

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

# DuraFlex CS

CONTROLLED RELEASE INSECTICIDE  
Encapsulated Solutions



For prevention and control of pests in and around structures including fleas, flies, ants, mosquitoes, cockroaches, stored product pests and others. To control pests in and around such areas as homes, commercial and industrial buildings, recreational areas, and ornamentals.

- Microencapsulated bifenthrin
- Kills mosquitoes, listed flies and gnats
- Convenient combination product
- Breaks the cycle of insect reproduction to control Fleas, Stored Product Pests, Cockroaches, Mosquitos, Flies, and other listed insect pests
- Microencapsulated Insecticide with Insect Growth Regulators for Control of Fleas, Stored Product Pests, Cockroaches, Crickets, Litter Beetles, and Flying Insects.

**ACTIVE INGREDIENT\*:**

Bifenthrin**	3.95%
Novaluron	1.30%
Pyriproxyfen	1.30%

**OTHER INGREDIENTS:** 93.45%

**TOTAL:** 100.00%

\*Bifenthrin and pyriproxyfen are encapsulated.

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

Contains 0.33 lbs. Bifenthrin, 0.1 lbs. Novaluron and 0.1 lbs. Pyriproxyfen per gallon.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See inside booklet for First Aid, Precautionary Statements,  
Directions for Use and Storage and Disposal.

EPA Reg. No. 53883-426

EPA Est. No. 53883-TX-002

**NET CONTENTS: 1 QUART**

Manufactured for:

**Control  
Solutions Inc.**

5903 Genoa-Red Bluff, Posadeno, TX 77507



ADAMA

A member of Adama  
Consumer and Professional Solutions



EPA 100218

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

### **PRECAUTIONARY STATEMENTS**

#### **HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

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

#### **PERSONAL PROTECTIVE EQUIPMENT (PPE)**

All pesticide handlers (mixers, loaders, and applicators) must wear long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves. After the product is diluted in accordance with label directions for use, and/or when mixing and loading using a closed spray tank transfer system, or an in-line injector system, shirt, pants, socks, shoes, and waterproof gloves are sufficient. In addition, all pesticide handlers must wear a respiratory protection device<sup>1</sup> when working in a non-ventilated space.

<sup>1</sup>Use one of the following: NIOSH approved respirator with any R, P or HE filter or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE pre-filter.

### **USER SAFETY RECOMMENDATIONS**

Users should:

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

### **ENVIRONMENTAL HAZARDS**

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

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

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

## PHYSICAL AND CHEMICAL HAZARDS

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

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

## DIRECTIONS FOR USE

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

**For use in areas such as:** Industrial Plants, Factories, Warehouses, Commercial Buildings, Condominiums, Apartments, Cabins, Day Care Centers, Mobile Homes, Homes, Hospitals, Hotels, Motels, Nursing Homes, Office Buildings, Other Public Buildings, Campsites, Gas Stations, Prisons, Rooms, Schools, Parks, Institutions, Jails, Sport Stadiums, Supermarkets, Taverns, Theaters, Morgues, Mortuaries, Crematoriums, Funeral Parlors, Mausoleums, Atriums, Attics, Bathrooms, Basements, Bedrooms, Porches, Closets, Draperies, Dressers, Kitchens, Porches Upholstered Furniture, Cabinets, Crawl Spaces, Carpet, Campers, Garbage Areas, Garbage Cans, Patios, Garages, Gazebos, Storage Areas, Floors, Furniture, Locker Rooms, Utility Room Indoor, Utility Room Outdoor, Washrooms;

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

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

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

Outdoor Areas and Surface Perimeters, including: Lawns and Around Foundation Walls.

## USE RESTRICTIONS

- Do not apply a broadcast application to interior surfaces of homes.
- Do not apply by aircraft.
- Do not apply in greenhouses, nurseries.
- Do not apply this product through any kind of irrigation system.
- Not for use on sod farm turf, golf course turf, or grass grown for seed.
- Do not apply to pets, crops, or sources of electricity.
- Firewood is not to be treated.
- Use only in well-ventilated areas.
- During any application to overhead areas of structure, cover surface below with plastic sheeting or similar material except for soil surfaces in crawlspaces.
- Do not allow spray to contact food, foodstuffs, food-contacting surfaces or food utensils or water supplies.
- Thoroughly wash dishes and food handling utensils with soap and water if they become contaminated by application of this product.
- Do not treat areas where food is exposed.
- During indoor surface applications, do not allow dripping or runoff to occur.
- Do not allow contact with treated surfaces by people or pets before spray has dried.
- Do not apply this product in patient rooms or in any rooms while occupied by the elderly or infirm. Ventilate treated rooms thoroughly for two (2) hours after treatment. Do not return patients to treated room until after ventilation.
- Do not apply **DuraFlex CS** in classrooms, libraries, sports venues, or other institutional facilities when they are occupied.
- **DuraFlex CS** may be applied with low-volume application equipment, including Actisol® and Micro-Injector®, for general surface (in food handling only), spot, crack and crevice, and deep harborage treatments.

- Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended only for aesthetic purposes or climactic modifications and being grown in interior landscapes, ornamental gardens or parks, or lawns and grounds.

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.

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

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

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

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

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

**PRECAUTIONS:**

- For best results, follow directions for specific use areas.
- Do not excessively wet carpet, draperies and furniture.
- Always test in an inconspicuous area prior to use as some natural and synthetic fibers may be adversely affected by any liquid product.

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

## Mixing Instructions

**DuraFlex CS** can be tank-mixed with other pesticides. Observe all precautions and Directions for Use for each product. Physical compatibility may vary with different combinations of products, so prepare a small scale (pint or quart jar) test sample for any combination not tested previously. Use proper proportions in the small-scale test to achieve the correct result. Unless otherwise noted in the label instructions, use the procedure below for preparation of a new tank mix:

1. Add wettable powders to tank water.
2. Mix well
3. Add liquids and flowables
4. Mix well
5. Add emulsifiable concentrates
6. Mix well

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



**DILUTION CHART FOR STRUCTURAL PERIMETER BARRIER APPLICATIONS**

Application Volume (Gallons of Solutions per 1,000 ft <sup>2</sup> or 1,500 ft <sup>2</sup> )	Application Rate (fl.oz. of DuraFlex CS per 1,000 sq. ft)	Fl. Oz. of DuraFlex CS to Dilute in Water According to Spray Tank Volumes				
		1 gallon	5 gallons	10 gallons	15 gallons	50 gallons
1 gallon	1.0 fl. oz.	1.0	5.0	10.0	15.0	50.0
	2.0 fl. oz.	2.0	10.0	20.0	30.0	100.0
2 gallons	1.0 fl. oz.	-	2.5	5.0	7.5	25.0
	2.0 fl. oz.	-	5.0	10.0	15.0	50.0
5 gallons	1.0 fl. oz.	-	1.0	2.0	3.0	10.0
	2.0 fl. oz.	-	2.0	4.0	6.0	20.0

## PEST SPECIFIC USE DIRECTIONS

**ANTS:** When combining liquid **DuraFlex CS** treatments with bait treatments, use **DuraFlex CS** as instructed below and apply baits in those areas where **DuraFlex CS** has not been applied.

Use Sites	Application Method	Application Rate	Use Directions
Interior Application including Spot and Crack and Crevice* Food Serving Areas/Surfaces, Non-food Serving Areas/Surfaces	Low-pressure Spray, Crack and Crevice, Pinstream, Spot or Similar Application	2 fl. oz. per gallon of water  <u>Spray Rate:</u> 1 gallon per 1,000 ft <sup>2</sup>	Apply to any trails around doors and windows and other places where ants may be found. Locate and treat nests. Where ants are trailing inside, apply as a residual spot treatment to active areas such as baseboards, corners, around pipes, in and behind cabinets, behind and under refrigerators, sinks, furnaces and stoves, cracks and crevices. When combining baits and residual insecticides, apply insecticides in cracks and crevices, along baseboards, and infested surfaces and outside barrier treatments. Use baits in other areas that are untreated by repellent insecticides.  Repeat application should only take place if there are signs of renewed activity and must not exceed one application every 7 days.
Perimeter or Around Foundation Walls	Low Pressure Sprayer or Similar Application	2 fl. oz. in a sufficient amount of water (minimum 1 gallon) to cover 1,000 ft <sup>2</sup>	Apply to exterior perimeter or around foundation walls where ants are actively foraging and in a band 6-10 feet wide adjacent to the foundation wall of the building.  Repeat treatments may be made 14 days after previous treatment, or if heavy rainfall occurs.

(continued)

Use Sites	Application Method	Application Rate	Use Directions and Restrictions
Perimeter/ Lawn	Mound Drench	2 fl. oz. per gallon of water	Use 1 – 2 gallons of dilution for each mound area. Sprinkle the mound until wet and apply to a 4-foot diameter circle around the mound. For mounds larger than 12 inches, use a larger volume. Application should be made in late evening or early morning, when it is cooler (65 – 80 °F) when insects are most active.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• In the home, cover all food processing surfaces and utensils during treatment or thoroughly wash before reuse. Exposed food should be covered or removed.</li> <li>• Do not permit humans or pets to contact treated surfaces until the spray has dried.</li> <li>• During any overhead applications to overhead interior areas of structures, cover surfaces below with plastic sheeting or similar materials.</li> <li>• Wear protective clothing, unvented goggles, gloves and respirator, when applying to overhead areas or in poorly ventilated areas. Do not touch sprayed surfaces until spray has completely dried.</li> <li>• Applications to building foundations are restricted to a maximum height of 3 feet above grade.</li> </ul>			
*General surface treatments are allowed only in food handling establishments. See Food Handling Establishments section for additional information.			

### **COCKROACHES (German, Asian, And Brown Banded) AND CRICKETS:**

The insect growth regulators in **DuraFlex CS** will prevent nymphal cockroaches and crickets from developing into adults and the Bifenthrin will kill adults. After application, cockroaches with twisted wings will begin to appear indicating that they are unable to reproduce. When used as directed, cockroach and cricket populations should be eliminated. One treatment works for 6 months against hatching cockroaches and crickets.

**Spray Mixing:** Partially fill the mixing container with water, add **DuraFlex CS**, agitate and fill to the final volume. Agitate before each use. Do not allow spray mixture to stand overnight.

<b>Use Sites</b>	<b>Application Method</b>	<b>Application Rate</b>	<b>Use Directions and Restrictions</b>
Interior Application, including Crack and Crevice or Spot Spray* Food Serving Areas/Surfaces, Non-food Serving Areas/ Surfaces	Low-pressure Sprayer; Crack and Crevice, Pinstream, Spot or Similar Application	2 fl. oz. per gallon of water Spray Rate: 1 gallon per 1,000 ft <sup>2</sup>	Contact as many insects as possible. Spray in areas where these pests may hide, paying attention to places such as beneath sinks, behind and beneath stoves and refrigerators, cracks and crevices, around garbage cans, cabinets, along the outside of baseboards, door and window sills, door and window frames and floors, around and on drains, pipes, plumbing, behind bookcases, storage and other utility installation areas, infested furniture and the inside of cabinets and closets. Repeat application should only take place if there are signs of renewed activity and must not exceed one application every 7 days.

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Use Sites	Application Method	Application Rate	Use Directions and Restrictions
Outdoor Perimeter Treatments	Low-pressure Sprayer	2 fl. oz. in a sufficient amount of water (minimum of 1 gal.) to cover 1,000 ft <sup>2</sup> in a band 2 to 4 ft wide adjacent to & around structure.	Apply at a height of 2 to 3 feet on the foundation in a band 2 to 4 feet wide adjacent to and around the structure where pests may be active or may find entrance. Apply spray around window frames, doors, garage doors, patios, decks, caports, shutters, around garbage areas, sill plate and other areas where cockroaches may congregate. Repeat treatments may be made 14 days after previous treatment, or if heavy rainfall occurs.
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• In the home, cover all food processing surfaces and utensils during treatment or thoroughly wash before reuse. Exposed food should be covered or removed.</li> <li>• Do not permit humans or pets to contact treated surfaces until the spray has dried.</li> <li>• Do not spray into the air, only spray directed toward the specific use sites.</li> <li>• During any overhead applications to overhead interior areas of structures, cover surfaces below with plastic sheeting or similar materials.</li> <li>• Wear protective clothing, unvented goggles, gloves and respirator, when applying to overhead areas or in poorly ventilated areas. Avoid touching sprayed surfaces until spray has completely dried.</li> <li>• Applications to building foundations are restricted to a maximum height of 3 feet above grade.</li> </ul> <p>*General surface treatments are allowed only in food handling establishments. See Food Handling Establishments section for additional information.</p>			

## **FLEAS AND TICKS:**

Two of the active ingredients in **DuraFlex CS** are Novaluron and Pyriproxyfen, both are insect growth regulators. Insect growth hormones are naturally occurring in insects and **DuraFlex CS** prevents the adult flea from developing. These properties will gradually result in the reduction and eventual elimination of the flea population. Flea eggs and flea larvae that come into contact with **DuraFlex CS** will also not develop into adult fleas. **DuraFlex CS** works for up to 7 months by inhibiting the development of the immature stages of the flea and preventing them from reaching the biting adult stage.

Application of **DuraFlex CS** prior to the flea season will aid in reducing developing populations. Apply to areas where pets and other animals are known to frequent and where previous infestations have been known to occur to prevent the emergence of adult fleas and also control stages of fleas that don't resemble adult fleas.

Spray Mixing: Partially fill the mixing container with water, add **DuraFlex CS**, agitate and fill to the final volume. Agitate before each use. Do not allow spray mixture to stand overnight.

Use Sites	Application Method	Application Rate	Use Directions and Restrictions
Interior General Spot Application	Low-pressure Sprayer	1 fl. oz. per gallon of water <u>Spray rate:</u> 1 gallon per 1,500 ft <sup>2</sup>	For spot treatment (no larger than 3' x 3' spot) use on carpets, furniture, pet sleeping areas & throw rugs, etc. Before treatment, vacuum carpets, draperies and upholstered furniture. Dispose of vacuum bag in an outdoor trash receptacle.  Repeat application should only take place if there are signs of renewed activity and must not exceed one application every 7 days.
Kennels and Doghouses (building, resting areas, walls, floor, animal bedding, & run areas)	Adjustable Hose-End Sprayer, Tank Type Sprayer, Sprinkling Can or Low Pressure Sprayer	1 fl. oz. per gallon of water <u>Spray rate:</u> 1 gallon per 1,500 ft <sup>2</sup>	Remove animals before treating.  Treat pets and their bedding with EPA registered flea and tick control products, flea or flea and tick collar, pet powder, pet spray, pet dip, pet shampoo, flea shampoo or flea and tick pet shampoo, in conjunction with this application as part of a complete flea control program.  Repeat application should only take place if there are signs of renewed activity and must not exceed one application every 7 days. Follow use direction for other EPA registered products that are used in conjunction.
Animal Runs, Lawns, Under Decks, Trees, Ornamental Plants & Shrubs and other areas where animals are known to rest	Adjustable Hose-End Sprayer, Tank Type Sprayer or Sprinkling can	1 fl. oz. in a sufficient amount of water (minimum 1 gallon) to cover 1,500 ft <sup>2</sup>	As a spot treatment for areas where pets normally frequent, but not limited to under trees, ornamental plants and shrubs.  Application on soil surfaces will provide 21 days of IGR activity. If needed, repeat treatments may be made 14 days after last treatment or, if heavy rainfall occurs, repeat as necessary.

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**RESTRICTIONS:**

- Remove pets prior to spraying treatment area.
- Do not permit humans or pets to contact treated surfaces until the spray has dried.
- Do not spray into the air; only spray directed toward the specific use sites.
- Wear protective clothing, unvented goggles, gloves and respirator, when applying to overhead areas or in poorly ventilated areas. Avoid touching sprayed surfaces until spray has completely dried.
- Do not spray when wind conditions could create a mist to blow back to applicator.
- Do not apply this product in or around bodies of water.
- Do not soak young or flowering plants.
- Applications to building foundations are restricted to a maximum height of 3 feet above grade.



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

Spray Mixing for Surface, Spot, Crack and Crevice Application: Prepare a diluted spray solution by adding 1.5 fluid ounces of **DuraFlex CS** per gallon of water. Partially fill the mixing container with water, add **DuraFlex CS**, agitate and fill to final volume. Agitate before each spray application.

Use Sites	Application Method	Application Rate	Use Directions and Restrictions
Interior Application, including Spot and Crack and Crevice*  Food Serving Areas/Surfaces, Non-food Serving Areas/Surfaces	Pressurized spray system capable of delivering a pinpoint or variable spray pattern  Low-pressure Sprayer	1.5 fl. oz. per gallon of water  <u>Spray rate:</u> 1 gallon per 1,500 ft <sup>2</sup>	<p><b>Crack and Crevice applications</b> may be made directly to cracks and crevices, baseboards, floors, ceilings, walls, expansion joints, molding, areas around water and sewer pipes, voids where pests can hide and similar areas.</p> <p><b>Spot treatments</b> may also be made around storage areas, closets, around water pipes, doors and windows, behind and under refrigerators, cabinets, sinks, stoves and other equipment, shelves, drawers and similar areas.</p> <p>Contact as many insects as possible.</p> <p>When used in treatment of food processing and food handling establishments and in food and non-food storage warehouses repeat application in 90 days. (Places other than private residences in which food is held, processed, prepared, or served.)</p>

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**RESTRICTIONS:**

- In the home, cover all food processing surfaces and utensils during treatment or thoroughly wash before reuse. Exposed food should be covered or removed.
- Do not permit humans or pets to contact treated surfaces until the spray has dried.
- During any overhead applications to overhead interior areas of structures, cover surfaces below with plastic sheeting or similar materials.
- Wear protective clothing, unvented goggles, gloves and respirator, when applying to overhead areas or in poorly ventilated areas. Avoid touching sprayed surfaces until spray has completely dried.

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

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

**DuraFlex CS** may be used for the control of house flies, stable flies, moths, mosquitoes, nuisance flies (gnats, midges). The insect growth regulators in **DuraFlex CS** cause a decrease in the number and hatching of eggs laid by treated adults. Fly larvae (maggots) treated with **DuraFlex CS** cannot develop into normal adults. The use of **DuraFlex CS** will result in a reduction in adult fly populations after 3-4 weeks, at the time when previously hatched adult flies have died naturally.

**DuraFlex CS** may be used for control of flying insect pests in, on and around residential, commercial, public, industrial and agricultural buildings. **DuraFlex CS** may be used to control nuisance flies, gnats, midges, and mosquitoes by application into moist breeding areas (potted plants, moist debris or litter) or into areas holding standing water such as gutters, drains, pools and fountains.

<b>Use Sites</b>	<b>Application Method</b>	<b>Application Rate</b>	<b>Use Directions</b>
Interior Applications to Residential, Commercial, Public, Industrial and Agricultural Buildings Food Serving Areas/ Surfaces, Non-food Serving Areas/ Surfaces*	Spot and Crack and Crevice	1 fl. oz per gallon of water <b>Spray Rate:</b> 1 gallon per 1,500 ft <sup>2</sup> or 1,000 linear feet for crack and crevice	Treat areas where flying insects may collect, rest or breed. Apply solution as a coarse, wetting spray to breeding and harborage sites. For drains, apply dilution into and around the drain and catch basin area. When possible, in agricultural buildings only, treat vertical surfaces surrounding breeding sites, where small flies tend to alight. If needed, repeat 14 days after previous treatment.
Fly breeding sites such as drains, traps of sinks, and in-floor drains	Foam application	1 fl. oz per gallon of diluent To convert to foam, add foaming agent at the manufacturer's specified rate.	Using a professional foam applicator, apply finished foam to areas of fly breeding sites such as drains, traps of sinks, bathtubs and in-floor drains. For best results, foam should be applied thoroughly ensuring all void areas and fly breeding material is treatment. Follow the requirements of the foam equipment manufacturer.

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<b>Use Sites</b>	<b>Application Method</b>	<b>Application Rate</b>	<b>Use Directions and Restrictions</b>
Exterior Applications to Residential, Commercial, Public, Industrial and Agricultural Buildings (up to 3 feet)	Surface (including Broadcast, Spot and Crack and Crevice)	1 fl. oz. in a sufficient amount of water (minimum 1 gallon) to cover 1,500 ft <sup>2</sup> or 1,000 linear feet for crack and crevice**	Apply to outside surfaces of buildings (up to 3 feet), porches, patios, garages and other areas where these pests have been seen or found. To help prevent infestations of buildings by flying insects, treat soil, vegetation or other substrates in a band 6-10 feet wide adjacent to the building foundations, walls, around doors and windows, and overhead areas where these pests are active and may find entrance or harborage. For surface applications, thoroughly wet doors, around windows, garbage and refuse areas. Apply to foliage and ornamental plants as well as into moist breeding areas such as potted plants, moist debris or litter, or into areas holding standing water such as gutters, drains, pools and fountains. Control will be enhanced when facilities are cleaned and interior applications are supplemented with exterior perimeter treatments.

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Use Sites	Application Method	Application Rate	Use Directions and Restrictions
<p>Exterior Applications to Residential, Commercial, Public, Industrial and Agricultural Buildings (up to 3 feet) (For Mosquito Control Only)</p>	<p>Hand-held and Back Pack Sprayers or Mist Blowers, Ground Sprayers, Power Sprayers</p>	<p>1 fl. oz. in a sufficient amount of water (minimum 1 gallon) to cover 1,000 ft<sup>2</sup>**</p>	<p>Use <b>DuraFlex CS</b> for control of mosquitoes that may potentially transmit malaria, and arboviruses (West Nile Fever, dengue fever, Eastern equine encephalitis, and St. Louis encephalitis)</p> <p>Retreatment may be necessary to achieve and/or maintain control during periods of high pest pressure, or if there are signs of renewed insect activity. Do not apply more than once every 14 days.</p> <p>Do not apply by aircraft or with hand held or truck mounted cold aerosol ULV sprayers and thermal fogging devices.</p> <p>For best results apply when the mosquitoes are most active. Application during the cooler hours of the night or early mornings are recommended.</p> <p>Do not spray in or near fish ponds or other bodies of water.</p>

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Use Sites	Application Method	Application Rate	Use Directions and Restrictions
<b>RESTRICTIONS:</b>			
<ul style="list-style-type: none"> <li>• Do not permit humans, pets or livestock to contact treated surfaces until the spray has dried.</li> <li>• For mosquito control, do not apply when wind speed exceeds 10 MPH.</li> <li>• Do not spray into the air; only spray directed at the specific use sites.</li> <li>• During any overhead applications to overhead interior areas of structures, cover surfaces below with plastic sheeting or similar materials.</li> <li>• Wear protective clothing, unvented goggles, gloves and respirator, when applying to overhead areas or in poorly ventilated areas. Avoid touching sprayed surfaces until spray has completely dried.</li> <li>• Do not spray when wind conditions could create a mist to blow back to applicator.</li> <li>• Do not apply this product in or around bodies of water.</li> <li>• Applications to building foundations are restricted to a maximum height of 3 feet above grade.</li> <li>• Do not make outdoor broadcast applications when wind speed is 15 mph or greater.</li> </ul>			
*General surface treatments are allowed only in food handling establishments. See Food Handling Establishments section for additional information.			
**See DILUTION CHART FOR STRUCTURAL PERIMETER BARRIER APPLICATIONS for additional information on mix rates.			

*(continued)*

**ADDITIONAL PESTS (including Boxelder bugs, Earwigs, Beetles, Millipedes, Pillbugs, Sowbugs, Stink bugs, Silverfish, Firebrats)**

Use Sites	Application Method	Application Rate	Use Directions and Restrictions
<p>Interior Spot and Crack and Crevice Application Food Serving Areas/ Surfaces, Non-food Serving Areas/ Surfaces*</p>	<p>Low-pressure Spray, Crack and Crevice, Pinstream, Spot or Similar Application</p>	<p>1 - 2 fl. oz per gallon of water <u>Spray Rate:</u> 1 gallon per 1,000 sq. ft.</p>	<p>Treat near doors and windows, storage areas, baseboards and other sites where these pests may be found. For silverfish and firebrats, treat where pests hide. These areas include, attics and eaves, baseboards, closets, corners, storage areas, around water pipes, doors and windows, behind and under cabinets, furnaces, refrigerators, sinks, stoves, and the underside of shelves and drawers. Repeat application should only take place if there are signs of renewed insect activity and must not exceed one application per 7 days.</p>
<p>Exterior Applications to Residential, Commercial, Public, Industrial and Agricultural Buildings</p>	<p>Surface (including Spot and Crack and Crevice)</p>	<p>1 fl. oz. in a sufficient amount of water (minimum 1 gallon) to cover 1,000 ft<sup>2</sup></p>	<p>Apply at a height of 2 to 3 feet on the foundation in a band 6 to 10 feet wide adjacent to and around the structure where pests may be active or may find entrance. Apply spray around window frames, doors, garage doors, patios, decks, carports, shutters, around garbage areas, sill plate and other areas where pests may congregate.</p>

*(continued)*

*(continued)*

**RESTRICTIONS:**

- In the home, cover all food processing surfaces and utensils during treatment or thoroughly wash before reuse. Exposed food should be covered or removed.
- Do not permit humans or pets to contact treated surfaces until the spray has dried.
- During any overhead applications to overhead interior areas of structures, cover surfaces below with plastic sheeting or similar materials.
- Do not spray into the air, only spray directed at the specific use sites.
- Wear protective clothing, unvented goggles, gloves and respirator, when applying to overhead areas or in poorly ventilated areas. Do not touch sprayed surfaces until spray has completely dried.
- Applications to building foundations are restricted to a maximum height of 3 feet above grade.

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

**FOOD HANDLING ESTABLISHMENTS**

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

If used as a spot, general surface, or crack and crevice treatment, **DuraFlex CS** may be applied in both food/feed and nonfood areas of food/feed handling establishments.

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



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

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

†WAREHOUSES and GROCERY/PET STORES: **DuraFlex CS** dilution may be applied as a surface, spot or crack and crevice treatment in food and nonfood storage warehouses and stores. Apply to all areas that may harbor pests, including under and between pallets, bins, and shelves. Do not apply directly to food, grain bins (interior), or animals.

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

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

**Foam Applications:** Converting **DuraFlex CS** to foam will allow it to be used to treat structural voids. To produce a foam concentration, dilute 1.0 – 2.0 fl. oz. of **DuraFlex CS** per gallon of water and add the manufacturer's specified amount of foaming agent. Before application, make sure that the foaming agent is compatible with **DuraFlex CS**.

## **STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store upright at room temperature. Avoid exposure to extreme temperatures. In case of spillage or leakages, soak up with an absorbent material such as sand, sawdust, earth, Fuller's earth, etc. Dispose of with chemical waste.

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

### **CONTAINER HANDLING:**

**For Containers equal to or less than 5 Gallons :** Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  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. Offer for recycling if available. If recycling is not available, then dispose of container in a sanitary landfill.

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

## LIMITATION OF WARRANTY AND LIABILITY

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

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

**IT IS CONTROL SOLUTIONS INC., AND SELLERS INTENTION THAT** in no event shall Control Solutions or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF CONTROL SOLUTIONS, INC., AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF CONTROL SOLUTIONS, INC. OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

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Pasadena, TX 77507-1041  
EPA Reg. No. 53883-426  
EPA Est. No. 53883-TX-002

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



# DuraFlex CS

## CONTROLLED RELEASE INSECTICIDE

### Encapsulated Solutions



For prevention and control of pests in and around structures including fleas, flies, ants, mosquitoes, cockroaches, stored product pests and others. To control pests in and around such areas as homes, commercial and industrial buildings, recreational areas, and ornamentals.

- Microencapsulated bifenthrin
- Kills mosquitoes, listed flies and gnats
- Convenient combination product
- Breaks the cycle of insect reproduction to control Fleas, Stored Product Pests, Cockroaches, Mosquitos, Flies, and other listed insect pests
- Microencapsulated Insecticide with Insect Growth Regulators for Control of Fleas, Stored Product Pests, Cockroaches, Crickets, Litter Beetles, and Flying Insects.

#### ACTIVE INGREDIENT\*:

Bifenthrin**	3.95%
Novaluron	1.30%
Pyriproxyfen	1.30%

OTHER INGREDIENTS: ..... 93.45%

TOTAL: ..... 100.00%

\*Bifenthrin and pyriproxyfen are encapsulated.

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

Contains 0.33 lbs. Bifenthrin, 0.1 lbs. Novaluron and 0.1 lbs. Pyriproxyfen per gallon.

**KEEP OUT OF REACH OF CHILDREN**  
**CAUTION**

See inside booklet for First Aid, Precautionary Statements,  
 Directions for Use and Storage and Disposal.

**NET CONTENTS:**  
**1 QUART**



ADAMA

Manufactured for:

**Control  
 Solutions Inc.**

5903 Genoa-Red Bluff, Pasadena, TX 77507

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 Consumer and Professional Solutions

EPA 100218