5 ppm of deltamethrin on the grain.

Final spray volume with water solutions - 5 gallons of liquid per 1000 bushels of grain

Final spray volume with oil solutions - Apply at oil manufacturer's rates

For water solutions, intermittent agitation is necessary. For oil solutions, constant agitation is required. For uniform treatment, use a moving grain stream.

For stored grain, apply Delta 4.75% SC Insecticide in solution at the rate of 5 gallons of solution per 1000 bushels to achieve a 0.5 ppm concentration of deltamethrin. Apply at rates as shown in the tables below:

**AMOUNT OF DELTA 4.75% SC INSECTICIDE/1000 BUSHELS OF GRAIN**

GRAIN	DELTA 4.75% SC INSECTICIDE TREATMENT AT 0.5 PPM		GALLONS OF DILUTE
	FL. OZ.	ML	
BARLEY	7.31	216	5
CORN	8.53	252	5
OATS	4.88	144	5
POPCORN	8.53	252	5
RICE	6.86	202	5
RYE	8.53	252	5
SORGHUM (milo)	8.53	252	5
WHEAT	9.14	270	5

Final spray volumes to treat 100 metric tons of grain at 0.5 ppm concentrations of deltamethrin are provided in the tables below corresponding to the grain being treated.

**AMOUNT OF DELTA 4.75% SC INSECTICIDE/100 METRIC TONS OF GRAIN**

<b>GRAIN</b>	<b>DELTA 4.75% SC INSECTICIDE PER 100 METRIC TONS AT 0.5 PPM</b>		<b>LITERS OF DILUTE SOLUTION</b>
	<b>FL.OZ.</b>	<b>ML</b>	
BARLEY	33.6	993	86.9
CORN	33.6	993	74.5
OATS	33.6	993	130.4
POPCORN	33.6	993	74.5
RICE	33.6	993	92.7
RYE	33.6	993	74.5
SORGHUM (milo)	33.6	993	74.5
WHEAT	33.6	993	69.5

## **SEED TREATMENT**

Apply Delta 4.75% SC to protect stored grain seed against injury from stored grain insects listed above. Clean and treat seed storage areas prior to storage. If seed is insect infested, fumigate\*\* to control existing populations and apply Delta 4.75% SC for residual protection. Delta 4.75% SC may also be used in conjunction with registered fungicide or other insecticide seed protectants, to protect barley, corn, oats, popcorn, rice, rye, sorghum and wheat seed during the seed treating process, and prior to bagging or placing in bulk seed storage at the rate of 0.5 ppm. When treating seed with other pesticide products, the treated seed should be properly tagged, indicating the seed should not be used for food, feed or oil purposes. Seed treated with Delta 4.75% SC alone is considered grain.

\*\*Fumigate with EPA-registered fumigant according to manufacturer's label recommendations.

## **GRAIN BINS AND WAREHOUSES**

Dilute 0.25-1.5 fl. oz. of Delta 4.75% SC with water to make 1 gallon of solution. Before storing or handling grain, apply finished spray to equipment, wall and floor surfaces of grain bins and warehouses at the rate of 1 gallon per 1000 sq. ft. but do not allow run-off to occur. Apply after equipment bins and buildings have been thoroughly cleaned. Empty bins or warehouses should be fumigated with an EPA registered fumigant according to the manufacturer's label recommendations as well as areas that are difficult to get into. Use Delta 4.75% SC as a perimeter treatment to prevent infestation of these structures. Apply to areas where pests are seen or may find entrance. Treat a band of soil or lawn up to 6-10 feet wide around and adjacent to structures and treat the foundation to a height of 2 to 3 feet. Mix 0.25-1.5 fl. oz. of Delta 4.75% SC with water to

make 1 gallon of solution. Apply as a coarse spray at a rate of 1 gallon per 1000 sq. ft. Thoroughly and uniformly wet the barrier area but do not allow run-off to occur.

**Directions below are for Use as a Coating Additive ONLY**

**PAINT ADDITIVE USE**

*Delta 4.75% SC may be mixed with latex coatings and oil-based coatings such as stains, varnishes and sealers for use to kill crawling and flying insects when exposed to treated surfaces.*

**Note:** *To ensure product efficacy, do not prepare more than the amount of latex coating that can be applied within 3 hours of mixing. For oil-based coating, stains, varnish or sealers, the amount of coating formulated should not exceed the amount that can be applied within 6 hours.*

**Restrictions:** *Do not allow children or pets to enter the treated area until surfaces are dry.*

**Mixing Instructions:** *Add 1 2/3 fl. oz. to 1 gallon [8 1/3 fl. oz. to 5 gallons] of latex coating (water base), oil base coating, and stains or sealers. Mix well to insure proper dilution.*

**How to Apply:** *Apply treated coating with brush, roller, or conventional airless equipment.*

**FOR INDOOR PEST CONTROL**

*Delta 4.75% SC may be applied in and on residential and non-residential buildings and structures including residential kitchens and food/feed handling establishments. This product can be applied to non-food contact surfaces of walls, floors, ceilings, in and around cabinets, behind and beneath equipment and appliances, around floor drains, window and door frames and around plumbing, sinks and other possible pest harborage sites.*

**Note:** *Delta 4.75% SC can be applied only as a crack and crevice or spot treatment indoors. Do not use for broadcast interior applications such as entire walls, ceilings, and floors.*



*Permitted areas of use include the food/feed and non-food/  
non-feed areas of:*

*Aircraft (cargo area only)*

*Apartment buildings*

*Bakeries*

*Bottling facilities*

*Breweries*

*Buses*

*Cafeterias*

*Candy plants*

*Canneries*

*Dairy product processing plants*

*Food manufacturing plants*

*Food processing plants*

*Food service establishments*

*Granaries and grain mills*

*Hospitals*

*Hotels*

*Houses*

*Industrial buildings*

*Installations*

*Kitchens*

*Laboratories*

*Mausoleums*

*Meat, poultry and egg processing and packaging plants*

*Mobile and motor homes*

*Nursing homes*

*Offices*

*Railcars*

*Restaurants*

*Schools*

*Ships and vessels*

*Trailers*

*Trucks*

*Warehouses*

*Wineries*

**Restrictions:**

- Do not apply to classrooms when in use.
- Do not use in aircraft cabins.
- Do not apply this product in occupied patient rooms or in any rooms/areas while occupied by patients, the elderly or infirm.
- Do not apply to institutions including libraries, sports facilities, or in the immediate area when occupants are present.

**Pantry Pest Control:** To kill adult and accessible stages of insect pests: Spiders, ticks, cockroaches and ants. Make application to cupboards, shelving and storage areas. Remove all foodstuffs, all utensils, shelf paper and other objects before coating with this product. Allow all treated surfaces to dry and cover shelves with clean paper prior to replacing foodstuffs, utensils or other items. Any foodstuff accidentally contaminated with any coating solution should be discarded.

**Crawling Insect Pests (such as Spiders, Ticks, Cockroaches, Mosquitoes, Imported and , Southern Fire Ants, Leafcutter Ants and Silverfish):** Apply Delta 4.75% SC to localized areas of walls, ceilings and other resting areas as a crack and crevice or spot treatment.

Delta 4.75% SC may be used inside residential buildings, as well as in and around carports, garages, storage sheds, unoccupied horse stables and pet kennels.

**Pet Kennels:** For residual control of crawling and flying insects in and around these structures, apply as cracks and crevices or spot treatment. Optimal control results if facilities to be treated are clean, and coated surfaces are cleaned regularly (every 21 days). Apply only to areas of facility where animals are not present. Allow coating to dry before allowing re-entry of animals into treated areas. Do not apply to animal feed or watering equipment.

**Food/Feed Handling Establishments:** For control of all labeled pests, applications are permitted in food/feed and non-food/non-feed areas of food/feed handling and processing establishments as spot or crack and crevice treatment.

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

**Non-Food/Non-Feed Areas:** Examples of non-food/non-feed areas include garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, mop closets and storage (after packaging, canning or bottling). All areas that insects inhabit or through which insects may enter should be treated.

**Note:** Do not use this application method in the food/feed handling areas of the facility when the facility is in operation or foods/feeds are exposed. Do not apply directly to food/feed products. Cover or remove all food/feed processing and/or handling equipment during application. After application in food/feed processing plants, cafeterias and similar facilities wash all equipment, benches, shelving and other surfaces which food/feed will contact. Clean food/feed handling or processing equipment and thoroughly rinse with clean, fresh water. After application in bakeries, clean all food contact surfaces thoroughly with appropriate equipment.

*Spot or Crack and Crevice Applications: Except in federally inspected meat and poultry plants, spot or crack and crevice applications may be made while the facility is in operation, provided exposed food is covered or removed from area being treated prior to application. Do not apply directly to food or food-handling surfaces. In the home, do not allow coating to contact food/feed surfaces. If it does, clean surfaces with soap and water.*

### **FOR OUTDOOR PEST CONTROL**

#### **For Commercial/Industrial Use Only**

**Kills cockroaches in sewer manholes and related sanitary sites.**

**Application Instructions:** *To control cockroaches in manholes, sewers, sewer cleanouts, floor drains and underground utility vaults. Apply product on manhole walls. Product may be applied via coarse spray using conventional airless spray equipment. Persons applying product in manhole must comply with CLOSED ENTRY requirements of government agencies.*

*Apply treated latex coating with remote access application equipment.*

**Residual Application:** *Apply Delta 4.75% SC to surfaces of buildings, porches, window frames, eaves, patios and garages, to control Spiders, Ticks, American and German Cockroaches, Silverfish, Imported and Southern Fire Ants and Leafcutter Ants.*

**Note:** *Do not apply to furniture, swing sets, or other outdoor playground articles.*

#### **CORRUGATED and CARDBOARD BOXES AND LINERS For Commercial/Industrial Use Only**

*Delta 4.75% SC provides residual protection to the outer surface of corrugated and cardboard (folding carton) boxes against insects that damage or feed on paper, corrugated or cardboard (folding carton).*

**Mixing Instructions:** To protect the outer surface of the box from damage from insects, such as spiders, ticks, silverfish, cockroaches, ants and weevil, mix 2.1 fluid oz. Delta 4.75% SC to coating for corrugated or cardboard (folding carton).

**Note:** This coating can only be applied to the outside of the corrugated or cardboard (folding carton) box or to corrugated or cardboard (folding carton) box liner that is to be used for the exterior portion of the corrugated or cardboard (folding carton) box.

**How to Apply:** Make application at a rate of one gallon of coating containing Delta 4.75% SC to 6000 to 8000 square ft. of surface (include size press, rod, blade, air knife, offset press, gravure and flexography). DO NOT APPLY TO INNER SURFACE OF BOXES.]

## STORAGE & DISPOSAL

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

**PESTICIDE STORAGE:** Mix as needed. Store in original container in a secured dry storage area. Avoid extremes in temperatures. Prevent cross-contamination with other pesticides and fertilizers. If the container is leaking and/or material is spilled, on floor or paved surfaces, absorb on sawdust or other commercially available absorbing material, sweep up and remove to chemical waste area for your disposal. Concentrate is stable at normal storage temperatures.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**(continued)**

## **STORAGE & DISPOSAL** *(continued)*

### **CONTAINER DISPOSAL: Nonrefillable container.**

Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. **Containers**

**less than 5 gallons:** 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 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke. **Containers greater than 5 gallons:**

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

*(continued)*

## **STORAGE & DISPOSAL** *(continued)*

**Refillable containers:** Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from the container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

### **IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Conditions, Disclaimer 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, because of manner of use and other factors beyond Control Solutions, Inc.'s control, it is impossible for Control Solutions, Inc. to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. 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.'S ELECTION, THE REPLACEMENT OF PRODUCT.



# D-FENSE™ SC



## Insecticide

Provides Control of Listed Insect/Pests in and around the Home. For Insect Control on Commercial and Residential Turf and Landscape Ornamental Plants. For crack and crevice and spot applications in homes, hotels, schools and food handling establishments. Controls ants, bedbugs, cockroaches, fleas, flies, silverfish, spiders and many other listed pests. Mattress application for bedbugs and lice. Broadcast spray for lawns and turfgrass to control fleas, ticks and other listed insects. Concentrated suspension of micro-crystals Long lasting residual. For use on Paints, Plastics, Fabrics and other surfaces. Kills crawling and flying insects when exposed to treated surfaces. Protects Stored Grains and seeds against damage from Indian Meal Moth, Saw-Toothed Grain Beetle, Red Flour Beetle, Rice Weevil, Maize Weevil, and many other listed pests. Agitate Well.

### ACTIVE INGREDIENT:

*Deltamethrin .....	4.75%
OTHER INGREDIENTS: .....	95.25%
TOTAL .....	100.00%

\*Contains 0.42 lb deltamethrin per gallon.

KEEP OUT OF REACH OF CHILDREN

## CAUTION

**PRECAUCION AL USARIO:** Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente. **(TO THE USER:** If you cannot read English, do not use this product until the label has been fully explained to you.)

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

Reg. No. 53883-276 EPA Est. No. 53883-TX-002

**NET CONTENTS: 16 FL. OZ. (1 PT.)**



ADAMA

Manufactured by:

**Control  
Solutions Inc.**

A member of Adama

Consumer and Professional Solutions  
5903 Genoa-Red Bluff, Pasadena, TX 77507

EPA 040314/REV A

# D-FENSE™ SC



## Insecticide

- Provides Control of Listed Insect/Pests in and around the Home.
- For Insect Control on Commercial and Residential Turf and Landscape Ornamental Plants.
- For crack and crevice and spot applications in homes, hotels, schools and food handling establishments.
- Controls ants, bedbugs, cockroaches, fleas, flies, silverfish, spiders and many other listed pests.
- Mattress application for bedbugs and lice.
- Broadcast spray for lawns and turfgrass to control fleas, ticks and other listed insects.
- Concentrated suspension of micro-crystals.
- Long lasting residual.
- For use on Paints, Plastics, Fabrics and other surfaces.
- Kills crawling and flying insects when exposed to treated surfaces.
- Protects Stored Grains and seeds against damage from Indian Meal Moth, Saw-Toothed Grain Beetle, Red Flour Beetle, Rice Weevil, Maize Weevil, and many other listed pests.
- Agitate Well.

### ACTIVE INGREDIENT:

\* Deltamethrin ..... 4.75%

OTHER INGREDIENTS: ..... 95.25%

TOTAL ..... 100.00%

\*Contains 0.42 lb deltamethrin per gallon.

## KEEP OUT OF REACH OF CHILDREN CAUTION

**PRECAUCION AL USUARIO:** Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente. **(TO THE USER:** If you cannot read English, do not use this product until the label has been fully explained to you.)

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

Reg. No. 53883-276

EPA Est. No. 53883-TX-002

**CONTENTS:**  
**1 GALLON**



ADAMA

Manufactured by:

## Control Solutions Inc.

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

EPA 040314/REV A

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS & DOMESTIC ANIMALS  
CAUTION**

Harmful if inhaled. Avoid breathing vapor or spray mist. Contact with product may result in transient tingling and reddening of the skin. Remove contaminated clothing and wash before reuse.

<b>FIRST AID</b>	
<b>If Inhaled</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>HOT LINE NUMBER</b>	
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® (866) 897-8050 for emergency medical treatment information.	

**Environmental Hazards**

This product is extremely toxic to fresh water and estuarine fish and invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems. This pesticide is highly toxic to bees exposed to direct treatment. Do not apply or allow it to drift to crops or weeds on which bees are actively foraging.

**Physical and Chemical Hazards**

Do not use water-based sprays of Delta 4.75% SC in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard.

**DIRECTIONS FOR USE**

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

Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

**PRODUCT INFORMATION**

Delta 4.75% SC is a suspension concentrate insecticide for use both indoors and outdoors for effective knockdown and long residual control of listed pests. Apply in and around buildings and structures, and on established landscape ornamentals around residential and commercial properties.

## Dilutions Rates

AI Concentration	Delta 4.75% diluted to One Gallon of Water	When to Use
0.01%	0.25 fl. oz. (7.5 mL)	This rate is recommended for maintenance treatments.
0.03%	0.75 fl. oz. (22.7 mL)	This rate is recommended for initial treatment or clean-out treatments.
0.06%	1.5 fl. oz. (45.4 mL)	This rate is recommended for severe pest infestations or when longer control is desired.

### Mixing Instructions

Mix Delta 4.75% SC with water and apply using a hand pressurized or power operated sprayer, such as Actisol or similar equipment. For outdoor broadcast application, apply as a coarse spray or with conventional hydraulic boom-type sprayer or other suitable equipment. Shake container well before using.

### Dilution Instructions:

- add half the water to the spray tank;
- add Delta 4.75% SC as specified in the appropriate application rates table;
- agitate well;
- add the remaining water slowly to avoid excess foam;
- thoroughly agitate the sprayer before using to insure proper suspension.

**Note:** If spraying is stopped when using a back-pack or hand-held spray equipment, reinvert sprayer before use. If spray screens are used, they must be 50 mesh or larger. Dilute Delta 4.75% SC only with water. Only prepare the spray solution when ready to make applications.

**Tank Mixing:** Tank mix Delta 4.75% SC with other currently registered pesticides unless prohibited by the product label. To check for product compatibility, a small volume mixing test with other products is recommended. Follow all restrictions and precautions specified on the labels of these tank-mix products.

Treatments may be made at 21-day intervals or as necessary to maintain adequate control.

### PEST CONTROL INDOORS

Delta 4.75% SC may be applied in and around residential and non-residential buildings including residential kitchens and food/feed handling establishments. This includes schools, factories, warehouses, hospitals, food processing facilities (non-food areas), and modes of transportation.

Mix Delta 4.75% SC with water and apply indoors as a crack and crevice application, spot or general-surface treatment, or void (spray, mist, foam) injections with hand pressurized or power operated sprayers or other suitable equipment.

**For residential buildings and structures** - apply only as a crack and crevice or spot treatment.

## Pests Controlled

Ants	Cluster flies	Flesh flies	Midges	Pillbugs
Bed bugs	Cockroaches	Flies	Millipedes	Sciarid flies
Bird mites	Crickets	Fruit flies	Moths	(fungus gnats)
Blue/green bottle flies	Darkling beetles	Gnats	Multi-colored beetles	Scorpions
Boxelder bugs	Dermeestids	Hide beetles	Asian lady beetles	Silverfish
Carpet beetles	Earwigs	Hornets	Pantry pests, beetles & moths	Sowbugs
Centipedes	Elm leaf beetles	House flies	Phorid flies	Spiders
Clothes moths	Firebrats	Leather beetles		Ticks
Clover mites	Fleas			Wasps
				Yellowjackets

Approved use sites include the food/feed and non-food/non-feed areas of:

Aircraft (cargo only)	Industrial buildings
Apartment buildings	Installations
Bakeries	Kitchens
Bottling facilities	Laboratories
Breweries	Mausoleums
Buses	Meat, poultry & egg processing & packaging plants
Cafeterias	Mobile & motor homes
Candy plants	Nursing homes
Canneries	Offices
Dairy product processing plants	Railcars
Food manufacturing plants	Restaurants
Food processing plants	Schools
Food service establishments	Ships & vessels
Granaries & grain mills	Trailers
Hospitals	Trucks
Hotels	Warehouses
Houses	Wineries

## Where to Apply

This product can be applied to walls, floors, ceilings, in and around cabinets, between, behind and beneath equipment and appliances, around floor drains, window and door frames and around plumbing, sinks and other possible pest harborage sites.

Treat where pests have been seen or found, or can find shelter. Treat areas where pests normally feed or hide, such as baseboards, corners, around water pipes, behind and under refrigerators, cabinets, sinks and stoves.

Treat entry points around water pipes, utility penetrations, windows, doors, vents, and eaves.

Void applications can be made behind veneers, piers, and chimney bases, into rubble foundations, into block voids and structural voids, wall voids, under slabs, stoops, porches or to the soil in crawlspaces, and other similar voids.

Spot treat floors, floor coverings, carpets, or rugs for flea and tick control; DO NOT treat entire floor area.

**Use Rates:**

- For a 0.01% a.i. concentrate, use 0.25 fl. oz. Delta 4.75% SC (7.5 mL) per gallon of water
- For a 0.03% ai concentration, use 0.75 fl. oz. of Delta 4.75% SC (22.7 mL) per gallon of water.
- For a 0.06% a.i. concentration, use 1.50 fl. oz. of Delta 4.75% SC (45.4 mL) per gallon of water.

**How to Apply**

**Spot Treatment:** Apply Delta 4.75% SC using a low pressure system (do not exceed 50 psi at nozzle) with a fan-type nozzle to uniformly apply spot treatments in and around cupboards, and between, beneath and behind equipment or appliances.

In the home, all food processing surfaces and utensils must be covered before treatment or thoroughly washed following treatment. Cover exposed food or remove from area being treated.

**Spray, Mist or Foam, Crack and Crevice, or Void Applications:** Apply Delta 4.75% SC spray, mist or foam directly into cracks and crevice or voids where pests or their nests are found.

- **Spray:** Apply Delta 4.75% SC Spray Mixture to cracks and crevices in and around baseboards, floors, walls, appliances, areas around water and sewer pipes, and other voids with a low pressure system (do not exceed 50 psi at nozzle tip) using a pinpoint or variable pattern nozzle.
- **Mist:** Use appropriate mist generating equipment. Do not allow mist to drift out of void spaces into commonly occupied areas of structure.
- **Foam:** Use foam to treat structural voids and control pests in walls, under slabs, or other void areas. Using appropriate foam generating equipment, mix dilution with manufacturer's specified volume of foaming agent and apply sufficient volume of foam.

**When to Apply**

Apply when pests are seen or found. Treat areas that insects inhabit or where they are normally found. Use 0.25 to 1.5 fluid ounces of Delta 4.75% SC per gallon of water and apply to adequately cover 1000 square feet. Under conditions of severe pest infestation, when quick knockdown and/or longer residual control is desired, use 1.5 ounces of 0.06% Delta 4.75% SC per 1,000 sq. ft.

Treatments may be made at 21-day intervals or as necessary to maintain adequate control.

**Restrictions:**

- Do not apply broadcast treatments to floors or floor coverings.
- Do not apply as a space spray.
- Remove or tightly cover fish tanks and disconnect aerators during application.
- Keep people and pets away from sites of application until treated area has dried.
- When treating areas directly over your head, wear eye protection (safety glasses, goggles, or face shield) and dust/mist mask or respirator.

<b>Application for Indoor Pests</b>	
<b>Pests</b>	<b>Use Instructions</b>
Cockroaches, Ants, Crickets, Silverfish, Firebrats, Centipedes, Millipedes, Clothes Moths, Earwigs, Pillbugs, Sowbugs, Scorpions and Spiders	Apply as a coarse. Low pressure (do not exceed 50 psi at nozzle tip) spot or crack and crevice spray to areas that these pests found. Pay particular attention to dark corners or rooms and closets; floor drains; cracks and crevices in walls; along and behind baseboards; beneath and behind sinks, stoves, refrigerators, and cabinets; around plumbing and other utility installations; doors, windows, and attics and crawl spaces. Spot applications may be made to floor surfaces along baseboards and around air ducts. Let surfaces dry before allowing people or pets to contact surfaces.
Pantry Pests	To kill adult and accessible immature stages of insects such as lesser grain borers, grain weevils, flour beetles, saw-toothed grain beetles, cigarette beetles, merchant grain beetles, Angoumois grain moths, Mediterranean flour moths, Indian meal moths, grain mites and spider mites: Make applications to cupboards, shelving and storage areas. Remove all foodstuffs, all utensils, shelf paper, and other objects before spraying. Allow all treated surfaces to dry before replacing foodstuffs, utensils or other items. Any foodstuff accidentally contaminated with any spray solution must be discarded.
Crawling and Flying Insect Pests: Flies, Gnats, Midges, Mosquitoes, Cockroaches, Ants, and Silverfish	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, storage sheds, unoccupied barns, stables, or pet kennels.
Ants, including Pharaoh's ant	Apply to trails, around doors and windows and other areas where ants inhabit or enter premises.
Bed Bugs and Lice	<p>Spray bed bugs and eggs directly wherever possible following site directions below. For infested mattresses, remove linens and wash before reuse. Apply to mattresses, especially tufts, folds, and edges until moist.</p> <p>Allow to dry before remaking bed.</p> <p>Apply to bedsprings, box springs, and the interior of bed frames or headboards, including all cracks and crevices.</p> <p>When bed bugs are found in upholstered furniture, apply only to the infested tufts, seams, folds and edges, but do not make broadcast applications to flat surfaces where prolonged human contact will occur. If bugs heavily infest furniture (inside cushions and/or batting) apply a labeled insecticide dust or consider fumigation.</p> <p>Apply as a crack and crevice treatment to all baseboards, moldings, beneath floor coverings and carpets, closets, shelves, curtains, furniture and picture frames that may provide harborage to bed bugs.</p>

***(continued)***

<b>Application for Indoor Pests</b>	
<b>Pests</b>	<b>Use Instructions</b>
Carper Beetles, Fleas and Ticks	<p>A total integrated pest management program is recommended. It is suggested that infested areas be thoroughly vacuumed prior to treatment. These areas include all carpet, upholstered furniture, baseboards, and other indoor areas frequented by pets. The vacuum cleaner bag should be discarded in an outdoor trash container upon completion. Pet bedding should be cleaned or replaced.</p> <p>Apply this product as a uniform, coarse low-pressure (do not exceed 50 psi at nozzle tip) spot or crack and crevice treatment to areas where these pests normally inhabit. Care should be taken to limit spot treatments to pet bedding and its surrounding area, infested floor coverings and pest habitats.</p> <p>DO NOT treat entire area of floor, carpet or floor coverings. When these pests are found in upholstered furniture, apply only to the infested tufts, seams, folds and edges, but do not make broadcast applications to flat surfaces where prolonged human contact will occur.</p> <p>This product can also be applied out-of-doors for flea and tick control (see directions in Outdoor/Perimeter Pests).</p> <p>Delta 4.75% SC can be used with an Insect Growth Regulator (IGR). For effective control of fleas, treatment directly to the pet with an EPA registered product for such use, as well as treating outside areas pets frequent may be required. DO NOT treat pets with this product.</p>
Pet Kennels	<p>For residual control of crawling and flying insects in and around these structures, apply as a general surface and/or crack and crevice spray.</p> <p>Optimal control results if facilities to be treated are clean and if the exterior perimeter is concurrently treated with this product. Apply only to areas of facility where animals are not present.</p> <p>Allow spray to dry before allowing re-entry of animals into treated areas. Do not apply to animal feed or watering equipment. Do NOT treat pets with this product.</p> <p>Limit spot treatment to pet beds and infested floor coverings.</p>



## **FOOD/FEED HANDLING ESTABLISHMENTS**

Applications are permitted in food/feed and non-food/non-feed areas of food/feed handling and processing establishments as a general surface, spot or crack and crevice treatment to control of labeled pests.

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

**Non-Food/Non-Feed Areas:** Areas include garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, mop closets and storage (after packaging, canning or bottling). Treat any area that insects are observed in or where insects may enter.

**General Surface Applications:** Before application cover or remove all food/feed processing and/or handling equipment. After application, wash all equipment, benches, shelving and other surfaces that food/feed will contact in food/feed processing plants, cafeterias and similar facilities. Clean food/feed handling or processing equipment and rinse well with clean, fresh water. After application in bakeries, clean all food contact surfaces thoroughly with appropriate equipment.

### **Restrictions:**

- Do not use this application method in the food/feed handling areas of the facility when the facility is in operation or foods/feeds are exposed.
- Do not apply to food/feed products.
- Spot or Crack & Crevice Applications: Except in federally inspected meat and poultry plants, spot or crack and crevice applications may be made while the facility is in operation provided exposed food is covered or removed from area being treated prior to application.
- Restrictions:
  - Application is prohibited in Federally inspected meat and poultry plants while such facility is in operation.
  - Do not apply to food or food-handling surfaces.
  - In the home, do not allow spray to contact food/feed surfaces. If it does, clean surfaces with soap and water.

## **PEST CONTROL OUTDOORS**

Apply Delta 4.75% SC as a perimeter treatment, residual spray or broadcast application to surfaces of buildings, lawns, grounds and ornamental plantings.

## Pests Controlled

Ants	Crickets	Gnats	Mosquitoes	Sowbugs
Blue or green bottle flies	Earwigs	Ground beetles	Moths	Spiders
Boxelder bugs	Elm leaf beetles	Hornets	Multi-colored	Springtails
Brown	Fire ants	House flies	Asian lady beetle	Stable flies
marmorated stink bug	Firebrats	Midges	Pillbugs	Ticks
Carpenter ants	Fleas	Millipedes	Scorpions	Wasps
Centipedes	Flesh flies		Silverfish	Yellow jackets
Cockroaches	Flies			
Cluster flies				
Clover mites				

## Where to Apply

Apply as a perimeter treatment or residual spray around residential and non-residential settings. Treatments should begin at the first sighting of pests.

**Residual Spray:** Apply Delta 4.75% SC to surfaces on building exteriors, porches, patios and other structures, around door and windows, eaves and attic vents, utility entry points, soffit areas and other exterior openings (including foundation cracks or drilled holes) where pests enter the structure or where they have been seen or found, or can find shelter.

**Perimeter Treatments:** For best results, apply Delta 4.75% SC to areas where pests are seen and may find entrance. Treat the outside of the structure, including walls (to a height of 2 to 3 feet), around door and window frames, and soffits where pests are active or may enter or hide. Treat the soil, turf, or other ground covering adjacent to the structure (in a band up to 10 feet wide) where pests are seen, have been found, or can find shelter. In ant management programs, apply to flower, shrub or ornamental plant beds where ants may be nesting, find food or forage.

## Restrictions;

1. Do not water the treated area to the point of run-off
2. Do not make applications during rain.
3. Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack and crevice treatment. During application, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters, or surface waters.
4. All outdoor applications, if permitted elsewhere on this label, must be limited to spot or crack and crevice treatments only, except for the following permitted uses:
  - a) Applications to soil or vegetation, as listed on this label, around structures;
  - b) Applications to lawns, turf, and other vegetation, as listed on this label;
  - c) Applications to the side of a building, up to a maximum height of 3 feet above grade;
  - d) Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;
  - e) Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width;
  - f) 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.

Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.

**Use Rates:**

- For a 0.01% dilution, use 0.25 fl. oz. Delta 4.75% SC (75 mL) per gallon of water
- For a 0.03% dilution, use 0.75 fl. oz. of Delta 4.75% SC (22.7 mL) per gallon of water.
- For a 0.06% dilution, use 1.50 fl. oz. of Delta 4.75% SC (45.4 mL) per gallon of water.

**How to Apply:**

Apply as a coarse low pressure (do not exceed 50 psi at nozzle tip) spray at the rate of 0.25 to 1.5 fluid ounces of this product per 1,000 square feet of surfaces. Apply in a sufficient volume of water to provide adequate coverage but do not allow run-off to occur.

**High volume applications using power sprayers:** You must adjust the rate of product dilution to ensure the correct amount of the product (see Use Rate section above) is applied per 1,000 square feet of treated surface. For example, mixing 12.5 fluid ounces of this product in a 50 gallon tank, while using an application volume of 3.0 gallons per 1,000 square feet, will apply 0.75 fluid ounces of this product per 1,000 square feet. The table below gives examples of end use dilutions for typical power spraying application volumes.

**DILUTION RATE CHART**

Amount of Product		Application Volume Gallons of Water	Concentration (%AI) In Spray Solution
Fluid Ounces	Milliliter		
0.25	75	1	0.01%
		2	0.005%
		3	0.0033%
		4	0.0025%
		5	0.002%
0.75	22.7	1	0.03%
		2	0.015%
		3	0.01%
		4	0.0075%
		5	0.006%
1.5	45.4	1	0.06%
		2	0.03%
		3	0.02%
		4	0.15%
		5	0.12%

<b>I. DELTA 4.75% SC DILUTION (0.25 oz. /1000 sq. ft.) - (Based on one home being 1,000 sq. ft.)</b>								
<b>Tank Size</b>	<b>15 Gallon</b>		<b>25 Gallon</b>		<b>50 Gallon</b>		<b>100 Gallon</b>	
<b>Finished Spray: Gallons Per 1000 sq. ft.</b>	<b>Delta 4.75% SC Per Tank (fl. oz.)</b>	<b>Homes Per Tank*</b>	<b>Delta 4.75% SC Per Tank (fl. oz.)</b>	<b>Homes Per Tank*</b>	<b>Delta 4.75% SC Per Tank (fl. oz.)</b>	<b>Homes Per Tank*</b>	<b>Delta 4.75% SC Per Tank (fl. oz.)</b>	<b>Homes Per Tank*</b>
1	3.75	15	6.25	25	12.50	50	25.00	100
3	1.25	5	2.08	8	4.17	16	8.33	33
5	0.75	3	1.25	5	2.50	10	5.00	20
10	0.37	1.5	0.63	2.5	1.25	5	2.50	10
*Based on Delta 4.75% SC applied at 0.25 ounces per 1,000 square feet treated per home or structure.								
<b>II. DELTA 4.75% SC DILUTION (1.00 oz. /1000 sq. ft.)</b>								
<b>Tank Size</b>	<b>15 Gallon</b>		<b>25 Gallon</b>		<b>50 Gallon</b>		<b>100 Gallon</b>	
<b>Finished Spray: Gallons Per 1000 sq. ft.</b>	<b>Delta 4.75% SC Per Tank (fl. oz.)</b>	<b>Homes Per Tank*</b>	<b>Delta 4.75% SC Per Tank (fl. oz.)</b>	<b>Homes Per Tank*</b>	<b>Delta 4.75% SC Per Tank (fl. oz.)</b>	<b>Homes Per Tank*</b>	<b>Delta 4.75% SC Per Tank (fl. oz.)</b>	<b>Homes Per Tank*</b>
1	15.0	15	25.0	25	50	50	100.0	100
3	5.0	5	8.4	8.3	16.70	16.7	33.3	33.3
5	3.0	3	5.0	5	10.0	10	20.0	20
10	1.5	1.5	2.5	2.5	5.0	5	10.0	10
*Based on Delta 4.75% SC applied at 1.00 ounce per 1,000 square feet treated per home or structure.								

<b>Application For Outdoor/Perimeter Pests</b>	
<b>Pests</b>	<b>Use Instructions</b>
Ants, roaches and other listed crawling pests	<p>Apply as a residual spray and/or perimeter treatment around the infested structure as described above.</p> <p>Locate and treat ant nests if possible. Follow trails of foraging worker ants and inspect for likely nest sites. If ants are nesting in soil, drench or inject the nest and surrounding soil. Foliar applications to landscape ornamentals will control aphids, scale insects, and other plant-sucking insects and limit the production of honeydew (an important food source for ant populations). Apply a light mist of the dilute spray, and do not allow excess run-off. Treat thoroughly for good coverage, including the underside of leaves.</p> <p>It is recommended to remove or prune away any shrubbery, bushes, or tree branches touching the structure. Vegetation touching the structure may offer a route of entry for ants into the structure, allowing ants to avoid contact with the treatment.</p>
Occasional invaders including multi-colored Asian lady beetle, elm leaf beetle, boxelder bug, and brown marmorated stinkbug.	<p>Apply directly to insects that have congregated around doors, windows and similar areas where they may enter the structure. Apply a perimeter treatment as described above.</p> <p>For best results, treat trees and shrubs infested with boxelder bugs, elm leaf beetles, and other occasional invading species early in the season. [Tree spraying may require ornamental license - check with your local regulator].</p>
Fleas and Ticks (including ticks that may transmit Rocky Mountain Spotted Fever)	<p>Apply as a coarse wet spray to areas where fleas and ticks are most likely to be found, such as dog houses, kennels, runways, along paths or trails, under plants, shrubs, bushes, trees, or other shaded, moist areas where pests may be found.</p> <p>Treat the entire area where these pests could be present. Fleas and ticks may be re-introduced from surrounding areas by host animals.</p>
Mosquitoes	<p>Treat with spray or mist around landscape plants, turf and ground cover, under decks, around building foundations and other places where mosquitoes may rest.</p>
Fire Ants	<p>Apply as a mound drench. Dilute 1.5 oz per one gallon of water. Gently sprinkle 1 to 2 gallons of the diluted insecticide over the surface of each mound and surrounding area to a 2-foot diameter.</p> <p>For best results, apply in cool weather, 65 to 80°F or in early morning or late evening hours. Treat new mounds as they appear.</p>

***(continued)***

<b>Application For Outdoor/Perimeter Pests</b>	
Scorpions	<p>Treat areas where scorpions may hide. Treat known or suspected harborages on and around exterior walls. Apply spot treatments into cracks, crevices, weep holes or other access points into hollow block walls or masonry veneer. Spray around and beneath stones and along rocky areas.</p> <p>Scorpions will often harbor beneath the bark on trees, so inspect these areas and treat as required. When possible, remove piles of debris and building materials near the exterior wall that can harbor the pests. Apply a perimeter treatment to the exterior walls and adjacent soil. You may treat around piles of firewood, but do not treat firewood with this product.</p>
Hornets, wasps, and yellow jackets	<p>Make a pin stream application directly to hornet or yellow jacket nests. To reduce sting threat, make applications in the evening when the insects are inside the nest. For paper wasps, use a pin stream or fan spray and apply over surface of exposed nest.</p> <p>Remove and destroy treated nests to prevent emergence of newly emerged insects. If removal is not possible, retreat nests as needed.</p>
Centipedes, millipedes, pillbugs, sow bugs, springtails.	<p>Apply perimeter treatment to reduce the number of insects entering the structure. Thoroughly treat mulched areas. Correcting moisture problems around the structure will reduce pest pressure.</p>
House flies and Cluster flies	<p>Apply low pressure (do not exceed 50 psi at nozzle tip) mist or spray to outside of surfaces of buildings, porches, patios, garages, fences, and other areas where house flies rest.</p> <p>Cluster flies: Treat in late summer or fall, just before cluster flies begin looking for winter shelter. Spray siding, eaves, around windows and doors, and window screens. To help reduce infestations, treat cracks and crevices, attics and other indoor winter hiding places.</p>

### **WOOD INFESTING PESTS**

Apply Delta 4.75% SC as a perimeter treatment, residual spray or broadcast application to surfaces of buildings, lawns, grounds and ornamental plantings.

#### **Pests Controlled**

Drywood termites

Beetles

- Lyctid or powder post
- Anobiid or deathwatch

Beetles (con't)

- False powderpost
- old house borer
- wharf borers

Beetles (con't)

- Ambrosia beetles
- bark beetles

Carpenter ants

Carpenter bees

For treatment of wood infested with, or subject to infestation by, wood-infesting pests. Apply where pests have been seen or found, or can find shelter. Not for structural protection.

**Use Rates:**

For a 0.06% dilution, use 1.50 fl. oz. of Delta 4.75% SC (45.4 mL) per gallon of water.

**How to Apply**

Apply spray, mist, or foam as described below in the application section. Treatment dilutions may also be applied to wood surfaces by paint brush or roller. Do not contact treated surfaces until dry.

Apply when pests are seen or found. Treatments may be applied at 21-day intervals, or as necessary to maintain adequate control.

**Foam Applications**

This product can be converted to foam and used to treat structural voids to control wood-infesting pests in walls, under slabs, within masonry voids, or in other void areas. Mix end-use dilution with manufacturer's specified volume of foaming agent.

<b>Application For Wood-Infesting Pests</b>	
<b>Pests</b>	<b>Use Instructions</b>
Drywood termites & wood-infesting beetles (Not for Structural Protection)	<p><b>Galleries and structural voids:</b> Treat by applying sprays, mists, or foams. Locate galleries by using visual signs (frass or pellets, blistered wood, emergence or clean out holes), the presence of live insects, mechanical sounding techniques, or listening devices (e.g., stethoscopes, acoustic emission detectors). Penetrate the gallery system by drilling holes to receive the injector tip or treatment tool. Distribute drill holes to adequately cover the gallery system. Apply as a low pressure (do not exceed 50 psi at nozzle tip) spray, or by misting or, where appropriate, by foaming.</p> <ul style="list-style-type: none"> <li>• Do not treat to the point where runoff is detected from adjacent holes.</li> <li>• Avoid drilling where electrical wiring, plumbing lines, etc. are located.</li> <li>• Do not apply where electrical shock hazards exist.</li> <li>• Drill holes in commonly occupied areas must be sealed after treatment.</li> </ul> <p><b>Wood surfaces:</b> Treat by spray or mist or, where appropriate, foam applications. For inaccessible surfaces, drill and treat the interior of structural voids. Surfaces treated may include exposed wooden surfaces in crawlspaces, basements, or attics. Wooden exterior surfaces such as decks, fencing, or siding, structural voids, channels in damaged wood, in spaces between wooden members of a structure, and junctions between wood and foundations. Apply by brushing or as a coarse, low pressure (do not exceed 50 psi at nozzle tip) spray to the wood surface; apply sufficient volume to cover the surface to the point of wetness, but avoid applying to the point of runoff.</p> <p>When spraying wood surfaces overhead in living areas, cover surfaces below the treated area with plastic sheeting or similar material. Do not contact treated surfaces until spray deposits have dried.</p>

*(continued)*

<b>Application For Wood-Infesting Pests</b>	
<b>Pests</b>	<b>Use Instructions</b>
Carpenter ants	<p><b>Homes and other structures:</b> Apply around doors and windows and other places where carpenter ants may enter. Spray or foam into cracks and crevices, or spray, mist or foam through small drilled holes into voids where ants or their nests are present. Use enough spray or foam to cover the area, but do not exceed 1 gallon of dilute suspension per 1,000 square feet of treated surface.</p> <p>It is recommended to remove or prune away any shrubbery, bushes, or tree branches touching the structure. Vegetation touching the structure may offer a route of entry for ants into the structure, allowing ants to avoid contact with the treatment.</p> <p><b>Exterior ant nests:</b> Inside trees, utility poles, fencing and decking materials and similar structural members, drill to find the interior infested cavity and inject spray, mist, or foam using a treatment tool with a backsplash guard.</p> <p><b>Tunneling in soil:</b> Apply as a soil drench or inject the dilution or foam in the soil at intervals of 8 to 12 inches. Use 1 gallon of dilution per 8 square feet.</p> <p>Treat along the edges of walls, driveways or other hard surfaces where ants are tunneling beneath the surface.</p> <p><b>Protecting firewood from carpenter ants:</b> Treat soil beneath firewood before stacking at 1 gallon of dilution per 8 square feet. Do not treat firewood with this product.</p>
Carpenter bees	<p>Apply as a spray or mist, or sufficient volume of foam, directly into gallery entrance holes. Leave entrance open to be sure that returning adult bees are killed. When there is no longer any insect activity, the entrance hole may be sealed with a suitable sealant.</p> <p>Exterior wood surfaces may be treated by general surface application to prevent nest cavity excavation by adult carpenter bees.</p>

### **TURFGRASS APPLICATIONS**

Delta 4.75% SC controls listed insects on turfgrasses and ornamental plants in outdoor areas such as athletic fields, recreational areas, residential landscapes, parks, and public and commercial sites. Make application when insects first appear ensuring uniform coverage.

#### **How to Apply**

Apply as a broadcast application using a minimum of 2 gallons of water per 1000 sq. ft. with a hydraulic boom-type sprayer or other suitable equipment for turfgrass pests. Follow the specified rates listed in the Application Rates for Turfgrass Sites table. Use higher volumes (4 to 10 gallons of water per 1000 sq. ft.) for areas of dense turfgrass and/or where turfgrass is mowed at greater heights. Control is achieved when the insecticide contacts the target pest. For best results on surface-feeding insects, do not irrigate or mow within 24 hours after application. For subsurface-feeding insects, apply 0.25 to 0.5 inch of water immediately after application. Do not allow people or pests into the treatment area until turfgrass has dried.



**Tank Mixing:** Delta 4.75% SC may be tank-mixed with other pest control or fertilizer products. Observe all restrictions, precautions and limitations appearing on the tank-mix partner label. To check for compatibility with Delta 4.75% SC, mix a small test sample of the products in the correct proportions with water in a quart jar. The use of silicone surfactants in tank mixtures with Delta 4.75% SC may enhance the control of some insects.

**RESTRICTIONS:** In New York State, product may not be applied to turf within 100 feet of a coastal marsh or stream that drains directly into a coastal marsh. For control of turf insects in New York, a second application may be made after two weeks if target insect activity persists.

Application Rates For Turfgrass Sites		
Site	Rates	Use Instructions
Ants, armyworms, centipedes, chiggers, cockroaches, crickets, cutworms, fleas(adult), grasshoppers, ground beetles, Japanese beetles (adults), leafhoppers, mealybugs, pillbugs, scorpions, sod webworms, sowbugs, springtails, spiders, ticks	0.4 to 0.6 fl. oz./1000 sq. ft or 17.5 to 26 fl. oz./A or 0.06 to 0.08 lb.ai/A	Apply at first sign of pest presence. Apply as a broadcast spray in a minimum of 2 gallons of water per 1000 sq. ft. For best control of surface feeders such as cutworms and webworms, do not water or mow for 24 hours after application. For subsurface-feeders, such as mole crickets, apply 0.25 to 0.5 inch of water immediately after application. The use of silicone surfactants in tank mixtures with Delta 4.75% SC may enhance the control of some insects.
Annual bluegrass weevil (adult), billbugs (adult), black turfgrass ataenius (adult), chinch bugs, mites*, mole crickets.	0.6 to 0.9 fl. oz./sq. ft. or 26 to 39 fl. oz./Acre or 0.08 to 0.13 lb. ai/A	

\*Suppression Only

#### LANDSCAPE ORNAMENTAL TREATMENTS

Use Delta 4.75% SC to control the listed insects on landscape ornamentals including trees, shrubs, evergreens and foliage plants. Mix the Delta 4.75% SC with the required amount of water and apply as a finished spray to upper and lower leaf surfaces to ensure thorough coverage, but not to the point of run-off. Make sure to apply sufficient product to wet the leaves, trunk and branches of ornamentals.

**Restrictions:** Similar formulations have been tested on many species of ornamental plants with good results, but if local use information in this product is not available, it is recommended to pre-spray a few plants to check for compatibility.

Application Rates for Ornamentals		
Pests	Rates	Remarks
Adelgids, ants, aphids, azalea lace bugs, bagworms, boxelder bugs, cankerworms, cardamom thrips, cockroaches, crickets, elm leaf beetles, elm spanworms, European pine sawflies, fall webworms, flea beetles, flies, fungus gnats, grasshoppers, greenstriped mapleworm, Gypsy moth (larvae), imported willow leaf beetles, Japanese beetles (adults)*, June beetles (adults), lace bugs, leaf-feeding caterpillars, leafhoppers, leaf rollers, loopers, leaf skeletonizers, mealybugs, midges, mimosa webworms, mites**, orangestriped oakworms, pillbugs, pine shoot beetles, pine tip moths, pinyon spindlegall midges, plant bugs, redhumped caterpillar, red imported fire ants, sawfly larvae, sowbugs, spiders, springtails, spanworms, scale insects (crawlers), tent caterpillars, ticks, webworms, yellownecked caterpillar	4 to 8 oz./100 gallons of water	Apply at first sign of pest presence.  Mix Delta 4.74% SC with the required amount of water and apply as a finished spray to ensure thorough coverage of all plant surfaces, but not to the point of run-off.

\*Will provide anti-feedant properties on treated ornamentals against Japanese beetles.

\*\*Suppression only.

#### STORED GRAIN

To control adults and accessible stages of insect pests such as, lesser grain borer, larger grain borer, Angoumois grain moth, Indian Meal moth, tobacco moth, dermestids, and bean weevil; also to suppress populations of granary weevil, rice weevil, maize weevil, saw-toothed grain beetle, red flour beetle, and confused flour beetle.

#### How To Apply

Dilute Delta 4.75% SC with water for FDA approved food grade mineral or soybean oils and apply to the moving grain stream as a coarse spray to provide a concentration of 0.5 ppm of deltamethrin on the grain.

Final spray volume with water solutions - 5 gallons of liquid per 1000 bushels of grain

Final spray volume with oil solutions - Apply at oil manufacturer's rates

For water solutions, intermittent agitation is necessary. For oil solutions, constant agitation is required. For uniform treatment, use a moving grain stream.

For stored grain, apply Delta 4.75% SC Insecticide in solution at the rate of 5 gallons of solution per 1000 bushels to achieve a 0.5 ppm concentration of deltamethrin. Apply at rates as shown in the tables below:

**AMOUNT OF DELTA 4.75% SC INSECTICIDE/1000 BUSHELS OF GRAIN**

GRAIN	DELTA 4.75% SC INSECTICIDE TREATMENT AT 0.5 PPM		GALLONS OF DILUTE
	FL. OZ.	ML	
BARLEY	7.31	216	5
CORN	8.53	252	5
OATS	4.88	144	5
POPCORN	8.53	252	5
RICE	6.86	202	5
RYE	8.53	252	5
SORGHUM (milo)	8.53	252	5
WHEAT	9.14	270	5

Final spray volumes to treat 100 metric tons of grain at 0.5 ppm concentrations of deltamethrin are provided in the tables below corresponding to the grain being treated.

**AMOUNT OF DELTA 4.75% SC INSECTICIDE/100 METRIC TONS OF GRAIN**

GRAIN	DELTA 4.75% SC INSECTICIDE PER 100 METRIC TONS AT 0.5 PPM		LITERS OF DILUTE SOLUTION
	FLOZ.	ML	
BARLEY	33.6	993	86.9
CORN	33.6	993	74.5
OATS	33.6	993	130.4
POPCORN	33.6	993	74.5
RICE	33.6	993	92.7
RYE	33.6	993	74.5
SORGHUM (milo)	33.6	993	74.5
WHEAT	33.6	993	69.5

**SEED TREATMENT**

Apply Delta 4.75% SC to protect stored grain seed against injury from stored grain insects listed above. Clean and treat seed storage areas prior to storage. If seed is insect infested, fumigate\*\* to control existing populations and apply Delta 4.75% SC for residual protection. Delta 4.75% SC may also be used in conjunction with registered fungicide or other insecticide seed protectants, to protect barley, corn, oats, popcorn, rice, rye, sorghum and wheat seed during the seed treating process, and prior to bagging or placing in bulk seed storage at the rate of 0.5 ppm. When treating seed with other pesticide products, the treated seed should be properly tagged, indicating the seed should not be used for food, feed or oil purposes. Seed treated with Delta 4.75% SC alone is considered grain.

\*\*Fumigate with EPA-registered fumigant according to manufacturer's label recommendations.

## **GRAIN BINS AND WAREHOUSES**

Dilute 0.25-1.5 fl. oz. of Delta 4.75% SC with water to make 1 gallon of solution. Before storing or handling grain, apply finished spray to equipment, wall and floor surfaces of grain bins and warehouses at the rate of 1 gallon per 1000 sq. ft. but do not allow run-off to occur. Apply after equipment bins and buildings have been thoroughly cleaned. Empty bins or warehouses should be fumigated with an EPA registered fumigant according to the manufacturer's label recommendations as well as areas that are difficult to get into. Use Delta 4.75% SC as a perimeter treatment to prevent infestation of these structures. Apply to areas where pests are seen or may find entrance. Treat a band of soil or lawn up to 6-10 feet wide around and adjacent to structures and treat the foundation to a height of 2 to 3 feet. Mix 0.25-1.5 fl. oz. of Delta 4.75% SC with water to make 1 gallon of solution. Apply as a coarse spray at a rate of 1 gallon per 1000 sq. ft. Thoroughly and uniformly wet the barrier area but do not allow run-off to occur.

***Directions below are for Use as a Coating Additive ONLY***

### **PAINT ADDITIVE USE**

*Delta 4.75% SC may be mixed with latex coatings and oil-based coatings such as stains, varnishes and sealers for use to kill crawling and flying insects when exposed to treated surfaces.*

**Note:** *To ensure product efficacy, do not prepare more than the amount of latex coating that can be applied within 3 hours of mixing. For oil-based coating, stains, varnish or sealers, the amount of coating formulated should not exceed the amount that can be applied within 6 hours.*

**Restrictions:** *Do not allow children or pets to enter the treated area until surfaces are dry.*

**Mixing Instructions:** *Add 1 2/3 fl. oz. to 1 gallon [8 1/3 fl. oz. to 5 gallons] of latex coating (water base), oil base coating, and stains or sealers. Mix well to insure proper dilution.*

**How to Apply:** *Apply treated coating with brush, roller, or conventional airless equipment.*

### **FOR INDOOR PEST CONTROL**

*Delta 4.75% SC may be applied in and on residential and non-residential buildings and structures including residential kitchens and food/feed handling establishments. This product can be applied to non-food contact surfaces of walls, floors, ceilings, in and around cabinets, behind and beneath equipment and appliances, around floor drains, window and door frames and around plumbing, sinks and other possible pest harborage sites.*

**Note:** *Delta 4.75% SC can be applied only as a crack and crevice or spot treatment indoors. Do not use for broadcast interior applications such as entire walls, ceilings, and floors.*

*Permitted areas of use include the food/feed and non-food/non-feed areas of:*

*Aircraft (cargo area only)*

*Apartment buildings*

*Bakeries*

*Bottling facilities*

*Breweries*

*Buses*

*Cafeterias*

*Candy plants*

*Canneries*

*Dairy product processing plants*

*Food manufacturing plants*

*Food processing plants*

*Food service establishments*

*Granaries and grain mills*

*Hospitals*

*Hotels*

*Houses*

*Industrial buildings*

*Installations*

*Kitchens*

*Laboratories*

*Mausoleums*

*Meat, poultry and egg processing and packaging plants*

*Mobile and motor homes*

*Nursing homes*

*Offices*

*Railcars*

*Restaurants*

*Schools*

*Ships and vessels*

*Trailers*

*Trucks*

*Warehouses*

*Wineries*

**Restrictions:**

- Do not apply to classrooms when in use.
- Do not use in aircraft cabins.
- Do not apply this product in occupied patient rooms or in any rooms/areas while occupied by patients, the elderly or infirm.
- Do not apply to institutions including libraries, sports facilities, or in the immediate area when occupants are present.

**Pantry Pest Control:** To kill adult and accessible stages of insect pests: Spiders, ticks, cockroaches and ants. Make application to cupboards, shelving and storage areas. Remove all foodstuffs, all utensils, shelf paper and other objects before coating with this product. Allow all treated surfaces to dry and cover shelves with clean paper prior to replacing foodstuffs, utensils or other items. Any foodstuff accidentally contaminated with any coating solution should be discarded.

**Crawling Insect Pests (such as Spiders, Ticks, Cockroaches, Mosquitoes, Imported and , Southern Fire Ants, Leafcutter Ants and Silverfish):** Apply Delta 4.75% SC to localized areas of walls, ceilings and other resting areas as a crack and crevice or spot treatment.

Delta 4.75% SC may be used inside residential buildings, as well as in and around carports, garages, storage sheds, unoccupied horse stables and pet kennels.

**Pet Kennels:** For residual control of crawling and flying insects in and around these structures, apply as cracks and crevices or spot treatment. Optimal control results if facilities to be treated are clean, and coated surfaces are cleaned regularly (every 21 days). Apply only to areas of facility where animals are not present. Allow coating to dry before allowing re-entry of animals into treated areas. Do not apply to animal feed or watering equipment.

**Food/Feed Handling Establishments:** For control of all labeled pests, applications are permitted in food/feed and non-food/non-feed areas of food/feed handling and processing establishments as spot or crack and crevice treatment.

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

**Non-Food/Non-Feed Areas:** Examples of non-food/non-feed areas include garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, mop closets and storage (after packaging, canning or bottling). All areas that insects inhabit or through which insects may enter should be treated.

**Note:** Do not use this application method in the food/feed handling areas of the facility when the facility is in operation or foods/feeds are exposed. Do not apply directly to food/feed products. Cover or remove all food/feed processing and/or handling equipment during application. After application in food/feed processing plants, cafeterias and similar facilities wash all equipment, benches, shelving and other surfaces which food/feed will contact. Clean food/feed handling or processing equipment and thoroughly rinse with clean, fresh water. After application in bakeries, clean all food contact surfaces thoroughly with appropriate equipment.

**Spot or Crack and Crevice Applications:** Except in federally inspected meat and poultry plants, spot or crack and crevice applications may be made while the facility is in operation, provided exposed food is covered or removed from area being treated prior to application. Do not apply directly to food or food-handling surfaces. In the home, do not allow coating to contact food/feed surfaces. If it does, clean surfaces with soap and water.

### **FOR OUTDOOR PEST CONTROL**

#### **For Commercial/Industrial Use Only**

**Kills cockroaches in sewer manholes and related sanitary sites.**

**Application Instructions:** To control cockroaches in manholes, sewers, sewer cleanouts, floor drains and underground utility vaults. Apply product on manhole walls. Product may be applied via coarse spray using conventional airless spray equipment. Persons applying product in manhole must comply with CLOSED ENTRY requirements of government agencies.

Apply treated latex coating with remote access application equipment.

**Residual Application:** Apply Delta 4.75% SC to surfaces of buildings, porches, window frames, eaves, patios and garages, to control Spiders, Ticks, American and German Cockroaches, Silverfish, Imported and Southern Fire Ants and Leafcutter Ants.

**Note:** Do not apply to furniture, swing sets, or other outdoor playground articles.

### **CORRUGATED and CARDBOARD BOXES AND LINERS**

#### **For Commercial/Industrial Use Only**

Delta 4.75% SC provides residual protection to the outer surface of corrugated and cardboard (folding carton) boxes against insects that damage or feed on paper, corrugated or cardboard (folding carton).

**Mixing Instructions:** To protect the outer surface of the box from damage from insects, such as spiders, ticks, silverfish, cockroaches, ants and weevil, mix 2.1 fluid oz. Delta 4.75% SC to coating for corrugated or cardboard (folding carton).

**Note:** This coating can only be applied to the outside of the corrugated or cardboard (folding carton) box or to corrugated or cardboard (folding carton) box liner that is to be used for the exterior portion of the corrugated or cardboard (folding carton) box.

**How to Apply:** Make application at a rate of one gallon of coating containing Delta 4.75% SC to 6000 to 8000 square ft. of surface (include size press, rod, blade, air knife, offset press, gravure and flexography). **DO NOT APPLY TO INNER SURFACE OF BOXES.]**

## STORAGE & DISPOSAL

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

**PESTICIDE STORAGE:** Mix as needed. Store in original container in a secured dry storage area. Avoid extremes in temperatures. Prevent cross-contamination with other pesticides and fertilizers. If the container is leaking and/or material is spilled, on floor or paved surfaces, absorb on sawdust or other commercially available absorbing material, sweep up and remove to chemical waste area for your disposal. Concentrate is stable at normal storage temperatures.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL: Nonrefillable container.** Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. **Containers less than 5 gallons:** 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 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke. **Containers greater than 5 gallons:** Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Refillable containers:** Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from the container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.



### **IMPORTANT: READ BEFORE USE**

Read the entire Directions for Use, Conditions, Disclaimer 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, because of manner of use and other factors beyond Control Solutions, Inc.'s control, it is impossible for Control Solutions, Inc. to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

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# D-FENSE™ SC



## Insecticide

- Provides Control of Listed Insect/Pests in and around the Home.
- For Insect Control on Commercial and Residential Turf and Landscape Ornamental Plants.
- For crack and crevice and spot applications in homes, hotels, schools and food handling establishments.
- Controls ants, bedbugs, cockroaches, fleas, flies, silverfish, spiders and many other listed pests.
- Mattress application for bedbugs and lice.
- Broadcast spray for lawns and turfgrass to control fleas, ticks and other listed insects.
- Concentrated suspension of micro-crystals.
- Long lasting residual.
- For use on Paints, Plastics, Fabrics and other surfaces.
- Kills crawling and flying insects when exposed to treated surfaces.
- Protects Stored Grains and seeds against damage from Indian Meal Moth, Saw-Toothed Grain Beetle, Red Flour Beetle, Rice Weevil, Maize Weevil, and many other listed pests.
- Agitate Well.

### ACTIVE INGREDIENT:

†Deltamethrin ..... 4.75%

OTHER INGREDIENTS: ..... 95.25%

TOTAL ..... 100.00%

\*Contains 0.42 lb deltamethrin per gallon.

**CONTENTS:**  
**1 GALLON**

### KEEP OUT OF REACH OF CHILDREN CAUTION

**PRECAUCION AL USUARIO:** Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente. **(TO THE USER:** If you cannot read English, do not use this product until the label has been fully explained to you.)

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

Reg. No. 53883-276

EPA Est. No. 53883-TX-002



ADAMA

Manufactured by:

**Control  
Solutions Inc.**

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

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