



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

March 6, 2017

Shannon Cooley
Regulatory Specialist
Control Solutions Inc.
5903 Genoa Red Bluff
Pasadena, TX 77507

Subject: Label Amendment – To correct typographical errors and make other minor revisions
Product Name: CSI Py-PBO 5-25 ULV
EPA Registration Number: 53883-333
Application Date: 06 February 2017
Decision Number: 526023

Dear Ms. Cooley:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

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with FIFRA section 6. If you have any questions, please contact Helen Hull-Sanders by phone at 703-347-0243, or via email at hull-sanders.helen@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read "Gene Benbow".

Gene Benbow, Acting Product Manager 4
Invertebrate & Vertebrate Branch 1
Registration Division (7505P)
Office of Pesticide Programs

03/06/2017

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 53883-333**CSI PY-PBO 5-25 ULV***{Front panel}*

*Alternate Brand Name(s): Stryker 5-25, Stryker 5:25,
Stryker 525, CSI Stryker 5-25, CSI Stryker 5:25, CSI Stryker
525*

*[[Select marketing claims from "Marketing Claims" section]]***Active Ingredients:**

Pyrethrins (CAS No. 8003-34-7) 5%
Piperonyl butoxide* (CAS No. 51-03-6) 25%

Other Ingredients 70%

Total 100%

*(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. _____

Net Contents: ____pints [(____fl. oz.) (____mL)]

*{Back/Side Panel}***First Aid**

If Swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or a doctor. • Do not give anything by mouth to an unconscious person
If on Skin or Clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
<p>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.</p>	

{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	Peanut warehouses	Supermarkets
Livestock barns	Pool halls	Swine houses
Livestock hauling equipment	Poultry houses	Taverns
Loafing sheds	Poultry plants	Textile mills and warehouses
Locker rooms	Pounds	Theaters
Milk rooms	Prisons	Tobacco factories
Mills	Public storages	Tobacco warehouses
Mausoleums	Rabbit processing plants	Tool sheds
Meat packing plants	Railroad cars	Trains
Mess halls Mini	Recreational vehicles	Transportation equipment
storages Mobile	Research animal quarters	Trucks
canteens Mobile	Restaurants	Trailers
homes Morgues	Retail stores	Tunnels
Mortuaries	Rice mills	Utilities
Motels	Schools	Utility rooms
Movie theaters	Ships	Vending machines
Museums	Ship holds	Veterinary hospitals
Mushroom processing areas	Smoke shops	Wall and equipment voids
Nursing homes	Sports stadiums	Warehouses
Office buildings	Stables	Washrooms
Other public buildings	Storage bins (areas)	Wholesale stores
Parking garages	Storage areas for food in multi-	Wine cellars
Passenger railroad cars	walled paper or cloth bags	Wineries
	Stores	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	Drive-in theaters	Playgrounds
Amphitheaters	Dumpsters	Ranges
Amusement parks	Fair grounds	Recreational areas
Athletic [(baseball, football,	Feedlots	Rest areas
soccer)] fields	Front yards	Roadsides
Back yards	Game fields	Rooftops
Balconies	Garbage dumps	Sanitary sewers (Manholes)
Baseball fields	Gazebos	Side yards
Bleachers	Golf courses	Side walks
Bridges	Grandstands	Stadiums
Car washes	Junk yards	Tennis courts
Campgrounds	Kennels	Truck stops
Circuses	Levees	Underpasses
Construction sites	Manure piles	Utility rooms outdoors
Corrals	Outdoor eating establishments	Weigh stations
Courtyards	Parks	Wild animal parks
Curbs	Parking lots	Wood piles
Drive-in restaurants	Patios	Zoos and other similar areas

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

For Use On The Following Listed Animals

Beefalo	Buffalo	Cattle [beef] [milking]
Birds	Calves	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/m³). 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, using no more than 17 fl. ounces of concentrate per 1,000 sq. ft. 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 ml/m³). 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 ml/m³). 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, using no more than 17 fluid oz. of concentrate per 1,000 sq. ft. 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/m³). 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 ml/m²). 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 0.33 or 1/3 fluid ounce of concentrate per 1,000 cubic feet of room space. Vacate treated area and ventilate before re-entry. Do not apply more than 1 time per day. Do not reapply within 7 days. Do not apply more than 10 times to sweet potatoes.

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 of diluted product per 1,000 cubic feet of space (1.04 to 2.08 ml/m³), 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 (26.32 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)	0.506
1	10	0.09 (2.66 ml)	0.91 (26.91 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 (211 ml) of concentrate (with rounding). Fill remainder of tank volume with 36.52 fluid ounces (1,079.8 ml) of water (36.5 (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/m³) 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 3 fluid ounces of concentrate with 1 gallon of water, mix well and apply as a coarse wetting spray using approximately 1 gallon of spray mixture per 1,000 square feet 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. Dilute 3 fluid ounces of concentrate with 1 gallon of water for each 1,000 sq. ft. of area to be treated.

Treatment of Stored Grain: To kill accessible stages of Angoumois grain moths and Indian meal moths: Dilute 3 fl. oz. of product with 1 gallon for each 1,000 bushels of grain to be treated. Apply diluted spray to the surface of binned grain. Apply at monthly intervals with the first appearance of infestation. In severe infestation of flying moths, break up webbing with a rake before spraying and make a second application in 2 weeks. Do not reapply within 30 days.

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. Dilute at the rate of 1 part concentrate into 1 to 10 parts water and mix well. Use 1 fluid ounce per 1,000 cubic feet (1.04 ml/m³) 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. Dilute at the rate of 1 part concentrate into 1 to 10 parts water and mix well. Use at a rate of 1-2 fluid ounces per 1,000 cubic feet (1.04-2.08 ml/m³) 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 *Aedes* Mosquitoes, *Anopheles* Mosquitoes, Gnats, Horn flies, and Houseflies, dilute 1part 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 1part concentrate in 25 parts water, followed by spraying over the birds with a fine mist. Do not apply more than 1 time per day.

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/m³) 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 of diluted product per 1,000 cubic feet (1.04-2.08 ml/m³) 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 1part concentrate to 25 parts water and spray crevices of roost poles and cracks in walls and nests where the Bedbugs and Mites hide. Do not apply more than 1 time per day.

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 (1,892ml) 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 m²). Set system timer to operate in accordance with equipment directions.

Automatic Spraying System Dilution Table

A. System Tank Size (in gallons)	B. Conversion Factor (Fluid ounces of Concentrate per gallon of water)	A. x B. = fluid ounces of Concentrate for specific tank size, to be mixed with water to achieve 0.046% pyrethrin solution.
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 (30 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 (30 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.

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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 for:] [Distributed by:]

Control Solutions, Inc.

5903 Genoa-Red Bluff
Pasadena, TX 77507-1041

{Marketing Claims}

Area Spray
Contact Spray
Effective
Fast Acting
For use [on] {select from sites listed in Directions for Use}
Flushing Action
Hose-end Applications
Kills {select from insects listed on label}
Quick Knockdown
Space Spray
ULV Spray
Water-based ULV

{End of Marketing Claims}

[] Denotes alternate/optional language
{ } Denotes language that does not appear on the market labeling