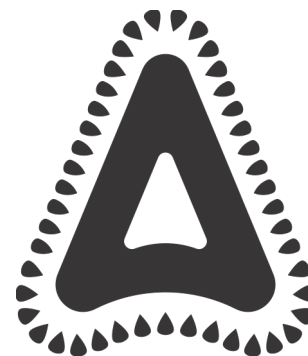


# Stryker 5-25



## Active Ingredients:

Pyrethrins (CAS No. 8003-34-7) .....	5%
Piperonyl butoxide* (CAS No. 51-03-6) .....	25%
<b>Other Ingredients</b> .....	<b>70%</b>
<b>Total</b> .....	<b>100%</b>

\*(butyl carbityl)(6-propylpiperonyl) ether and related compounds

## Keep Out of Reach of Children CAUTION

See back [side] panel for additional Precautionary Statements.

EPA Reg. No. 53883-333

EPA Est. 53883-TX-002

## First Aid

<b>If Swallowed:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or a doctor.</li><li>• Do not give anything by mouth to an unconscious person</li></ul>
<b>If on Skin or Clothing:</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
Have the product container or label with you when calling the poison control center or doctor or going for treatment. For additional information on this product (including health concerns, medical emergencies or pesticide incidents), you may call SafetyCall® International at (866) 897-8050, twenty-four (24) hours per day, seven (7) days per week.	

*{The First Aid statements' grid format will be used if market label space permits; otherwise a paragraph format will be used.}*

## PRECAUTIONARY STATEMENTS

### Hazards to Humans & Domestic Animals

**CAUTION:** Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

### Personal Protective Equipment (PPE)

**Mixers, loaders, applicators and other handlers must wear:** Long-sleeved shirt, long pants, shoes and socks, and gloves.

In addition to the above PPE, applicators using a high pressure handwand in an enclosed area must wear at least a NIOSH-approved respirator with a dust/mist filter with a MSHA/NIOSH-approval number prefix TC-21C or any N, R, P or HE filter.

#### **User Safety Requirements**

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

#### **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 thoroughly wash 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.

*{Products used exclusively indoors may omit the following Environmental Hazards statements:}*

#### **Environmental Hazards**

This product is toxic to aquatic organisms, including fish and invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through runoff. This product has a potential for runoff for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product.

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

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash-waters or rinsate.

*{Products used exclusively indoors and packages in containers equal to or greater than 5 gallons must use the following Environmental Hazards statements:}*

#### **Environmental Hazards**

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollution 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 treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

#### **DIRECTIONS FOR USE**

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

#### **USE RESTRICTIONS**

##### **When Used Outdoors:**

- Apply this product only as specified on the label.
- Do not enter or allow others to enter until sprays have dried.
- Do not apply this product in a way that will contact workers or other persons, either directly or through drift.
- Only protected handlers may be in the area during application.
- Do not make application during rain.

- Do not water the treated area to the point of run-off.
- Application of this product is prohibited directly into sewers or drains, or to any area like a gutter where drainage to storm sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow this product to enter any drain during or after application.
- Do not allow the product to enter any drain during or after application.
- When used outdoors around residential areas: 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. 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, if allowed elsewhere on this label:
  1. Applications to soil or vegetation, as listed on this label, around structures;
  2. Applications to lawns, turf, and other vegetation, as listed on this label;
  3. Applications to the side of a building, 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; and/or
  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.
- For post-harvest application to vegetables, fruits, nuts and other commodities: Do not re-apply within 7 days. Do not apply more than 10 times to sweet potatoes.

**When Used Indoors:**

- Apply this product only as specified on the label.
- Do not use in aircraft cabins.
- Do not apply this product when food, feed and/or water is present.
- Do not apply this product in barns and stables where animals intended for slaughter or human consumption will be maintained.
- Remove pets, birds and cover fish aquariums before application.
- Remove or cover exposed food and drinking water before application.
- Remove or cover dishes, utensils, food processing equipment and food preparation surfaces, or wash them before use.
- Do not enter or allow others to enter until vapors, mists and aerosols have dispersed, and the treated area has been thoroughly ventilated.
- Do not remain in treated area. Exit area immediately and remain outside the treated area until aerosols, vapors and/or mists have dispersed.
- When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.
- When used indoors in food handling/processing facilities: Do not make space spray applications when facility is in operation. Prior to space spray applications cover or remove exposed food; cover food processing surfaces or clean after treatment and before use.
- Application of this product is prohibited directly into sewers or drains, or to any area like a gutter where drainage to storm sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow this product to enter any drain during or after application.
- In hospitals, patients must be removed prior to treatment. The room must be ventilated for two hours after spraying. Do not return patient to room until after ventilation.

**To kill the following listed insects:**

*Aedes* Mosquitoes  
Almond moths

American Cockroaches  
Angoumois grain moths

*Anopheles* Mosquitoes

Ants (excluding Fire, Harvester,  
and Pharaoh Ants)  
Black Widow spiders  
Boxelder bugs  
Brown dog ticks  
Cadelles  
Carpet beetles  
Cereal beetles  
Cheese mites  
Cheese skippers  
Chocolate moths  
Cigarette beetles  
Clothes moths  
Clover mites  
Coffee bean weevils  
Confused flour beetles  
Crickets  
Dark mealworms  
Darkling beetles  
Dermesid beetles

Dried fruit beetles  
Drugstore beetles  
Earwigs  
Face flies  
Firebrats  
Flat grain beetles  
Fruit flies  
German Cockroaches  
Gnats  
Grain mites  
Granary weevils  
Horn flies  
House flies  
Indian meal moths  
Khapra beetles  
Lesser grain borers  
Lesser house flies  
Mediterranean flour moths  
Merchant grain beetles  
Midges

Millers  
Millipedes  
Flying moths  
Palmetto bugs  
Pillbugs  
Red flour beetles  
Rice flour beetles  
Rusty grain beetles  
Saw-toothed grain beetles  
Silverfish  
Skipper flies  
Spider beetles  
Stable flies  
Sowbugs  
Ticks  
Tobacco moths  
Trogoderma beetles  
Warehouse beetles  
Waterbugs  
Yellow mealworms

*{The above list of insects may be listed in paragraph format.}*

### Indoor Use Areas

#### For use in the following indoor areas:

Animal areas and quarters  
Animal shelters  
Animal control centers  
Apartments  
Arcades  
Attics  
Auditoriums  
Bakeries  
Beverage plants  
Bars  
Basements  
Bathrooms  
Boats  
Bottling plants  
Breweries  
Brewery warehouses  
Buildings  
Buses  
Cabins  
Cabinets  
Cafeterias  
Campers  
Canneries  
Cattle barns  
Churches  
City missions  
Circus tents

Closets  
Club houses  
Commercial buildings  
Communication centers  
Condominiums  
Concession stands  
Court houses  
Crawl spaces  
Crematoriums  
Dairy and livestock barns  
Day care centers  
Delicatessens  
Department stores  
Diners  
Dog houses  
Storage or processing areas that  
contain dried fruit products  
Drugstores  
Dumpsters  
Dwellings  
Egg processing plants  
Factories  
False ceilings  
Freight containers  
Fruit packing sheds  
Funeral parlors  
Garbage bins

Garbage cans  
Garbage compactors  
Garbage trucks  
Gas stations  
Grain elevators  
Grain harvesting and handling  
equipment  
Garages  
Grain mills  
Granaries  
Grocery stores  
Homes  
Horse stables and barns  
Horse trailers  
Hospices  
Hospitals  
Hotels  
Indoor eating establishments  
Industrial installations  
Institution dining areas  
Institutions  
Jails  
Kennels  
Laboratories  
Laundromats  
Lavatories  
Libraries

Liquor stores  
Livestock barns  
Livestock hauling equipment  
Loafing sheds  
Locker rooms  
Milk rooms  
Mills  
Mausoleums  
Meat packing plants  
Mess halls  
Mini storages  
Mobile canteens  
Mobile homes  
Morgues  
Mortuaries  
Motels  
Movie theaters  
Museums  
Mushroom processing areas  
Nursing homes  
Office buildings  
Other public buildings  
Parking garages  
Passenger railroad cars

Peanut warehouses  
Pool halls  
Poultry houses  
Poultry plants  
Pounds  
Prisons  
Public storages  
Rabbit processing plants  
Railroad cars  
Recreational vehicles  
Research animal quarters  
Restaurants  
Retail stores  
Rice mills  
Schools  
Ships  
Ship holds  
Smoke shops  
Sports stadiums  
Stables  
Storage bins (areas)  
Storage areas for food in multi-walled paper or cloth bags  
Stores

Supermarkets  
Swine houses  
Taverns  
Textile mills and warehouses  
Theaters  
Tobacco factories  
Tobacco warehouses  
Tool sheds  
Trains  
Transportation equipment  
Trucks  
Trailers  
Tunnels  
Utilities  
Utility rooms  
Vending machines  
Veterinary hospitals  
Wall and equipment voids  
Warehouses  
Washrooms  
Wholesale stores  
Wine cellars  
Wineries  
Zoos and other similar areas

*{The above Indoor Use Areas may be listed in paragraph format.}*

### Outdoor Use Areas

#### For use in the following outdoor areas:

Alleys  
Amphitheaters  
Amusement parks  
Athletic [(baseball, football, soccer)] fields  
Back yards  
Balconies  
Baseball fields  
Bleachers  
Bridges  
Car washes  
Campgrounds  
Circuses  
Construction sites  
Corrals  
Courtyards  
Curbs  
Drive-in restaurants

Drive-in theaters  
Dumpsters  
Fair grounds  
Feedlots  
Front yards  
Game fields  
Garbage dumps  
Gazebos  
Golf courses  
Grandstands  
Junk yards  
Kennels  
Levees  
Manure piles  
Outdoor eating establishments  
Parks  
Parking lots  
Patios

Playgrounds  
Ranges  
Recreational areas  
Rest areas  
Roadsides  
Rooftops  
Sanitary sewers (Manholes)  
Side yards  
Side walks  
Stadiums  
Tennis courts  
Truck stops  
Underpasses  
Utility rooms outdoors  
Weigh stations  
Wild animal parks  
Wood piles  
Zoos and other similar areas

*{The above Outdoor Use Areas may be listed in paragraph format.}*

#### For Use On The Following Listed Animals

Beefalo  
Birds

Buffalo  
Calves

Cattle [beef] [milking]  
Chickens

Donkeys	Llamas	Quail
Ducks	Mules	Ratites
Emus	Ostrich	Roosters
Exotics such as European red deer	Oxen	Sheep
Geese	Pheasants	Swine
Horses	Pigs	Turkeys
Lambs	Ponies	
	Pullets	

{The above may be listed in paragraph format.}

### Indoor Uses – Undiluted

**ULV and Space Spray:** Use in aerosol generators to kill exposed accessible stages of *Aedes* Mosquitoes, Ants (excluding Fire, Harvester, and Pharaoh ants), *Anopheles* Mosquitoes, Boxelder bugs, Clover mites, Cheese mites, Cheese skippers, Earwigs, Gnats, House flies, Small flying moths, and Stable flies and the following common stored product pests: Angoumois grain moths, Cadelles Cigarette Beetles, Confused flour beetles, Dark mealworms, Drugstore beetles, Grain mites, Granary weevils, Indian meal moths, Mediterranean flour moths, Red flour beetles, Rice weevils, Saw-toothed grain beetles, Spider beetles, Tobacco moths and Yellow mealworms. Close room and shut off all air conditioning or ventilating equipment. Apply at the rate of 1/2 to 1 fluid ounce concentrate per 1,000 cubic feet of space (0.52 to 1.04 ml/m<sup>3</sup>). Direct the spray toward the ceiling and upper corners of the area and behind obstructions. Leave room closed for 1/2 hour [30 minutes] and ventilate thoroughly before re-entry.

**Contact and Space Spray:** To kill American Cockroaches, Ants (excluding Fire, Harvester, and Pharaoh ants), Black Widow spiders, Earwigs, German Cockroaches, and Silverfish: Use a mechanical aerosol generator or a fogger adjusted to deliver aerosol droplets. To provide maximum penetration and impingement on the insects, first, direct the spray into all crack and crevices, behind all equipment, cupboards, obstructions or dark harborage areas, on walls and floors, underneath sinks, behind pipes and in all places that harbor insects. Contact as many insects as possible. Do not allow spray to contact stored food. Second, treat as a space spray, directing the spray toward the ceiling and upper corners of room, at a rate of 1 fluid ounce per 1,000 cubic feet of space (1.04 mg/m<sup>3</sup>). Vacate treated area and leave the room closed for 1 hour [60 minutes]. Thoroughly ventilate before re-entry. Facilities and equipment in Federally-inspected meat and poultry plants must be washed with an effective cleaning compound and rinsed with potable water after spraying.

**Dried Fruit Product Storage Areas:** To kill Almond moths, American Cockroaches, Ants (excluding Fire, Harvester, and Pharaoh ants), Cereal beetles, Chocolate moths, Cigarette beetles, Confused flour beetles, Crickets, Earwigs, Dried fruit beetles, Fruit flies, Fungus gnats, German Cockroaches, House flies, Indian meal moths, Khapra beetles, Mediterranean flour moths, Red flour beetles, Saw-toothed grain beetles, Stable flies, Silverfish and Warehouse beetles. Do not apply to fruit directly. Apply as a fine mist or fog in the area above and around the trays, bins and shelves at the rate of 1 fluid ounce per 1,000 cubic feet of space (1.04 mg/m<sup>3</sup>). Repeat application at this dosage as required.

**Treatment of Stored Food Areas:** Food in cloth bags, multi-walled bags or other packaging stored in listed areas to kill accessible adult states of: *Aedes* Mosquitoes, Almond moths, American Cockroaches, Angoumois grain moths, *Anopheles* Mosquitoes, Ants (excluding Fire, Harvester, and Pharaoh ants), Black Widow spiders, Cadelles, Cereal beetles, Cheese mites, Cheese skippers, Chocolate moths, Cigarette beetles, Coffee bean weevils, Confused flour beetles, Crickets, Dark mealworms, Dried Fruit Beetles, Drugstore beetles, Earwigs, Firebrats, Fruit flies, Fungus gnats, German Cockroaches, Grain mites, Granary weevils, Hide beetles, House flies, Indian meal moths, Khapra beetle, Lesser grain beetles, Mediterranean flour moths, Red flour beetles, Rice weevils, Rusty grain beetles, Saw-toothed grain beetles, Silverfish, Small flying moths, Spider beetles, Stable flies, Warehouse beetles and Yellow mealworm. Destroy, fumigate or treat infested stored products by other effective methods using an approved product intended for this purpose. As noted above, first disperse by directing spray into cracks and crevices, corners, pallets and around stacks of packaged goods hitting as many insects as possible and then apply as a space spray at the

rate of 1 fluid ounce per 1,000 cubic feet of room space (1.04 ml/m<sup>3</sup>). Vacate treated area and ventilate before re-entry.

**On Beans (including Cocoa), Nuts (Almonds and Walnuts), Peanuts, Seeds (Birdseed mixtures, cotton seed and flax seed) and Copra in Bulk, Bags or other Packaging:** To kill accessible stages of: *Aedes* Mosquitoes, Almond moths, American Cockroaches, Angoumois grain moths, *Anopheles* Mosquitoes, Ants (excluding Fire, Harvester, and Pharaoh ants), Black Widow spiders, Cadelles, Cereal beetles, Cheese mites, Cheese skippers, Chocolate moths, Cigarette beetles, Coffee bean weevils, Confused flour beetles, Crickets, Dark mealworms, Dried Fruit beetles, Drugstore beetles, Earwigs, Firebrats, Fruit flies, Fungus gnats, German Cockroaches, Grain mites, Granary weevils, Hide beetles, House flies, Indian meal moths, Khapra beetle, Lesser grain beetles, Mediterranean flour moths, Red flour beetles, Rice weevils, Rusty grain beetles, Saw-toothed grain beetles, Silverfish, Small flying moths, Spider beetles, Stable flies, Warehouse beetles, Yellow mealworm: Apply to the surface of stored or bagged products at the rate of 1/4 fluid ounce per 1,000 square feet (0.08 mg/m<sup>2</sup>). Thoroughly spray walls, floors and surfaces of bins, storage and handling areas, being especially careful to treat cracks, crevices and other hiding places. Then apply as a space spray by directing the spray toward the ceiling and upper corners of the areas and behind any obstructions. Apply at the rate of 1 fluid ounce per 1,000 cubic feet of room space (1.04 mg/m<sup>3</sup>). Vacate treated area and ventilate before re-entry.

#### Indoor Uses – Diluted

**Space Spray:** For use in mechanical fogging or spraying equipment to kill accessible stages of *Aedes* Mosquitoes, Almond moths, American Cockroaches, Angoumois grain moths, *Anopheles* Mosquitoes, Ants (excluding Fire, Harvester, and Pharaoh ants), Black Widow spiders, Cadelles, Cereal beetles, Cheese mites, Cheese skippers, Chocolate moths, Cigarette beetles, Coffee bean weevils, Confused flour beetles, Crickets, Dark mealworms, Dried Fruit beetles, Drugstore beetles, Earwigs, Firebrats, Fruit flies, Fungus gnats, German Cockroaches, Grain mites, Granary weevils, Hide beetles, House flies, Indian meal moths, Khapra beetles, Lesser grain beetles, Mediterranean flour moths, Red flour beetles, Rice weevils, Rusty grain beetles, Saw-toothed grain beetles, Silverfish, Small flying moths, Spider beetles, Stable flies, Warehouse beetles and Yellow mealworm. Remove or cover exposed food and cover food-handling surfaces in edible product areas of food handling establishments. Close room and shut off all air conditioning or ventilating equipment. Dilute at the rate of 1 part concentrate in 1 to 10 parts water and mix well. Apply at the rate of 1 to 2 fluid ounces concentrate per 1,000 cubic feet of space (1.04 to 2.08 mg/m<sup>3</sup>), filling the room with mist. Vacate treated area and ventilate before re-entry.

**Dilution Table for ULV Foggers**

Dilution Ratio		Fluid Ounces of Concentrate Per Ounce of Solution Volume	Fluid Ounces of Water Per Ounce of Solution Volume	Pounds of Pyrethrum Per 1,000 Cubic Feet When Applied at 1 Fluid Ounce Per 1,000 Cubic Feet	Percent Pyrethrins in Solution (%)
Concentrate	Water				
Undiluted		1.00 (29.57 ml)	0.00	0.0033 (0.00148 Kg)	5.060
1	1	0.50 (14.78 ml)	0.50 (14.78 ml)	0.00165 (0.00074 Kg)	2.530
1	2	0.33 (9.68 ml)	0.67 (19.81 ml)	0.00110 (0.00049 Kg)	1.687
1	2.25	0.31 (9.17 ml)	0.69 (20.40 ml)	0.00101 (0.00045 Kg)	1.557
1	2.5	0.29 (8.57 ml)	0.71 (20.99 ml)	0.00094 (0.00042 Kg)	1.446
1	3	0.25 (7.39 ml)	0.75 (22.18 ml)	0.00082 (0.00037 Kg)	1.265
1	4	0.20 (5.91 ml)	0.80 (23.66 ml)	0.00066 (0.00030 Kg)	1.012
1	5	0.17 (5.03 ml)	0.83 (24.54 ml)	0.00055 (0.00025 Kg)	0.843
1	6	0.14 (4.14 ml)	0.86 (25.43 ml)	0.00047 (0.00021 Kg)	0.723
1	7	0.13 (3.84 ml)	0.88 (26.02 ml)	0.00041 (0.00018 Kg)	0.632
1	8	0.11 (3.25 ml)	0.89 (28.32 ml)	0.00037 (0.00017 Kg)	0.562

Dilution Ratio		Fluid Ounces of Concentrate Per Ounce of Solution Volume	Fluid Ounces of Water Per Ounce of Solution Volume	Pounds of Pyrethrum Per 1,000 Cubic Feet When Applied at 1 Fluid Ounce Per 1,000 Cubic Feet	Percent Pyrethrins in Solution (%)
Concentrate	Water				
1	9	0.10 (2.96 ml)	0.90 (26.62 ml)	0.00033 (0.00015 Kg)	1.506
1	10	0.09 (2.66 ml)	0.91 (25.91 ml)	0.00030 (0.00013 Kg)	0.460

**Example:** To determine how much concentrate to put into a 44 fluid ounce (1,301 ml) fogger tank to achieve a mix of 1 part concentrate with 5 parts water, multiply 0.17 (from chart above) times 44 (fluid ounces of solution needed) = 7.48 fluid ounces (221 ml) of concentrate (with rounding). Fill remainder of tank volume with 36.52 fluid ounces (1,079.8 ml) of water (38.5 (1,080) with rounding) to a total of 44 fluid ounces (1,301 ml).

**For Use in Meat and Poultry Processing Plants:** Dilute 1 part concentrate with 4 parts water and use with a ULV spraying device at the rate of 1 fluid ounce per 1,000 cubic feet (1.04 ml/m<sup>3</sup>) of room space. Apply the spray into all cracks and crevices in woodwork, walls and floors, underneath sinks, behind pipes and in all places that shelter insects. Contact as many insects as possible. Before use, exposed food products and packaging material must be covered or removed. After use, equipment and utensils must be washed with an effective cleaning compound and rinsed with potable water. Use as a space spray only when plant is not in operation. Repeat as necessary but not more than once per day. Do not reapply with 1 day.

**Surface Spray:** To kill accessible stages of American Cockroaches, Beetles, Crickets, German Cockroaches, and Silverfish: Dilute 1-3 ounces (30-89 mL) of concentrate with 1 gallon of water, mix well and apply as a coarse wetting spray using approximately 1 gallon of spray mixture per 750 square feet (54 ml/m<sup>2</sup>) of surface. To ensure maximum control of listed crawling insects, thoroughly spray into all cracks, molding, crevices, walls, floors, and other surfaces of bins and storage and handling areas. Pay particular attention to areas where moisture collects such as around drains, sinks, water pipes and around the base of heavy machinery and equipment, contacting as many insects as possible.

**Ants (excluding Fire, Harvester and Pharaoh ants):** Spray directly into nests, along trails and directly on all ants observed.

**For In-transit Protection:** To kill accessible stages of listed insects, clean and spray truck beds, boxcars, ship holds and other listed transit equipment before loading. Thoroughly treat walls and floors and lightly spray each layer of cartons or containers as stacked. Apply diluted spray at the rate of 1 gallon per 1,000 square feet (40 ml/m<sup>3</sup>).

**Treatment of Stored Grain: To kill accessible stages of Angoumois grain moths and Indian meal moths:** Apply diluted spray to the surface of binned grain at a rate of 0.5 gallons per 1,000 cubic feet (7 ml/m<sup>3</sup>). Apply at monthly intervals at the first appearance of infestation. In severe infestation of flying moths, break up webbing with a rake before spraying and make a second application 2 weeks later.

**Storage Areas for Dried Fruit Products: To kill Confused flour beetles, Dried fruit beetles, Indian meal moths and Saw-toothed grain beetles:** Remove and destroy infested products. Apply diluted spray as a fine mist in the air above the trays and shelves. Do not apply directly to fruit. Use 1 fluid ounce per 1,000 cubic feet (1.04 ml/m<sup>3</sup>) of space. Repeat application at this dosage in any given month. Leave the room closed for 1 hour. Vacate treated areas and ventilate the area before re-entry. Sweep up and destroy fallen insects.

**Food Storage Areas:** Containing multi-walled bags, cloth bags and other packaging in warehouses, storage rooms, flour mills, grain elevators, granaries and other listed areas to **kill Angoumois grain moths, Cadelles, Cheese mites, Cheese skippers, Cigarette beetles, Confused flour beetles, Dark mealworms, Grain mites, Granary**



**weevils, Indian meal moths, Mediterranean flour moths, Red flour beetles, Rice weevils, Saw-toothed grain beetle and Yellow mealworms:** Remove and destroy infested products. First, disperse diluted spray by directing spray into corners, under pallets and around stacks of packaged foods, hitting as many insects as possible; and then treat as a space spray. Fumigate infested stored products or treat by other effective methods using an approved product intended for this purpose. Use at a rate of 1-2 fluid ounces per 1,000 cubic feet (1.04-2.08 ml/m<sup>3</sup>) of space. Vacate treated areas and ventilate before re-entry. This application will kill exposed stages of listed stored product pests listed. Sweep up and destroy fallen insects.

**For Use on Animals:** To protect: beef/dairy cattle and horses from Gnats, Horn flies, and Houseflies, dilute 1 part concentrate with 49 parts water, mix well and apply a light mist sufficient to wet the tips of the hair. To kill *Aedes* Mosquitoes, *Anopheles* Mosquitoes, and Stable flies, on animals apply 2 fluid ounces (60 ml) per adult animal in an amount sufficient to wet the hair but not to soak the hide. Repeat treatment once or twice daily or at intervals to give continued protection.

To kill Poultry lice, thoroughly spray roosts, walls and nests or cages with a dilution of 1 part concentrate in 25 parts water, followed by spraying over the birds with a fine mist.

**Animal Quarter Use – Dairy/ Beef Barns, Poultry Houses, Swine Housing and Other Listed Areas:** For use in and around listed use areas to kill accessible stages of *Aedes* Mosquitoes, American Cockroaches, *Anopheles* Mosquitoes, Black Widow spiders, Brown dog ticks, Clover mites, Crickets, Darkling beetles, Earwigs, Face flies, Fannia flies, Firebrats, German Cockroaches, Horn flies, House flies, Silverfish, Small flying moths, and Stable flies. Apply as a space spray in conventional ULV cold aerosol generator or fogger adjusted to deliver aerosol size droplets. Whenever possible perform space spray application in the late evening when insects are at rest. Apply undiluted at the rate of 0.25-1.0 fluid ounces per 1,000 cubic feet (0.26-1.04 ml/m<sup>3</sup>) of space above the animals. This concentrate may also be diluted with water at the ratio of 1 part concentrate to 10 parts water and applied at the rate of 1-2 fluid ounces per 1,000 cubic feet (1.04-2.08 mg/m<sup>3</sup>) of space above the animals. Direct spray toward the upper portions of the enclosure, above the animals, filling the room with mist or fog. Vacate treated area and ventilate before re-occupying.

To kill Mites in poultry houses, prepare a dilution of 1 part concentrate to 25 parts water and spray crevices of roost poles and cracks in walls and nests where the Bedbugs and Mites hide.

**For Use in Automatic ULV Spraying Systems, in areas such as Animal quarters, Dairy/Beef barns, Poultry houses, Swine housing, Warehouses, Residential backyards and other listed indoor and outdoor areas.**

**Note:** Not registered for use in Automatic ULV Spraying Systems in the State of New York.

Use to kill, or temporarily reduce annoyance from, accessible stages of *Aedes* Mosquitoes, American Cockroaches, *Anopheles* Mosquitoes, Black Widow spiders, Brown dog ticks, Clover mites, Crickets, Darkling beetles, Earwigs, Fannia flies, Face flies, Firebrats, German Cockroaches, Gnats, Horn flies, House flies, Silverfish, Small flying moths, and Stable flies, and other nuisance insects.

Mix 1/2 gallon (66.56 ml) of concentrate in 55 gallons (208 L) of water to yield a solution of 0.046% Pyrethrins and 0.23% Piperonyl Butoxide. For high populations of insects, or when treating species that are difficult to control, mix up to 1 gallon of concentrate in 55 gallons (208 L) of water to yield a solution of 0.093% Pyrethrins and 0.46% Piperonyl Butoxide. When filling tank, partially fill the system reservoir tank with water, add concentrate, and then fill the rest of the tank with water. Set system nozzles to deliver fine particle size droplets (aerosol or mist) with a delivery rate not to exceed 1.25 fluid ounces (1.3 mL) of solution per minute, with 1 nozzle covering 100 square feet (9.29 m<sup>2</sup>). Set system timer to operate in accordance with equipment directions.

**Automatic Spraying System Dilution Table**

<b>A. System Tank Size</b> (in gallons)	<b>B. Conversion Factor</b> (Fluid ounces of Concentrate per gallon of water)	<b>A. x B. = fluid ounces of Concentrate for specific tank size, to be mixed with water to achieve 0.046% pyrethrin solution.</b>
1 (3.78 L)	1.16 (34.34 ml)	1.16 (9 ml/L)
15 (56.7 L)	1.16 (34.34 ml)	17 (0.60 ml/L)
20 (75.6 L)	1.16 (34.34 ml)	23 (0.45 ml/L)
30 (113.4 L)	1.16 (34.34 ml)	35 (0.30 ml/L)
55 (208 L)	1.16 (34.34 ml)	64 (0.16 ml/L)

Since high water temperatures can degrade pyrethrins, it is recommended that system tanks be sheltered or insulated from direct exposure to the sun. Use of an EPA-approved antimicrobial agent is also recommended. For best performance the spray solution pH should be in the range from 5.5-7.0. Avoid setting up systems nozzles in a manner that delivers spray solution into swimming pools or pools containing fish and other organisms that are sensitive to Pyrethrins. Automatic systems must be programmed so as not to activate and/or release pesticides when people, pets and food or feed are present. Install a rain sensor and a wind sensor on the system to control drift and runoff. Lock the system reservoir tank and securely attach a legible copy of the label to the system reservoir tank or on the outside of the system timer. Never use concentrate in an evaporative cooling system.

This product will kill insects directly contacted by its spray solution. Since many of the targeted insects can migrate in and out of treatment areas, it is recommended that this concentrate be used as part of an Integrated Pest Management (IPM) program. Kill practices such as, but not limited to, eliminating breeding and harborage sites, combined with appropriate use of contact insecticides, Insect Growth Regulators (IGRs) and/or residual insecticides will provide the most effective killing of target insects.

### **Outdoor Uses**

To kill accessible stages of listed flying insects in listed outdoor areas. Apply as a space spray application in the evening or early morning when mosquitoes are typically most active. With a ULV spraying device, spray at a dosage rate of 5 fluid ounces of undiluted concentrate per minute up-wind of the area to be controlled. If the equipment is truck mounted, keep the speed at approximately 10 mph with a swath width of 300 feet (91.44 m).

**Temporary Reduction of Annoyance** from Flies, Mosquitoes and Small flying moths: The afore-mentioned outdoor ground application will provide temporary relief of annoyance from these pests in listed outdoor areas. Direct application into tall grass and shrubbery and around lawns where these pests hover or rest. Apply while air is still. In areas such as zoos, cover water, drinking fountains and animal feed before use.

#### **To Kill Listed Pests on Shrubs, Fruit and Shade Trees:**

**Pests:** Aphids, Apple skeletonizers, Bagworms, Bean beetles, Cabbageworms, Codling moths, Cutworms, European pine shoot moths, Flea beetles, Hemlock woolly adelgids, Holly bud moths, Lacebugs, Leafhoppers, Leafminers, Leafrollers, Mealybugs, Oak loopers, Obscure root weevils, Omnivorous leaf tiers, Pear slugs, Scale crawlers, Spider mites, Tent caterpillars, Thorn skeletonizers, Thrips, Webworms and Whiteflies.

**Plants:** Birch, Crabapple, Dogwood, Douglas Fir, Elm, Euonymus, Hawthorn, Hemlock, Holly, Juniper, Lilac, Locust, Maple, Oak, Plum, Pine, Poplar, Spruce, Sycamore, Willow and Yew.

**Mixing Instructions:** For Shrubs and Shade Trees, follow directions on applicator to obtain 4 tbs. (60 ml) concentrate per gallon of water.

1 Tablespoon (tbs.) = 3 teaspoons (tsp.)  
1 fluid ounce (60 mL) = 2 tbs.

**How to Apply:** Spray to wet plant leaves and branches until dripping.

**Around House Foundation:**

**Nuisance Pests Outdoors:** Ants, Boxelder bugs, Brown dog ticks, Chiggers, Clover mites, Cockroaches, Crickets, Earwigs, Fleas, Flies, Millipedes, Scorpions, Sowbugs, Spiders and Springtails.

**Mixing instructions:** Around House Foundation follow directions on applicator to obtain 4 tbs. (59.14 mL) concentrate per gallon of water.

1 Tablespoon (tbs.) = 3 teaspoons (tsp.)  
1 fluid ounce (60 mL) = 2 tbs.

**How to apply:** To keep insects from entering the house, spray a 5 foot (1.52 m) band of soil around the house next to the foundation. Also spray the foundation of the house to a height of 2 feet (0.61 m). Also, spray walks, firewood piles, garbage cans, tree trunks, into cracks and other places where insects can hide.

*{For product in rigid, non-refillable containers less than or equal to 5 gallons:}*

**Storage and Disposal**

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

**Pesticide Storage:** Store in original container in a cool, dry (preferably locked) area that is away from food and pet food, and in a place that is inaccessible to children and animals.

**Pesticide Disposal:** Wastes resulting from the use of this product must be disposed on site or at an approved waste disposal facility.

**Container Handling:** Non-refillable 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 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 other procedures approved by State or local authorities.

*{For product in rigid, non-refillable containers greater than 5 gallons:}*

**Storage and Disposal**

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

**Pesticide Storage:** Store in original container in a cool, dry (preferably locked) area that is away from food and pet food, and in a place that is inaccessible to children and animals.

**Pesticide Disposal:** Wastes resulting from the use of this product must be disposed on site or at an approved waste disposal facility.

**Container Handling:** Non-refillable container; do not reuse or refill this container. Triple rinse (or equivalent) container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State or local authorities.

*{For product in rigid, refillable containers:}*

### **Storage and Disposal**

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

**Pesticide Storage:** Store in original container in a cool, dry (preferably locked) area that is away from food and pet food, and in a place that is inaccessible to children and animals.

**Pesticide Disposal:** Wastes resulting from the use of this product must be disposed on site or at an approved waste disposal facility.

**Container Handling:** Refillable container; refill this container only with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before refilling is the responsibility of the refiller; cleaning before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water, then vigorously agitate or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure 2 more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State or local authorities.

*{Per PR Notice 2007-4 the batch code/lot number will appear on the label or container.}*

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

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

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

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

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

Manufactured by:



**Control  
Solutions Inc.**

5903 Genoa-Red Bluff Road  
Pasadena, Texas 77507