

# SECTOR<sup>®</sup>

Misting Concentrate

Specimen Label

- For use in automatic spraying systems, in animal quarters, cattle barns, dairies, dairy and beef barns, milking parlors, poultry houses, swine housing, warehouses and residential back yards
- Polymeric Surfactant System—a formulation that allows convenient and stable dilution with water
- Will not harm most common ornamental plants
- Kills mosquitoes, which may transmit West Nile virus
- Kills mosquitoes, including the Aedes mosquito that may carry and transmit the Zika virus
- Kills deer ticks that may transmit Lyme disease

#### ACTIVE INGREDIENTS:

* Permethrin [* (3-Phenoxyphenyl) methyl (+ or -) cis-trans-3-(2,2-dichloroethyl) 2,2-dimethylcyclopropanecarboxylate].....	10.00%
** Piperonyl butoxide.....	10.00%
OTHER INGREDIENTS .....	80.00%
	100.00%

\* Cis-trans isomers ratio: Min. 35% (+ or -) cis and Max. 65% (+ or -) trans  
 \*\* (butylcarbityl) (6-propylpiperonyl) ether and 2.00% related compounds  
**Contains 0.856 lbs. of Permethrin per gallon**



KEEP OUT OF REACH OF CHILDREN  
**CAUTION**

See inside for first aid and precautionary statements.

#### DIRECTIONS FOR USE

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

#### READ ENTIRE LABEL BEFORE EACH USE

##### USE RESTRICTIONS:

- Not for Forestry Use or Commercial Nursery Use.
- Not for use on plants being grown for sale or other commercial use, or for commercial seed production or for research purposes.
- As a direct spray: except when applying to dogs or livestock, do not enter or allow others to enter treated area until sprays have dried.
- As a space spray or fog: Do not enter or allow others to enter until vapors, mists, and aerosols have dispersed, and the treated area has been thoroughly ventilated.
- Except when applying to dogs or livestock, do not apply this product in a way that will contact workers or other persons, either directly or through drift.
- Do not apply when food is present.
- Do not use in food areas of food handling establishments, or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared foods are served, such as dining rooms, but excluding areas where foods may be prepared or held. In the home, all food processing surfaces and utensils must be covered during treatment or thoroughly washed before use. Cover or remove exposed food.
- Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.
- Do not apply directly to sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur, except as directed by this label.
- Do not make applications during rain.
- Not for use in metered release systems.
- Do not wet plants to point of runoff or drip.
- Do not wet treated articles to the point of runoff or drip. Do not use treated article until spray has dried.
- For crack and crevice, surface or space spray, fogging applications indoors: 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.
- For applications to non-residential indoor sites: Do not use in aircraft cabins except in compliance with PR Notice 96-3.
- When used in dairy barns or facilities: Close milk bulk 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.
- For use as directed surface sprays for use on residential indoor surfaces: Do not apply as a broadcast or spot treatment to indoor surfaces at residential sites, including nurseries, day care centers, schools, hospitals, and nursing homes.
- Remove pets and birds and cover fish aquariums before spraying.

Keep container sealed when not in use. Protect from freezing. To prepare dilutions, add the required amount of concentrate to water and blend thoroughly.

**Dilution rates on this label will yield the following ready-to-use product:**

Rate	Fluid ounces of concentrate per gallon	% Permethrin
1:19	6.4	0.50%
1:39	3.2	0.25%
1:100	1.28	0.10%
1:200	0.64	0.05%
1:400	0.32	0.025%

The number following the dilution directions on this label refers to the ready-to-use Permethrin level.

For maximum effectiveness, a combination of localized application and space treatment is recommended.

**FOR PET USE – USE ONLY ON DOGS**

**Application method: Surface spray**

Pests controlled	Use directions	Dilution rate
Cockroaches, Waterbugs, Palmetto Bugs, Ants, Silverfish, Firebrats, Spiders, Crickets, Millipedes, Centipedes, Sowbugs, Pillbugs, Clover Mites, Cheese Mites, Granary Weevils, Rice Weevils, Confused Flour Beetles, Rust Red Flour Beetles, Sawtoothed Grain Beetles, Spider Beetles, Cigarette Beetles, Drugstore Beetles, Darkling Beetles, Mealworms, Grain Mites, Cadelles, and Lesser House Flies and other manure breeding flies	Use a sprayer adjusted to deliver a coarse wet spray. Direct the spray into hiding places, cracks and crevices, under pallets, around containers of stored foods, around the base of machinery and behind shelves and drawers. Spray bookcases for Silverfish. Spray ant trails, nests and points of entry. If surface application only is to be used, apply as spot treatment. Make spot treatments to floors, walls and other surfaces applying at a rate of 1 gallon to 750 square feet of surface.	For initial cleanup of severe insect infestation, dilute at a rate of 1 part concentrate in 19 parts water (6.4 fluid ounces per gallon) (0.5%). For normal infestations, dilute 1 part concentrate in 39 parts water (3.2 fluid ounces per gallon) (0.25%).
Centipedes, Ground Beetles, Pillbugs, Sowbugs, Scorpions and Ticks	Apply around doors and windows and other places where these pests may enter premises. Treat baseboards, storage areas and other locations where these pests are found.	For maintenance use, dilute 1 part concentrate in 100 parts water (1.28 fluid ounces per gallon) (8 teaspoonfuls per gallon) (0.1%).
Carpet Beetles	Spray edges of carpeting and under carpeting and rugs. Make localized application to floor and baseboards. Spray directly into cracks, closets and infested areas of shelving.	
Flying Insect Resting Places (aids in the control of Mosquitoes, Gnats, Skippers, Boxelder Bugs, Multi-colored Asian Lady Beetles)	Treat walls, ceilings, moldings, screens, door frames, window frames, beams, light cords, and similar resting places.	Dilute at a rate of 1 part concentrate in 19 parts water (6.4 fluid ounces per gallon) (0.5%).
Clothes Moths	Remove infested articles from storage, brush thoroughly and air for several hours in sunlight, if possible. Apply spray liberally to empty chests, closets, bureaus and other storages directing the spray into cracks, joints, and crevices. After airing, infested articles may be treated lightly, keeping nozzle at least three feet from fabric to avoid staining.	For initial cleanup of severe insect infestation, dilute at a rate of 1 part concentrate in 19 parts water (6.4 fluid ounces per gallon) (0.5%).
Bed Bugs	Spray mattresses lightly, particularly around tufts and seams. Take beds apart and spray in all joints. Treat baseboards, moldings, and floors. Allow all treated articles to thoroughly dry before use.	For normal infestations, dilute 1 part concentrate in 39 parts water (3.2 fluid ounces per gallon) (0.25%).
Lice and Louse Eggs	Spray in an inconspicuous area prior to use to test for possible staining or discoloration. Inspect again after drying. Spray from a distance of 8 to 10 inches. Treat only those garments and parts of bedding, including mattresses and furniture that cannot be either laundered or dry-cleaned. Allow all treated articles to dry thoroughly before use.	For maintenance use, dilute 1 part concentrate in 100 parts water (1.28 fluid ounces per gallon) (8 teaspoonfuls per gallon) (0.1%).
Fleas, Flies, Ticks, Lice and Mange Mites (adults and larvae) in kennels, doghouses, runs and yards	Test delicate fabrics in an inconspicuous area prior to use. Thoroughly spray infested areas, pet beds, resting quarters, nearby cracks and crevices, along and behind baseboards, moldings, window and door frames, and localized areas of floor and floor coverings (rugs and carpets). Fresh bedding should be placed in animal quarters once spray has dried. Adult fleas and larvae contacted by spray will be killed.	

**Application method: Space spray**

Pests controlled	Use directions	Dilution rate
House Flies, Fruit Flies, Gnats, Mosquitoes, Skipper Flies, Wasps, Hornets, Bees, Black Flies, Multi-colored Asian Lady Beetles, Boxelder Bugs, Angoumois Grain Moths, and Tobacco Moths	Apply with mechanical or compressed air equipment (non-thermal) adjusted to deliver a fine mist. Close doors and windows and shut off ventilating systems. Direct spray at an upward angle distributing it uniformly through the entire area at a rate of 1 fl. oz. per 1,000 cubic feet of space. Keep area closed for at least 10 minutes. Vacate areas after treatment and ventilate and sweep up dead insects before occupying.  For rapid kill of exposed or accessible stages of other insects named on this label: Apply using conventional mechanical or compressed air equipment (non-thermal), following directions for space spraying. Apply dilutions at a rate of 1 fluid ounce per 1,000 cubic feet of space.	For initial cleanup of severe insect infestation, dilute at a rate of 1 part concentrate in 19 parts water (6.4 fluid ounces per gallon) (0.5%). For normal infestations, dilute 1 part concentrate in 39 parts water (3.2 fluid ounces per gallon) (0.25%). For maintenance use, dilute 1 part concentrate in 100 parts water (1.28 fluid ounces per gallon) (8 teaspoonfuls per gallon) (0.1%).

**INDOOR USE AREAS**

Do not use in food areas of food handling establishments and restaurants or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed or facility is in operation. Serving areas are areas where prepared foods are served such as dining rooms, but excluding areas where foods may be prepared or held. In the home, remove all exposed food and cooking utensils. Cover all food processing surfaces or wash thoroughly after treatment and before use. Cover or remove exposed food.

NON-FOOD/FEED AREAS include (but are not limited to) garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling):

Bakeries	Hospitals	Railroad cars
Beverage plants	Hotels	Restaurants
Canneries	Industrial installations	Schools
Flour mills	Kennels	Ships' holds
Food processing plants	Meat packing plants	Supermarkets
Grain elevators	Motels	Truck trailers
Granaries	Office buildings	Warehouses
Homes		

**OUTDOOR USE AREAS** including Corrals, Drive-In Theaters, Drive-In Restaurants, Feed Lots, Gardens, Homes, Parks, Playgrounds, Recreational Areas, Swine Lots, Urban Areas, Zoos:

**GENERAL APPLICATION RESTRICTIONS**

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;
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. Application to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;

5. Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width;
6. Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in runoff into storm drains, drainage ditches, gutters, or surface waters in order to control occasional invaders or aggregating pests as listed on this label.

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

**Application method: Premise spray**

Pests controlled	Use directions	Dilution rate
Mosquitoes, Wasps, Gnats, Annoyance Flies and Skippers	Treat walls, ceilings, moldings, screens, door frames, window frames, beams, light cords, and similar resting places. Make applications prior to occupancy. Cover any exposed water, drinking fountains and animal feed before application. In zoos, prevent exposure of reptiles to the product.	Dilute 1 part concentrate in 40 parts water (3.2 fluid ounces per gallon of water) (0.25%).
Gypsy Moth Caterpillars and Adults, Adult Japanese Beetles, Eastern and Forest Tent Caterpillars, Mole Crickets and Grasshoppers	Apply to ensure thorough coverage of upper and lower surfaces. Thoroughly wet down grass a few hours before applying. Home lawns should be not taller than 3 inches at time of application. Irrigate with 1/4 inch of water immediately after application. For heavy infestations, repeat application after 2 weeks.  Treat trees and shrubs as soon as insects emerge (usually late spring). Treat leaves, branches, and tree trunks evenly, making sure to penetrate dense foliage. Repeat application every 7 days as necessary for control.  ON ROSES AND IN FLOWER GARDENS: Treat plants and flowers as soon as insects appear. Spray plants and flowers making sure to penetrate dense foliage. Repeat application every 7 days or as necessary for control.	Dilute 1 part concentrate in 40 parts water (3.2 fluid ounces per gallon of water) (0.25%).  Mix 1.28 fluid ounces per gallon of water and treat 1,000 sq. ft. Slightly more water may be used as long as the amount of product per area is the same.
Fire Ants	Apply at the rate of one gallon per mound as a gentle rain from a typical garden sprinkling can. Thoroughly wet the mound and surrounding area to a diameter of 4 feet. For best results, apply in cool weather, 65° to 80°F, or in early morning or late evening hours. Treat new mounds as they appear. Do not disturb the mound prior to treatment. Treat all mounds in the vicinity and treat all colonies, which have not yet constructed mounds. Do not use equipment that produces a pressurized spray since this will disturb Fire Ants and cause migration, reducing product effectiveness.	Mix 6.4 fl. oz. in 1 gallon of water.
Ants, Crickets, Earwigs, Fleas and Ticks	For localized infestations of these insects in areas where there are weeds or bushy non-crop areas, spray infested areas thoroughly. For Ants, thoroughly wet hills and runways.	For severe infestation, dilute 1 part concentrate in 19 parts water (6.4 fl. oz. per gallon of water) (0.5%) and treat 400 linear feet with a 6-inch spray band. For normal infestations, dilute 1 part concentrate in 39 parts water (3.2 fl. oz. per gallon) (0.25%).
Clover Mites, Millipedes, Sowbugs (Pillbugs)	To help prevent infestation of buildings, treat the building foundation to a height of 2 to 3 feet where pests are active and may find entrance. Also, apply as a residual spray to outside surfaces of buildings, patios, garages, and other areas where these pests may be found.	
Armyworms, Cutworms, Chinch Bugs, Sod Webworms	Thoroughly wet down grass a few hours before applying. Home lawns should be no taller than 3 inches at time of application. Delay watering or mowing for 24 hours after treatment. For heavy infestation, repeat application after 2 weeks. Not for wide area treatments.	Mix 3.2 fl. oz. per gallon of water and treat 1,000 sq. ft. Slightly more water may be used as long as the amount of product per area is the same.

**ANIMALS AND ANIMAL PREMISE USE AREAS** including Cattle Barns, Swine Houses, Milk Rooms, Poultry Houses, Horse Barns, Kennels, Dairies, Milking Parlors.

For use on Dairy and Beef Cattle, Sheep, Goats, Swine, Horses, Poultry and Dogs:

Pests controlled	Use directions	Dilution rate
Horn Flies, House Flies, Mosquitoes and Gnats	Apply to wet the hair thoroughly, with particular attention to topline, underline, flanks, withers, and other infested areas. Repeat treatment at intervals of 5 to 12 days for small insect populations or as needed when flies are emerging in large numbers.	
Stable Flies, Horse Flies and Deer Flies	Apply a quart per adult animal to wet the hair thoroughly with particular attention to the legs, flanks, barrel, topline and other body areas commonly attacked by those flies. Repeat daily as needed.	For cleanup of severe insect infestation, dilute at a rate of 1 part concentrate in 100 parts water (1.28 fl. oz. per gallon) (8 teaspoonfuls per gallon) (0.1%).
Face Flies	Apply using spray that produces large wetting droplets. Apply to the face of the animal in the morning before releasing to pasture. Apply sufficiently to wet the face, but not more than 1 1/2 fluid ounces per animal. Apply with care to avoid contact with eyes and mouth. Repeat daily as needed.	For normal infestations, dilute 1 part concentrate in 200 parts water (0.64 fl. oz. per gallon) (4 teaspoonfuls per gallon) (0.05%).
Poultry Lice	Spray roosts, walls and nests or cages thoroughly, followed by spraying over the birds with a fine mist.	For maintenance use, dilute 1 part concentrate in 400 parts water (0.32 fl. oz. per gallon) (2 teaspoonfuls per gallon) (0.025%).
Bed Bugs and Mites (including Northern Fowl Mites) in poultry houses	Spray crevices of roost poles, cracks in walls and cracks in nests where the Bed Bugs and Mites hide. Spray birds with a fine mist paying particular attention to vents. Use at the rate of 1 gallon of spray per 100 birds.	
Sheep "Tick" or Ked	Thoroughly wet all portions of the body by dipping or spraying with sufficient pressure and with a nozzle adjustment to give penetration of the wool. Avoid contact with animal's eyes and mouth. Treat at a rate sufficient to wet the animal.	
Mealworms, Darkling Beetles	Apply as a fog or fine mist, directing the spray toward the ceiling and upper corners until the area is filled with mist. Use about 2 fluid ounces per 1,000 cubic feet of space. For best results, close doors and windows before spraying and keep closed for 10 to 15 minutes. Vacate the treated area and ventilate before reoccupying.	For initial cleanup of severe insect infestation, dilute at a rate of 1 part concentrate in 100 parts water (1.28 fl. oz. per gallon) (8 teaspoonfuls per gallon) (0.1%). For normal infestations, dilute 1 part concentrate in 200 parts water (0.64 fl. oz. per gallon) (4 teaspoonfuls per gallon) (0.05%). For maintenance use, dilute 1 part concentrate in 400 parts water (0.32 fl. oz. per gallon) (2 teaspoonfuls per gallon) (0.025%).
Horn Flies, Face Flies, Horse Flies, Ear Ticks	Back rubber—keep back rubber charged. Results can be improved by forced use.	Dilute 8 fluid ounces in 5 gallons oil.
Blowflies, Hog Lice, Ticks (including deer ticks, carrier of Lyme disease)	Spray or dip to apply 1 pint per pig, especially around ears.	Dilute 1.28 fluid ounces per gallon of water (1 part concentrate to 100 parts water) (0.10%).
Poultry Mites, Northern Fowl Mites and Lice	Spray at the rate of 1 gallon per 100 birds, with a fine mist. Spray roosts, walls and nests or cages.	
Fleas, Ticks, Lice and Mange Mites (adults and larvae) on dogs and livestock	Thoroughly wet the animal by dipping, sponging or spraying. Allow animal to dry in a warm place without rinsing or toweling. Gives long lasting protection against reinfestation. Repeat applications at intervals of 2 to 3 weeks. <b>DO NOT TREAT PUPPIES LESS THAN TWELVE WEEKS OLD.</b> Sensitivities may occur after using ANY pesticide product for pets. If signs of sensitivity occur, bathe your pet with mild soap and rinse with large amounts of water. If signs continue, consult a veterinarian immediately. Consult a veterinarian before using this product on debilitated, aged, medicated, pregnant or nursing animals.	For cleanup of severe insect infestation, dilute at a rate of 1 part concentrate in 100 parts water (1.28 fluid ounces per gallon) (8 teaspoonfuls per gallon) (0.1%). For normal infestations, dilute 1 part concentrate in 200 parts water (0.64 fluid ounces per gallon) (4 teaspoonfuls per gallon) (0.05%). For maintenance use, dilute 1 part concentrate in 400 parts water (0.32 fluid ounces per gallon) (2 teaspoonfuls per gallon) (0.025%).
Fleas, Flies, Ticks, Lice and Mange Mites (adults and larvae) in kennels, doghouses, runs and yards	Test delicate fabrics in an inconspicuous area prior to use. Thoroughly spray infested areas, pet beds, resting quarters, nearby cracks and crevices, along and behind baseboards, moldings, window and door frames, and localized areas of floor and floor coverings (rugs and carpets). Fresh bedding should be placed in animal quarters once spray has dried. Adult fleas and larvae contacted by spray will be killed.	For initial cleanup of severe insect infestation, dilute at a rate of 1 part concentrate in 19 parts water (6.4 fluid ounces per gallon) (0.5%). For normal infestations, dilute 1 part concentrate in 39 parts water (3.2 fluid ounces per gallon) (0.25%). For maintenance use, dilute 1 part concentrate in 100 parts water (1.28 fluid ounces per gallon) (8 teaspoonfuls per gallon) (0.1%).

FOR DAIRY CATTLE: Spray lactating dairy cows only after milking is complete.

FOR SWINE: Do not ship animals for slaughter within 5 days of last treatment.

**DIRECTIONS FOR USE IN AUTOMATIC MISTING AND ULV SPRAYING SYSTEMS:**

In areas such as animal quarters, dairy and beef barns, poultry houses, swine housing, warehouses, zoos and other listed livestock or animal housing areas.

To kill Flies, House Flies, Horn Flies, Stable Flies, Deer Flies, Horse Flies, Mosquitoes, including the Culex species that may carry and transmit the West Nile virus, Gnats, Hornets, Wasps, Yellowjackets, Firebrats, Small Flying Moths, Earwigs, Fleas, Ticks – including Deer Ticks that may transmit Lyme disease, Crickets, Cockroaches, Silverfish, Spiders and other listed insects: Mix 1/2 gallon (64 fluid ounces) of concentrate in 55 gallons of water to yield a solution of 0.09% Permethrin and 0.09% 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 of water to yield a solution of 0.18% Permethrin and 0.18% Piperonyl Butoxide. When filling tank, partially fill the system reservoir tank with water, add concentrate to tank, then add water to obtain desired dilution.

System nozzles should deliver fine particle size droplets (aerosol or mist). Utilize nozzles that are rated for a delivery rate not to exceed 1.25 fluid ounces of solution per minute, with one nozzle covering 100 square feet. Set system timer to operate in accordance with equipment directions. Automatic spraying systems must not be designed and programmed to release pesticides where feed is directly exposed to spray mist.

Have personnel vacate containment treatment areas while treatment is in progress. Thoroughly ventilate treated area prior to re-entry by personnel. Do not use in commercial food/feed handling establishments, restaurants, or other areas where food is commercially prepared or processed.

**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, House Flies, Gnats, Deer Flies, Horse Flies, Hornets, Wasps, Yellowjackets, Firebrats, Small Flying Moths, Earwigs, Fleas, Ticks – including Deer Ticks that may transmit Lyme disease, Crickets, Cockroaches, Silverfish, Spiders and other listed nuisance insects.

Residential misting system 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.

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

Do not use in an evaporative cooling system.

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 Sector® Misting Concentrate to \_\_\_ parts water.

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

Only use this product in residential misting systems that have been calibrated to apply no more than the maximum application rate of 9.5 fluid ounces of 0.09% synergized permethrin solution per 1,000 cubic feet per day.

Mix 1/2 gallon (64 fluid ounces) of concentrate in 55 gallons of water to yield a solution of 0.09% Permethrin and 0.09% 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 of water to yield a solution of 0.18% Permethrin and 0.18% Piperonyl Butoxide. When filling tank, partially fill the system reservoir tank with water, add concentrate to tank, then add water to obtain desired dilution.

System nozzles should deliver fine particle size droplets (aerosol or mist). Direct nozzles to spray towards the target area and away from swimming pools, water bodies, or eating and cooking areas. 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 that tank size, to be mixed with water to achieve 0.09% synergized permethrin solution
1	1.16	1.16
15	1.16	17
20	1.16	23
30	1.16	35
55	1.16	64

**When refilling a partially filled tank:** Calculate the amount of additional solution (in gallons) required to fill the tank to the desired level. Multiply the number of gallons required to refill tank times 1.16 to determine the amount of this concentrate to add when refilling (to achieve 0.09% synergized permethrin solution).

PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

## CAUTION

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

### PERSONAL PROTECTIVE EQUIPMENT

Mixers, loaders, applicators, and other handlers must wear:

- Long-sleeved shirt
- Long pants
- Shoes and socks
- Chemical-resistant gloves for all handlers except for applicators using motorized ground equipment, pilots, and flaggers.

In addition to the above PPE, applicators using handheld foggers or fog/mist generators in indoor spaces must wear a half-face, full face, or hood-style NIOSH-approved respirator with:

A NIOSH-approved particulate filter with any N, R, or P filter with NIOSH approval number prefix TC84A; or a NIOSH-approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C.

### USER SAFETY RECOMMENDATIONS

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 material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them. Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible wash thoroughly and change into clean clothing.

### ENVIRONMENTAL HAZARDS

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

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 foraging in the treatment area.

### PHYSICAL OR CHEMICAL HAZARDS

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

## KEEP OUT OF REACH OF CHILDREN

## CAUTION

## FIRST AID

### IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Have person sip a glass of water if able to swallow.
- Do not give anything by mouth to an unconscious person.

### IF ON SKIN OR CLOTHING:

- 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.

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.

## STORAGE AND DISPOSAL

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

### PESTICIDE STORAGE:

Store in a cool, dry area under lock and key. Post as a pesticide storage area. Always store pesticides in the original container. Store away from food, feed, seed, fertilizers, and veterinary supplies. Place formulations on lower shelves and dry formulations above.

### PESTICIDE DISPOSAL:

To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

### CONTAINER HANDLING AND DISPOSAL:

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill.

[For totes/55 gal containers]

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Triple rinse as follows [for containers of 5 gallons or less]: 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 or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Triple rinse as follows [for containers greater than 5 gallons]: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ 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 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.

[Or for Refillable containers]

Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. 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 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into rinsate collection system. Repeat this rinsing 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.

