

48665-6

6/22/2010

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7504P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460-0001

EPA Reg. Number:  
**48665-6**

Date of Issuance:  
**June 22, 2010**

NOTICE OF PESTICIDE:  
 Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:  
**Conditional**

Name of Pesticide Product:  
*Shoo-fly Concentrate 1 Misting Concentrate*

Name and Address of Registrant (include ZIP Code):

SHOO-FLY  
10337 North U.S. Highway 27  
Ocala, FL 34482-1846

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with section 3(c)(7)(A) of FIFRA provided that you:

1. Submit and/or cite all data required for registration of your product under section 3(c)(5) of FIFRA when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under section 4 of FIFRA.

(continued on page 2)

Signature of Approving Official:

Refer to Page #4.  
Richard J. Gebken, Product Manager (10)  
Insecticide Branch, Registration Division (7504P)

Date:

**June 22, 2010**

EPA Form 8570-6

2. Make the following change to the label:

- a. Change the product registration number to "EPA Reg. No. 48665-6"
- b. Make the following label revisions:

General Comment(s):

- 1. Delete all text throughout the label marked with "~~strike through~~."
- 2. Remove all use directions/text associated with outdoor residential misting systems from the subject label.
- 3. Revise the subsection header "**FOR THE CONTROL OF INSECTS including but not limited to:**" to read "**TO KILL EXPOSED ACCESSIBLE STAGES OF THE FOLLOWING LISTED INSECTS:**"
- 4. Revise the subsection header "**INDOOR AREAS for use in but not limited to:**" to read "**FOR USE IN INDOOR AREAS such as:**" and revise the use site "Planes" to read "Planes (cargo area only)"
- 5. Revise the subsection header "**OUTDOOR AREAS for uses in and around, but not limited to:**" to read "**FOR USE IN OUTDOOR AREAS such as:**"
- 6. Revise the subsection header "**FOR USE ON but not limited to:**" to read "**FOR USE ON:**"

Optional Marketing Claims comment(s):

- 7. Within the 3<sup>rd</sup> optional marketing claim, delete the words "and repels" since pyrethrins is not considered a repellent.
- 8. Within the 4<sup>th</sup> optional marketing claim, replace the word "Controls" with the word "Kills."
- 9. Revise the 5<sup>th</sup> optional marketing claim to read "**CONCENTRATE 1** kills listed insects without objectionable residue."

Ingredient Statement section comment(s):

- 10. For consistency, within the footnote for Piperonyl Butoxide, Technical, revise "6.0%" to read "6%"

First Aid section comment(s):

- 11. Revise the 2<sup>nd</sup> sentence within the last statement in this section to read "For additional information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), you may call 1-888-740-8712 twenty-four (24) hours per day, seven (7) days per week."

Precautionary Statements, Hazards to Humans and Domestic Animals subsection comment(s):

- 12. Revise the existing subsection to read "Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. 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."

Precautionary Statements, Environmental Hazards subsection comment(s):

- 13. To facilitate inclusion of language from the REDs for pyrethrins and piperonyl butoxide, revise this section to read:

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

This product is highly toxic to bees exposed to direct treatment on 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. See Directions for Use for additional precautions and restrictions."

Precautionary Statements, Physical or Chemical Hazards subsection comment(s):

- 14. Insert the following statement immediately preceding the existing statement in this subsection: "**Combustible.**"

Directions for Use section comment(s):

15. To facilitate inclusion of language from the REDs for pyrethrins and piperonyl butoxide, add the following new subsection in its own text box immediately following the statement "It is a violation of Federal Law ..." as follows:

USE RESTRICTIONS & PRECAUTIONS
<ul style="list-style-type: none"><li>• Apply this product only as specified on this label.</li><li>• Do not contaminate food or feedstuffs.</li><li>• Not for use in outdoor residential misting systems.</li><li>• Do not use in aircraft cabins.</li><li>• Do not wet articles to point of run-off. Do not use treated article until spray has dried.</li><li>• Do not allow adults, children or pets to enter until aerosols, vapors and/or mists have dispersed, and the treated area has been thoroughly ventilated.</li><li>• Do not apply this product in a way that will contact workers or other persons, either directly or through drift.</li><li>• Do not remain in treated area. Exit area immediately and remain outside the treated area until aerosols, vapors and/or mists have dispersed.</li><li>• 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.</li><li>• For indoor food handling/processing facilities: Do not make space spray applications when facility is in operation. During space spray applications, cover or remove exposed food. During space spray applications, cover food processing surfaces or clean after treatment with a suitable detergent, rinse with potable water before use.</li><li>• For use 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.</li><li>• For use in commercial animal premise automatic misting systems: Not for use in outdoor residential misting systems (indoor or outdoor). Do not apply this product in barns or stables where animals intended for slaughter or human consumption will be maintained. Do not apply when food, feed and/or water is present. Do not use in an evaporative cooling system. Do not use in misters located within 3 feet of air vents, air conditioner units or windows.</li><li>• For use in outdoor residential misting systems: Do not make applications during rain. Do not use in an evaporative cooling system. Do not set nozzles to direct mist near outside air condition systems or outside air intakes.</li><li>• Remove pets, birds and cover fish aquariums before application.</li></ul>

16. Revise the subsection heading "**GENERAL USE:**" to read "**NOTE:**"
17. Within the "**SPACE SPRAYING:**" subsection, revise the existing 4<sup>th</sup> sentence to read "Keep the treated area closed off for at least ½ hour and thoroughly ventilate before re-entry."
18. Within existing 2<sup>nd</sup> sentence of the "**FOR USE IN CANNERIES:**" subsection, replace the words "for the control of" with the words "to kill."
19. Within existing 1<sup>st</sup> sentence of the "**FOR USE IN FOOD AND NONFOOD AREAS OF FOOD PROCESSING PLANTS ...**" subsection, replace the word "control" with the word "kill."
20. Revise the existing 1<sup>st</sup> and 2<sup>nd</sup> sentences within the "**DRIED FRUIT PRODUCTS:**" subsection to read "To kill listed insects, remove and destroy infested products." and revise the existing 5<sup>th</sup> and 6<sup>th</sup> sentences to read "Keep the treated area closed off for at least 1 hour and thoroughly ventilate before re-entry."
21. Regarding the "**TREATMENT OF STORED FOOD AREAS:**" subsection, make the following changes:
- Within the existing 1<sup>st</sup> sentence, replace the words "as, but not limited to, listed areas for the control of" with the words "to kill."
  - Within the existing 5<sup>th</sup> sentence, replace the word "control" with the word "kill."
  - Revise the existing 6<sup>th</sup> sentence to read "Keep the treated area closed off for at least 1 hour and thoroughly ventilate before re-entry."
22. Within existing 1<sup>st</sup> sentence of the "**ON PEANUTS, NUTS, BEANS, SEEDS IN BULK, BAGS OR OTHER PACKAGING:**" subsection, replace the words "For the control of" with the words "To kill."
23. Revise the subsection heading "**FOR USE IN FEDERALLY INSPECTED MEAT AND POULTRY PLANTS:**" to read "**FOR USE IN MEAT AND POULTRY PROCESSING PLANTS:**"
24. Revise the subsection heading "**FOR IN TRANSIT PROTECTION:**" to read "**FOR USE IN TRANSIT PROTECTION:**" and within existing 1<sup>st</sup> sentence, replace the word "control" with the word "kill."
25. Revise the subsection heading "**FOR USE IN LISTED PET AREAS:**" to read "**FOR USE IN LISTED PET (DOMESTIC ANIMAL) AREAS:**" and revise the existing 6<sup>th</sup> sentence to read "Keep the treated area closed off for at least 1 hour and thoroughly ventilate before allowing pets (domestic animals) to re-enter."

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Directions for Use section comment(s), continued:

26. Within existing 1<sup>st</sup> sentence of the “**FOR KENNELS AND OTHER OUTDOOR ANIMAL AREAS:**” subsection, replace the word “control” with the word “kill” and revise the existing 3<sup>rd</sup> sentence to read “Keep the treated area closed off for at least 1 hour and thoroughly ventilate before allowing pets (domestic animals) to re-enter.”
27. Regarding the “**FOR USE ON LIVESTOCK:**” subsection, make the following changes:
  - Revise the subsection heading to read “**FOR USE ON LIVESTOCK (NON-DOMESTIC) ANIMALS:**”
  - Revise the statement “For effective control of Biting and Sucking Lice ...” to read “To kill Biting and Sucking Lice ...”
  - Revise the statement “To control Poultry Lice ...” to read “To kill Poultry Lice ...”
  - Revise the statement “For control of Bed Bugs ...” to read “To kill Bed Bugs ...”
  - Revise the statement “To control Sheep “Tick” or Ked, ...” to read “To kill Sheep “Tick” or Ked, ...”
28. Within the “**FOR USE IN ANIMAL QUARTERS, ...**” subsection, replace the words “For rapid control (kill) of” with the words “To kill” and revise the existing 5<sup>th</sup> sentence to read “Keep the treated area closed off for at least 15 minutes and thoroughly ventilate before re-entering.”
29. Within the existing 1<sup>st</sup> sentence of the “**FOR USE WITH HANDHELD FOGGERS**” subsection, replace the word “control” with the word “kill” and revise the existing 4<sup>th</sup> sentence to read “Keep the treated area closed off for at least 15 minutes and thoroughly ventilate before re-entering.”
30. To facilitate inclusion of revised language from the REDs for pyrethrins and piperonyl butoxide, replace the “**DIRECTIONS FOR USE IN AUTOMATIC ULV SPRAYING SYSTEMS, ...**” subsection with:

**“DIRECTIONS FOR USE IN INDOOR COMMERCIAL ANIMAL PREMISE AUTOMATIC MISTING SYSTEMS:**

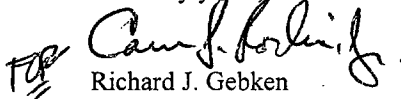
When using this product, installers and service technicians must comply with the license, certification or registration requirements of the state(s), tribe(s) or local authority(ies) where they are installed. When applying via remote activation device, do not apply when people and pets are present. If possible, when applying via automatic timer, set the timing for application when people and pets are unlikely to be present. Direct nozzles to spray towards the target area and away from areas where people are typically present. Do not use in an evaporative cooling system. Do not use in misters located within 3 feet of air vents, air conditioner units or windows. If used in a system with a reservoir tank for the end-use dilution, the system reservoir tank must be locked. Securely attach the end-use pesticide label and a dilution statement to the system reservoir tank in a weather protected area or plastic sleeve. The dilution statement must be phrased as follows: This container holds \_\_\_ parts **CONCENTRATE 1** to \_\_\_ parts water. If used in a direct injection system, the pesticide container must be locked. Securely attach the end-use pesticide label of the pesticide container in a weather protected area or plastic sleeve. This product must only be used in systems that have been calibrated to apply no more than the maximum application rate of \_\_\_ pounds or gallons of end-use product formulation.”

Storage and Disposal section comment(s):

31. Revise the existing “**PESTICIDE STORAGE:**” subsection to read “Keep this product in its tightly closed original container, when not in use. Store in a cool, dry (preferably locked) area that is inaccessible to children and animals.”
3. You must submit two (2) copies of the revised final printed labeling, incorporating the above changes, before releasing the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with section 6(e) of FIFRA. Your release for shipment of the product bearing amended labeling constitutes accepting of these conditions.

Copies of your label stamped “Accepted with Comments” and the product chemistry review completed for your product are enclosed for your records. If you have any questions, please contact Mr. Carmen J. Rodia, Jr. at (703) 306-0327 or via e-mail at [Rodia.Carmen@epa.gov](mailto:Rodia.Carmen@epa.gov).

Sincerely yours,



Richard J. Gebken  
Product Manager (10)  
Insecticide Branch  
Registration Division (7504P)

Enclosures: Copy of label stamped “Accepted with Comments”  
Copy of product chemistry review, dated April 20, 2010

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ACCEPTED  
With COMMENTS  
In EPA Letter Dated:  
*June 22, 2010*  
Under the Federal Insecticide, Fungicide  
and Rodenticide Act, As amended, for the  
pesticide Registered under EPA Reg. No:  
*48665-6*

# Concentrate 1

## Misting Concentrate

- A micro-emulsion, water-base spray
- Kills Mosquitoes, including the *Culex* species that may carry and transmit the West Nile Virus.
- Kills ~~and repels~~ Stable Flies, Horse Flies, Face Flies, Deer Flies, House Flies, Mosquitoes, and Gnats.
- Controls Deer Ticks and other Ixodid species that may carry and transmit Lyme Disease.
- CONCENTRATE 1 Misting Concentrate provides rapid kill of insects without objectionable residues.

ACTIVE INGREDIENTS:

Pyrethrins .....	3.00%
*Piperonyl butoxide, Technical .....	30.00%
OTHER INGREDIENTS .....	67.00%
	<u>100.00%</u>

\*Equivalent to min. 24% (butylcarbityl) (6-propylpiperonyl) ether and 6.0% related compounds

### KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
IF SWALLOWED:	<ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give any liquid to the person.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
IF ON SKIN OR CLOTHING:	<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 a poison control center or doctor, or going for treatment. For information regarding medical emergencies or pesticide incidents, call 1-888-740-8712.	

### NET CONTENTS 1 GALLON

Manufactured by: SHOO-FLY  
10337 North U.S. Highway 27 • Ocala, Florida 34482  
(352) 351-5858 • 1-800-248-5858

EPA Reg. No. 48665-\_\_\_\_  
EPA Est. No. 1021-MN-2



# PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS **CAUTION**

Harmful if swallowed or absorbed through the skin. Avoid contact with eyes, skin or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

## ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters or rinsate.

## PHYSICAL OR CHEMICAL HAZARDS

Do not use this product in or on electrical equipment because of shock hazard.

### FOR THE CONTROL OF INSECTS including but not limited to:

- |                        |                     |   |   |
|------------------------|---------------------|---|---|
| Almond Moths           | Crickets            | Indian Meal Moths   | Saw-toothed Grain Beetles                         |
| Angoumois Grain Moths  | Dark Mealworms      | Khapra Beetles  | Sheep Ticks                                       |
| Ants                   | Darkling Beetles    | Lesser Grain Borers   | Silverfish  |
| Bed Bugs               | Deer Flies          | Lesser House Flies  | Skipper Flies                                     |
| Black Carpenter Ants   | Deer Ticks          | Lice  | Small Flying Moths                                |
| Black Flies            | Dermestid Beetles   | Med. Flour Moths  | Sowbugs   |
| Black Widow Spiders    | Dog Fleas           | Merchant Grain Beetles  | Spider Beetles                                    |
| Blood Sucking Lice     | Dried Fruit Beetles | Midges  | Stable Flies                                      |
| Boxelder Bugs          | Drugstore Beetles   | Miller Moths  | Ticks—that may carry and<br>transmit Lyme disease |
| Brown Dog Ticks        | Earwigs             | Millipedes  | Tobacco Moths                                     |
| Cadelles               | Face Flies          | Mosquitoes—including the<br>Culex species that may<br>carry and transmit the<br>West Nile Virus | Trogoderma Beetles                                |
| Carpet Beetles         | Fannia Flies        | Palmetto Bugs   | Warehouse Beetles                                 |
| Cat Fleas              | Firebrats           | Pillbugs  | Wasps   |
| Cellar Spiders         | Flat Grain Beetles  | Poultry Lice  | Waterbugs   |
| Cereal Beetles         | Fruit Flies         | Red Flour Beetles   | Yellow Mealworms                                  |
| Cheese Mites           | Gnats               | Rice Flour Beetles  | Yellow Jackets                                    |
| Cheese Skippers        | Grain Mites         | Rice Weevils  |   |
| Chocolate Moths        | Granary Weevils     | Rusty Grain Beetles   |   |
| Cigarette Beetles      | Hornets             |   |   |
| Cockroaches            | Horn Flies          |   |   |
| Confused Flour Beetles | Horse Flies         |   |   |

**INDOOR AREAS for use in but not limited to:**

- |                           |                            |                          |                          |                         |
|---------------------------|----------------------------|--------------------------|--------------------------|-------------------------|
| Animal Areas              | Credenzas                  | Hog Barns                | Museums                  | Stored Products         |
| Animal Control Centers    | Crematoriums               | Homes                    | Nursing Homes            | Stores                  |
| Animal Quarters           | Dairies                    | Horse Stables and Barns  | Office Buildings         | Sun Porches             |
| Animal Shelters           | Dairy and Livestock Barns  | Horse Trailers           | Other Public Buildings   | Sun Rooms               |
| Apartments                | Day Care Centers           | Hospices                 | Outdoor Eating Buildings | Swine Houses            |
| Atriums                   | Decks                      | Hospitals                | Pantries                 | Taverns                 |
| Attics                    | Delicatessens              | Hotels                   | Parking Garages          | Tents                   |
| Auditoriums               | Dens                       | Household Contents       | Patios                   | Textile Mills           |
| Automobiles               | Department Stores          | Houses                   | Pet Bedding              | Theaters                |
| Bakeries                  | Diners                     | Indoor Eating Buildings  | Pet Carriers             | Tobacco Factories       |
| Bars                      | Dog Houses                 | Industrial Installations | Pet Grooming Parlors     | Tobacco Warehouses      |
| Basements                 | Dog Sleeping Quarters      | Industrial Plants        | Pet Sleeping Areas       | Tool Sheds              |
| Bathrooms                 | Dormitories                | Institution Dining Areas | Pet Stores               | Trailers                |
| Bedding                   | Draperies                  | Institutions             | Planes                   | Trains                  |
| Bedrooms                  | Dressers                   | Jails                    | Play Houses              | Transportation Vehicles |
| Beef Barns                | Dried Fruits in Storage    | Kennels                  | Play Rooms               | Tree Houses             |
| Beverage Plants           | Drive-Ins                  | Kitchens                 | Pool Halls               | Tree Nuts Storage Area  |
| Boats                     | Drugstores                 | Laboratories             | Porches                  | Truck Trailers          |
| Bookcases                 | Dumpsters                  | Lanais                   | Poultry Houses           | Trucks                  |
| Bottling Plants           | Dwellings                  | Laundromats              | Poultry Plants           | Tunnels                 |
| Breweries                 | Egg Processing Plants      | Lavatories               | Pounds                   | Utilities               |
| Brewery Warehouses        | Fabric Storage Areas       | Libraries                | Prisons                  | Utility Rooms           |
| Buildings Housing Animals | Factories                  | Liquor Stores            | Public Storage           | Vending Machines        |
| Buildings Housing Poultry | Farm Structures            | Livestock Barns          | Quonset Huts             | Verandas                |
| Buses                     | False Ceilings             | Livestock Hauling        | Rabbit Processing Plants | Veterinary Clinics      |
| Cabinets                  | Floors                     | Equipment                | Railroad Cars            | Voids in Attics         |
| Cabins                    | Food Processing Plants     | Livestock Holding Areas  | Recreational Vehicles    | Warehouses              |
| Cafeterias                | Food Storage Areas         | Living Rooms             | Research Animal          | Washrooms               |
| Calving Barns             | Freight Containers         | Loafing Sheds            | Quarters                 | Wheat Mills             |
| Camp Sites                | Fruit Packing Sheds        | Locker Rooms             | Restaurants              | Wholesale Stores        |
| Campers                   | Funeral Parlors            | Marinas                  | Retail Stores            | Wine Cellars            |
| Canneries                 | Furniture                  | Mattresses               | Rice Mills               | Wineries                |
| Carpets                   | Garages                    | Mausoleums               | Rooms                    | Zoos                    |
| Cat Sleeping Quarters     | Garbage Bins               | Meat Packing Plants      | Rugs                     |                         |
| Cattle Barns              | Garbage Cans               | Mess Halls               | Schools                  |                         |
| Chests                    | Garbage Compactors         | Milk Houses              | Seed Storage             |                         |
| Churches                  | Gas Stations               | Milk Rooms               | Sheep Holding Areas      |                         |
| Circus Tents              | Gazebos                    | Milk Sheds               | Ships                    |                         |
| City Missions             | Goat Holding Areas         | Milking Rooms            | Ship Holds               |                         |
| Closed Porches            | Grain Elevators            | Mini-Storage             | Smoke Shops              |                         |
| Closets                   | Grain Handling Equipment   | Mobile Canteens          | Solariums                |                         |
| Clothes Storage           | Grain Harvesting Equipment | Mobile Homes             | Sport Stadiums           |                         |
| Club Houses               | Grain Mills                | Morgues                  | Stable Bins              |                         |
| Commercial Buildings      | Grain Storage              | Mortuaries               | Stables                  |                         |
| Condominiums              | Granaries                  | Motels                   | Storage Areas            |                         |
| Crawl Spaces              | Grocery Stores             | Movie Theaters           | Stored Food (bags)       |                         |

**OUTDOOR AREAS for uses in and around, but not limited to:**

Alleys	Circuses	Game Fields	Parking Lots	Side Yards
Amphitheatres	Construction Sites	Garbage Dumps	Parks	Stadiums
Amusement Parks	Corrals	Gazebos	Patios	Tennis Courts
Ant Hills	Courtyards	Grandstands	Playgrounds	Truck Stops
Back Yards	Curbs	Junk Yards	Ranges	Underpasses
Balconies	Drive-In Restaurants	Kennels	Recreational Areas	Utility Room Outdoor
Baseball Fields	Drive-In Theaters	Levees	Rest Areas	Weigh Stations
Beaches	Dumpsters	Manholes	Roadsides	Wild Animal Parks
Bridges	Fair Grounds	Manure Piles	Rooftops	Wood Piles
Campgrounds	Feedlots	Marinas	Sanitary Sewers	Zoos
Carwashes	Front Yards	Outdoor Eating Establishments	Sidewalks	

**FOR USE ON but not limited to:**

Beefalo	Chickens	Geese	Oxen	Roosters
Birds	Donkeys	Horses	Pheasants	Sheep
Buffalo	Ducks	Lambs	Pigs	Swine
Calves	Exotics such as	Llamas	Pullets	Turkeys
Cattle - Beef	European Red Deer	Mules	Quail	
Cattle - Dairy	Emus	Ostrich	Ratites	

**DIRECTIONS FOR USE**

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

Read all directions completely before use. For best results, follow directions for specific use areas.

**GENERAL:**

This concentrated product must be diluted in water. When filling tank, partially fill tank with water and add concentrate. Then fill the rest of the tank with water, agitate well and apply as directed.

- 0.05% Pyrethrins – add 1 part concentrate to 59 parts water or 2 fluid ounces concentrate/gallon water
- 0.10% Pyrethrins – add 1 part concentrate to 29 parts water or 4.3 fluid ounces concentrate/gallon water
- 0.30% Pyrethrins – add 1 part concentrate to 9 parts water or 13 fluid ounces concentrate/gallon water
- 0.50% Pyrethrins – add 1 part concentrate to 5 parts water or 22 fluid ounces concentrate/gallon water

~~Confine use of this product in food processing establishments to time periods when the plant is not in operation. Remove or cover food during treatment. Cover all food processing surfaces during treatment or thoroughly clean before use following treatment.~~

For maximum effectiveness, following the dilution chart and using a combination of spot, surface treatment and fogging are recommended.

**SPACE SPRAYING:** Use with conventional mechanical or compressed air equipment to kill exposed accessible stages of, ~~but not limited to:~~ Flies (including Fruit Flies), Mosquitoes, including the Culex species that may carry and transmit the West Nile Virus, Small Flying Moths, Fleas, Gnats, Wasps, Hornets, Clover Mites, Cheese Mites, Cheese Skippers, Boxelder Bugs, Earwigs, Ants, and the following common Stored Product Pests: Granary Weevils, Rice Weevils, Confused Flour Beetles, Saw-toothed Grain Beetles, Spider Beetles, Cigarette Beetles, Drugstore Beetles, Angoumois Grain Moths, Mediterranean Flour Moths, Indian Meal Moths, Tobacco Moths, Yellow Mealworms, Dark Mealworms, Grain Mites, Cadelles, Red Flour Beetles, ~~and other listed insects.~~ Close Room and shut off air conditioning or ventilating equipment. Apply at the rate of one to ten (1-10) fluid ounces per 1,000 cubic feet of space and direct spray toward upper corners of room and ceiling, filling the room with mist. Leave room closed for 1/2 hour and ventilate thoroughly before re-entry.

**SURFACE SPRAYING:** To kill Cockroaches, Black Carpenter Ants, Silverfish, Spiders, Crickets, Clover Mites, Cheese Mites, Granary Weevils, Rice Weevils, Saw-toothed Grain Beetles, Spider Beetles, Cigarette Beetles ~~and other listed insects,~~ use a sprayer adjusted to a coarse wet spray. Mix well and apply as a coarse wet spray using approximately 1 gallon of spray mixture per 750 square feet of surface. To provide maximum penetration and impingement on the insects, direct the spray first into all cracks and crevices, behind all equipment, cupboards, obstructions or dark harborage areas, on walls and floors, underneath sinks, behind pipes, beneath stoves and refrigerators, around garbage cans, cabinets, along baseboards, door sills, window sills, door



and window frames and floors, around and on drains, pipes, and plumbing, behind bookcases, storage and other utility installation areas and in all places that harbor insects. Contact as many insects as possible. ~~Do not allow spray to contact stored food.~~ If surface application only is to be used, spray floor and other surfaces. To kill ants, treat doors and around window frames and other areas of entry. Spray on ants whenever possible.

**CLOTHES MOTHS:** Remove any infested articles from storage, brush thoroughly and air for several hours in sunlight, if possible. Apply liberally to empty chests, closets, bureaus and other storage areas, directing the spray into cracks, joints and crevices.

**CARPET BEETLES:** Directly spray as many insects as possible. ~~Spray all surfaces of upholstered furniture.~~ Where possible, thoroughly spray both top and bottom of rugs and carpets. Also treat shelves, closets, areas under furniture, floors, walls, window sills, baseboards and wherever these insects are seen or suspected.

**BED BUGS:** Spray mattresses lightly, paying special attention to tufts and seams. Take beds apart and spray in all joints. Treat baseboards, moldings, floors, walls, furniture and other infested areas.

**FOR USE IN CANNERIES:** Before bringing in produce, thoroughly clean floors, conveying equipment and walls, paying special attention to cracks and crevices. Follow dilution chart and spray the entire space inside of the cannery including walls, ceiling and floors, paying special attention to forcing the spray into all cracks and crevices for the control of ants, cockroaches, silverfish, crickets, spiders, fruit flies, moths, house flies, cheese mites ~~and other listed insects.~~

**FOR USE IN FOOD AND NONFOOD AREAS OF FOOD PROCESSING PLANTS, Industrial Installations, Bakeries, Rice and Wheat Mills, Restaurants, Tobacco Warehouses, Grain Elevators and Warehouses.** Spray as directed to control listed flying and crawling insects. Confine the use of this product in food processing or food handling establishments to time periods when the plant is not in operation. ~~Cover or remove food during treatment.~~

**DRIED FRUIT PRODUCTS in storage or processing.** For control of listed insects. Remove and destroy infested products. Do not apply directly to fruit. Apply as a fine mist or fog in the air above and around the trays, bins, and shelves at the rate of 1 to 10 fluid ounces per 1,000 cubic feet of space. Repeat application at this dosage as required. Leave the room closed for one hour. Do not remain in treated areas and ventilate the area before re-entry. Sweep up and destroy fallen insects.

**TREATMENT OF STORED FOOD AREAS:** Foods in multi-walled bags, cloth bags or other packaging stored in such areas as, ~~but not limited to, listed areas,~~ for the control of listed pests. Destroy, fumigate, or treat infested stored products using effective methods or an approved product intended for this purpose. As noted above, disperse first by directing spray into cracks and crevices, and around corners, pallets and stacks of packaged goods hitting as many insects as possible. Then apply as a space spray at a dosage of 1 to 10 fluid ounces per 1,000 cubic feet of room space. Repeat application as necessary for insect control. Do not remain in treated area and ventilate before re-entry. Sweep up and destroy fallen insects.

**ON PEANUTS, NUTS, BEANS, SEEDS IN BULK, BAGS OR OTHER PACKAGING:** For the control of listed insects. Apply to the surface of stored or bagged products. Also spray walls, floors and other surfaces of bins, storage and handling areas thoroughly, being especially careful to treat cracks, crevices and similar hiding places. Then apply as a space spray at the rate of 1-10 ounces per 1,000 cubic feet by directing the spray toward the ceiling and upper corners of the area and behind any obstructions.

**FOR USE IN FEDERALLY INSPECTED MEAT AND POULTRY PLANTS:** Apply with a conventional mechanical or compressed air equipment at the rate of 1 to 10 fluid ounces per 1,000 cubic feet of room space. Apply 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. Repeat as necessary. ~~Before use cover or remove exposed food products and packaging materials. After use wash equipment and utensils with an effective cleaning compound and rinse with potable water. Use as a space spray only when plant is not in operation.~~

**FOR IN TRANSIT PROTECTION:** To control accessible stages of listed insects, clean and spray truck beds, boxcars, ships holds and other listed transit equipment before loading. Thoroughly treat walls and floors and lightly spray each layer of carton or containers. Apply at the rate of 1 gallon per 750 square feet.

**FOR USE IN LISTED PET AREAS:** For best results, remove, destroy or wash pet's old bedding. To reduce infestation, thoroughly spray pet bedding, sleeping quarters, kennel, around baseboards, window and door frames, into wall cracks, on local areas of floors, and other resting places until the surface is slightly moist. Treat these areas at the rate of two seconds per linear foot at the distance of 12 to 18 inches. Also spray the entire inside surface of doghouses. Put fresh bedding in pet's quarters after spray has dried. Allow treated areas to dry thoroughly before allowing pets to re-enter.

~~Remove pets and birds and cover fish aquariums before spraying.~~

**FOR KENNELS AND OTHER OUTDOOR ANIMAL AREAS:** Follow dilution chart to control listed insects. Apply liberally to surfaces, with special attention to cracks and crevices and other insect hiding places. Allow treated areas to dry thoroughly before allowing pets (animals) to re-enter.

**FOR USE ON LIVESTOCK:** Dilute as follows: 0.10% Pyrethrins – Add 1 part concentrate to 29 parts water or 0.50% Pyrethrins – Add 1 part Concentrate to 5 parts water and apply as directed:

To protect beef cattle, dairy cattle, horses and other livestock from attacks and to kill ~~and repel~~ Stable Flies, Horse Flies, Deer Flies, House Flies, Horn Flies, Lesser House Flies, Mosquitoes, including the Culex species that may carry and transmit the West Nile Virus, and Gnats, spray about 3 seconds on each side of animal, being careful to spray back, withers and forelegs thoroughly.

To protect from Face Flies, spray the face and hair or spray on a cloth and rub on the face, being certain to avoid contact with the eyes. Repeat treatment as necessary when flies are troublesome.

For effective control of Biting and Sucking Lice on cattle, horses, sheep, goats and hogs, spray to thoroughly wet the hair of the animal, including the head and brush of the tail. Repeat treatment in 10 days to kill newly hatched lice.

To control Poultry Lice and exposed stages of Darkling Beetles, thoroughly spray roosts, walls, nests and cages. Follow by spraying over the birds with a fine mist.

For control of Bed Bugs and Mites on poultry and in poultry houses, spray crevices of roost poles and cracks in walls and cracks in nests where the Bed Bugs and Mites hide. Follow by spraying over the birds with a fine mist.

To control Sheep "Tick" or Ked, thoroughly wet all portions of the body by spraying directly into the wool. Treat at a rate to sufficiently wet the animal.

To kill Fleas and Ticks on livestock and to obtain protection against reinfestation, spray to wet animal.

**FOR USE IN ANIMAL QUARTERS, Barns, Dairies, Milking Parlors, Milking Rooms, Poultry Houses and other listed animal areas:** For rapid control (kill) of Flies, Mosquitoes, including the Culex species that may carry and transmit the West Nile Virus, Gnats and other listed flying insects: dilute with water to give a 0.10% or 0.50% concentration and apply as a fine mist or spray. Direct the spray toward the ceiling and upper corners until the area is filled with mist, using about two (2) ounces per 1,000 cubic feet of space. Do not direct spray towards animals or birds. For best results, close doors and windows before spraying and keep them closed for 10 to 15 minutes following application. Applicator should vacate the treated area and ventilate it before reoccupying. ~~Do not use in milk rooms where raw milk may be exposed.~~

**FOR USE WITH HANDHELD MECHANICAL FOGGERS** to control Houseflies, Horn Flies, Stable Flies, Horse Flies, Mosquitoes, including the Culex species that may carry and transmit the West Nile Virus, Gnats and other listed insects. Dilute concentrate and apply as a fine mist or fog. Direct spray toward the ceiling and upper corners of the room until the area is filled with mist, using about 2 fluid ounces per 1,000 cubic feet of space. For best results, close doors and windows before spraying, and keep them closed for 10 to 15 minutes after spraying. Applicator should vacate the treated area and ventilate it before reoccupying.

**DIRECTIONS FOR USE IN AUTOMATIC ULV SPRAYING SYSTEMS, IN AREAS SUCH AS ANIMAL QUARTERS, DAIRY AND BEEF BARN, POULTRY HOUSES, SWINE HOUSING, WAREHOUSES, ZOOS AND OTHER LISTED LIVESTOCK OR ANIMAL HOUSING AREAS.**

Automatic spraying systems must not be programmed to release pesticides where food or feed is directly exposed.

To Kill Flies, Houseflies, Horn Flies, Stable Flies, Horse Flies, Mosquitoes, including the Culex species that may carry and transmit the West Nile Virus, Gnats and other listed insects: When filling tank, partially fill tank with water and add concentrate. Then fill the rest of the tank with water and agitate well. Dispense diluted concentrate through automatic spraying system. Set nozzles to deliver 1 fluid ounce per minute. Position nozzles to cover a maximum of 2,000 cubic feet of space per nozzle. Set timer to operate in accordance with equipment directions.

~~**DIRECTIONS FOR USE IN OUTDOOR RESIDENTIAL MISTING SYSTEMS.**~~

~~**NOTE: NOT REGISTERED for use in Automatic ULV Spraying Systems in the State of New York.**~~

~~Use to control or temporarily reduce annoyance from accessible stages of Mosquitoes including the Culex species that may carry and transmit the West Nile Virus, Flies, Gnats, Face Flies, Fannia Flies, Deer Flies, Horse Flies, Stable Flies, Horn Flies, Hornets, Wasps, Yellow Jackets, Fire Brats, Small~~

Flying Moths, Earwigs, Fleas, Ticks, Clover Mites, Brown Dog Ticks, Crickets, Cockroaches, Silverfish, Spiders, Darkling Beetles, and other nuisance insects.

Do not apply this pesticide when people, pets and food are present.

Do not use in an evaporative cooling system.

Direct nozzles to spray towards the target area and away from swimming pools, water bodies, or eating and cooking areas.

If used in a system with a reservoir tank for the end use dilution, the system reservoir tank must be locked. Securely attach the end use pesticide CONCENTRATE 1 label and a dilution statement to the system reservoir tank in a weather protected area or plastic sleeve. The dilution statement must be phrased as follows: "This container holds \_\_\_ parts CONCENTRATE 1 to \_\_\_ parts water.

If used in a direct injection system, the pesticide container must be locked. Securely attach the end use pesticide CONCENTRATE 1 label to the pesticide container in a weather protected area or plastic sleeve.

**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 that tank size to be mixed with water to achieve 0.057% pyrethrin solution
1	2.33	2.33
5	2.33	11.65
10	2.33	23.3
30	2.33	70
55	2.33	128

For high populations of insects or when treating species that are difficult to control, mix at rates giving higher concentrations (percentage) of pyrethrins up to 0.10% using a conversion factor of 4.08 in table above.

When filling tank, partially fill the system reservoir tank with water and add concentrate. Then fill the rest of the tank with water and agitate well.

This product must only be used in systems that have been calibrated to apply no more than the maximum application rate of 0.00011 lbs. a.i. Pyrethrins per 1,000 cubic feet per day, or 1/18th fluid ounce of CONCENTRATE 1 concentrate or 3 fluid ounces of 0.057% solution per 1,000 cubic feet per day.

For best performance, the spray solution should be in the pH range of 5.5 to 7.0.

This product will control 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. Control practices including 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 control of target insects.

**OUTDOOR USE DILUTION TABLE:** Follow dilution chart and apply as directed.

Solution percentage	Ratio of concentrate to water	Fluid ounces of concentrate per gallon of water
0.05% Pyrethrins	1 part concentrate to 59 parts water	2 fluid ounces concentrate/gallon water
0.10% Pyrethrins	1 part concentrate to 29 parts water	4.3 fluid ounces concentrate/gallon water
0.30% Pyrethrins	1 part concentrate to 9 parts water	13 fluid ounces concentrate/gallon water
0.50% Pyrethrins	1 part concentrate to 5 parts water	22 fluid ounces concentrate/gallon water

~~Take care to avoid spraying when wind conditions might create a mist that can blow back to applicator. Do not apply this product in or around bodies of water. Do not spray directly on plants. Spray surfaces and contact as many insects as possible.~~

**SMALL FLYING INSECTS AND OTHER FLYING INSECTS including FLIES, GNATS, MOSQUITOES, SMALL FLYING MOTHS, and MIDGES:** Hold sprayer nozzle 18-24 inches from shrubs, bushes, grassy areas, and other areas infested with these pests. Do not apply directly to plants. Spray with a slow sweeping motion while moving away from the treated area. To reduce annoyance from these pests, treat open porches, patios and under decks in a similar manner. Kills and repels Flies, Mosquitoes including the Culex species that may carry and transmit the West Nile Virus, Midges, and Gnats when used intermittently during outdoor activities and will keep surrounding areas free from these pests. Allow spray to dissipate before occupying the treated area.

**ANTS:** Spray ant trails, hills, and other areas of entry and infestation. Directly spray ants where possible.

**SPIDERS:** Directly spray spiders and webs.

**SOWBUGS, MILLIPEDES, BEETLES, EARWIGS, Pillbugs, Centipedes, Scorpions, Cockroaches, Crickets, Waterbugs, and Palmetto Bugs:** Thoroughly spray surfaces and into hiding places such as cracks and crevices, moist areas, openings around pipes and spigots, in storage areas and sheds, and other areas where these pests tend to congregate.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in a cool, dry place. Keep container closed.

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

**CONTAINER HANDLING:** Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) 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 ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank for 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, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.