

APPLICATION SITES	PESTS CONTROLLED	USE DIRECTIONS	DILUENT	DILUTION RATE	APPLICATION RATE	DOSE RATE
AS A SURFACE SPRAY Bakeries, Beverage Plants, Canteens, Flour Mills, Food Processing Plants, Grain Elevators, Greenhouses, Homes, Hospitals, Hotels, Industrial Installations, Kennels, Meat Packaging Plants, Motels, Office Buildings, Railroad Cars, Restaurants, Schools, Ships' Holds, Supermarkets, Truck Trailers, and Warehouses.	Cockroaches, Waterbugs, Palmate Bugs, Arise, Silverfish, Firebrats, Spiders, Crickets, Millipedes, Centipedes, Sowbugs, Pillbugs, Clover Mites, Cheese Mites, Granary Weevils, Rice Weevils, Confused Flour Beetles, Red Rust Flour Beetles, Ear-toothed Grain Beetles, Spider Beetles, Cigarette Beetles, Drugstore Beetles, Mealworms, Grain Mites, And Caddisflies.	For initial clean up of severe insect infestations	Water	1 part concentrate in 10 parts water (13.5 l. conc. per gallon)	1 gallon to 750 square feet of surface	
		For normal infestations: Use a good 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 baseboards for Silverfish. Spray rat holes, nests and points of entry.	Water	1 part concentrate in 20 parts water (6.5 l. conc. per gallon)	1 gallon to 750 square feet of surface	
	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 area of shelving. Repeat treatment as necessary.	Water	1 part concentrate in 20 parts water (6.5 l. conc. per gallon)		
	Bedbugs	Spray mattresses lightly particularly around tufts and seams. Take tufts apart and spray in all joints. Treat baseboards, moldings and floors. After all treated articles are thoroughly dry before use. Repeat treatment as needed.	Water	1 part concentrate in 20 parts water (6.5 l. conc. per gallon)		
	Flies and Ticks (Adults and Larvae)	Thoroughly spray infested areas, pet beds, resting quarters, nearby cracks and crevices, along and behind baseboards, moldings, window and door frames, and lamplard or use of floor and floor covering. Fresh bedding should be placed in animal quarters following treatment.	Water	1 part concentrate in 20 parts water (6.5 ounces per gallon)		
		ON DOGS: To control fleas, ticks - Start spraying at the tail, moving the dispenser rapidly and making sure that the animal's entire body is covered, including the legs and underbody. While spraying, hold the hose so that the spray wets thoroughly. Do not spray into eyes and ears. Avoid contact with genitalia. Repeat as necessary. Do not use on old, sick or debilitated animals. NOTE: NOT RECOMMENDED FOR USE ON PUPPIES LESS THAN FOUR WEEKS OLD.	Water	1 part concentrate in 17 parts water (7.9 fluid ounces per gallon)		
Trees and Shrubs	Gypsy moth caterpillars and adults, adult Japanese beetles and Eastern and pest tent caterpillars	Apply to ensure thorough coverage of upper and lower surfaces. On trees and shrubs: Treat trees and shrubs as buds emerge (Usually spring). Treat leaves, twigs and tree trunks evenly, making sure to penetrate dense foliage. Repeat application every 7 days or as necessary for control. On roses and in flower gardens: Treat plants and flowers as soon as buds appear. Spray plants and flowers making sure to penetrate dense foliage. Repeat application every 7 days or as necessary for control.	Water	1 part concentrate in 41 parts water (3.2 fl. ounces per gallon of water)		
Walls, ceilings, moldings, screens, door frames, beams, light cords, and similar resting places.	Mosquitoes, Wasps, Gnats, Shoppers	Treat surfaces using coarse wet spray. Spray to run off.	Water	1 part concentrate in 20 parts of water (6.5 l. conc. per 1 gallon of water)		
LIVESTOCK SPRAY: Dairy & Beef Cattle, Sheep, Goats, Swine, Horses and Poultry. (For swine, do not ship animals for slaughter within 5 days of last treatment.)	Horn Flies, House Flies, Mosquitoes And Gnats	Apply to wet the hair thoroughly, with particular attention to top line, underline, belly, 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.	Water	1 part concentrate in 20 parts water (6.5 l. conc. per gallon)		
	Stable Flies, Horse Flies And Deer Flies	Apply a quart per adult animal to wet the hair thoroughly with particular attention to the legs, belly, barrel, top line and other body areas commonly attacked by these flies. Repeat treatment as needed.	Water	1 part concentrate in 20 parts water (6.5 l. conc. per gallon)		
	Face Flies	Apply using spray which 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 1.5 ounces per animal. Repeat daily as needed.	Water	1 part concentrate in 20 parts water (6.5 l. conc. per gallon)		
	Poultry Flies	Spray heads, necks and necks or cages thoroughly. This should be followed by spraying over the birds with a fine mist.	Water	1 part concentrate in 20 parts water (6.5 l. conc. per gallon)		
	Bedbugs and Mites in poultry houses	Spray crevices of roost poles, cracks in walls and cracks in nests where the bedbugs and mites hide.	Water	1 part concentrate in 20 parts water (6.5 l. conc. per gallon)		
	Sheep "tick" or head	Thoroughly wet all portions of the body by dipping or by spraying with milked pressure and with a nozzle adjustment to give penetration of the wool. Treat at a rate sufficient to wet the animal.	Water	1 part concentrate in 20 parts water (6.5 l. conc. per gallon)		
	Flies on Livestock (To kill and to protect against reinestation)	Wet the animal by dipping or spraying.	Water	1 part concentrate in 20 parts water (6.5 l. conc. per gallon)		
	Flies, Mosquitoes and Gnats in Barns, Milking Parlors, Milk Rooms, Dairies and Poultry Houses	Apply as a fog or fine mist, directing the spray toward the ceiling and upper corners until the area is filled with mist, using about 2 ounces per 1000 cubic feet of space. For best results, close doors and windows before spraying and keep them closed for ten to fifteen minutes. Ventilate the treated area and ventilate before respraying. Repeat treatment as necessary.	Water	1 part concentrate in 20 parts water (6.5 l. conc. per gallon)		

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<u>SPACE SPRAY</u> Bakeries, Beverage Plants, Canneries, Flour Mills, Food Processing Plants, Greenhouses, Hospitals, Hotels, Industrial Installations, Kitchens, Meat Packaging Plants, Motels, Office Buildings, Poultry Cans, Restaurants, Schools, Ships' Holds, Supermarkets, Truck Trailers, Warehouses.	House Flies, Fruit Flies, Gnats, Mosquitoes, Skipper Flies, Wasps, Hornets, Bees, Blackflies, Small Flying Moths.	Apply with mechanical or compressed air equipment (p.s.i.-thrust) adjusted to deliver a fine mist. Close doors and windows and shut off ventilating systems. When using an oil diluent for space spraying, extinguish all flames and pilot lights when applying. For rapid control effectiveness, Fruit Flies, Gnats, Mosquitoes, Skipper Flies, Wasps, Hornets, Bees, Blackflies, Small Flying Moths, direct spray at an upward angle distributing evenly through the entire area at a rate of 1 ounce per 1000 cubic feet of space. Keep area closed for at least 10 minutes. Ventilate areas after treatment and ventilate and sweep up dead insects before reentering. For rapid kill of eggs and/or accessible stages of other insects named on this label, apply using conventional, mechanical or compressed air equipment (non-thrust) following directions for space spraying.	Oil or Water	1 part concentrate in 20 parts oil or water (5.5 fluid ounces per gallon)	1 ounce per 1000 cubic feet	
Animal Houses, Corals, Drive-in Restaurants, Drive-in Theaters, Race Tracks, Gardens, Golf Courses, Parks, Playgrounds, Recreational Areas, Urban Areas, Zoos, Etc.	Mosquitoes, Gnats, biting and non-biting Midges, Blackflies, and other biting Flies.	Apply using vehicle mounted ULV equipment to create an insecticidal swath. For best results apply when there is a light breeze (i.e., about 5 mph) and apply in direction of breeze to obtain maximum swath and better distribution. Do not apply if winds exceed 10 mph. The target dose rate to be applied is up to 0.007 lb. a.i. per acre. This can be achieved under different conditions by altering the flow of insecticide from the equipment and/or the speed of the vehicle. Apply 3.5 to 7.0 fluid ounces per minute at vehicle speeds of 5-10 miles per hour using swath widths of 100-300 feet as appropriate to local conditions. At higher vehicle speeds flow rates should be increased proportionately to achieve the target dose rate. Not to be used within 100 feet (30 meters) of lakes and streams. In treatment of corals, food lots, guano lots and pens, cover any exposed drinking water, drinking fountains and animal feed before application. Allow 24 hours before retreating. Do not apply more than once in a 24 hour period.	Oil or Water	1 part concentrate with 1 part vehicle oil solvent, or at proportion of diluent calculated on the basis of vehicle speed and swath width to achieve the target dose.	Dependent of swath width, flow rate and speed of vehicle.	Up to 0.007 lb. of active ingredient per acre.
<u>BARRIER SPRAY</u> Perimeter of residential yards, public facilities, paths, and recreational areas.	As an aid in reducing mosquito annoyance. To kill and control biting and non-biting midges, deer flies and other biting flies.	Apply when walking at a speed of approximately 2 mph or a swath of 60 feet treating approximately 0.2 acre/minute.	Oil or water	1 part concentrate in 5.2 parts of a suitable diluent, or at proportion of diluent calculated on the basis of vehicle speed and swath width to achieve the target dose.	Apply 17.5 fluid ounces of diluted material per acre.	Approx. 0.1 lb. per acre