



PERMITH

**A Concentrated PERMATONE®
Stable Emulsion**

Effective, Fast Acting Insecticide

Recommended for commercial & agricultural
use and Mosquito Abatement District Officials.
Authorized by USDA for use in federally
inspected meat and poultry plants.

Product # 5149

For Professional Use Only

ACTIVE INGREDIENTS	% BY WEIGHT
*PERMETHRIN	0.50%
<small>PERMATONE® is a registered trademark of Fairfield American Co. *(3-phenoxyphenyl)methyl (cis/trans 3-(2,2-dichloro-ethenyl)2,2-dimethyl- cyclopropanecarboxylate. Cis/trans ratio: min.35%cis and max.65% trans.</small>	

Additional Information

SPACE SPRAYING: Close doors and windows and shut off ventilating systems. Apply with a good machine adjusted into deliver a fine mist or fog. For rapid control of house flies, fruit flies, gnats, mosquitoes, skipper flies, wasps, hornets, bees, blackflies, Angoumois grain moths, Mediterranean flour moths, Indian meal moths and tobacco moths. Direct spray at an upward angle, distributing uniformly throughout the entire area at a rate of 1 ounce per 1000 cubic feet of space. Keep area closed for 2 hours. Ventilate before reoccupying.

Fogging: To kill exposed or accessible stages of the above named crawling insects, use a rate of 1 gallon to 20,000 - 40,000 cubic feet of space. Contact insect directly when possible. Keep area closed for 2 hours. Ventilate before reoccupying.

ON LIVESTOCK: To protect cattle (beef and dairy), goats, sheep, hogs and horses from horn flies face flies, house flies, mosquitoes and gnats: Apply a light mist sufficient to wet the surface of the hair. For face flies, spray face and head, but do not spray into eyes.

To control stable flies, horse flies and deer flies: Apply at a rate of 2 ounces per adult animal sufficient to wet the hair thoroughly. Repeat treatment daily or at intervals necessary to give continued protection.

To control bloodsucking lice: Apply to the infested areas of the animal, using a stiff brush to get the spray to the base of the hair. Repeat every 3 weeks if required.

To control poultry lice: Spray roosts, walls and nests or cages thoroughly. This should be followed by spraying over the birds with a fine mist.

To control bedbugs and mites in poultry houses: Spray crevices of roost poles, cracks in walls, and cracks in nests where the bedbugs and mites hide.

ON DOGS: To control fleas, ticks and lice: Start spraying at the tail moving the dispenser rapidly and making sure that the animal's entire body is covered, including the legs and under body. While spraying wearing gloves, fluff the hair so that the spray will penetrate to the skin. Make sure spray wets thoroughly. Do not spray into eyes or face. Avoid contact with genitalia. Repeat as necessary. Do not use this or any other pesticide on sick, old or debilitated animals. NOTE: Not recommended for use on puppies less than 4 weeks old.

OUTDOOR APPLICATION:

FOR CONTROL OF GARDEN INSECTS: For use on roses, dahlias, asters and other ornamentals to kill Japanese beetles hit by spray as well as whiteflies, aphids, exposed thrips, spiders, red mites and leafminers. May be used on plants as a multipurpose spray in small gardens and for spot treatments incipient insect infestations to prevent spreading in large garden areas. May also be used on other plants such as African violets, asters, azaleas, begonias, camellia carnations, chrysanthemums, dahlias, delphiniums, dogwoods, English ivy, eunonymous, fuschi, geraniums, crassula, grape vines, Kentia palms, laurels, marigolds, rhododendrons, roses, rubb plants, snapdragons, stocks, wandering Jews and zinnias. Effective when used as directed against whiteflies, aphids, spider and red mites, exposed thrips, lace bugs, Japanese beetles, pavement ants, clover mites and armyworms. When spraying plants, do not operate closer than 18 inches. Use sweeping motion. Be cautious about wetting tender foliage, young plants and new growth. Do not spray plants when temperature exceeds 90 degrees Fahrenheit. Contact insects directly whenever possible. Repeat treatment as infestations occur.

ADULT MOSQUITO CONTROL: Apply as a fine mist to thoroughly treat the entire area. For best results, treat when the wind velocity does not exceed 5 miles per hour. Treat shrubbery or vegetation where mosquitoes may rest (low marshy places). Apply at a rate of 2.5 pints per acre (0.9 ounce per 1000 square feet). Using truck mounted conventional misting equipment such as Rotomist model 51C, 91 or 100 HT traveling at 5 m.p.h. to treat a 300 foot swath, calibrate equipment to deliver 0.9 gallon per minute. Under no conditions should open water be treated with this product. Not to be used within 100 feet 30 meters of lakes and streams.

DIRECTIONS FOR USE:

For space spraying or fogging indoors wear a NIOSH or MSHA approved respiratory protection device. Do not allow spray treatment to drift on pasture land, crop land, poultry ranges or water supplies. Do not use on crops used for food, forage or pasture. This product is approved for use in USDA Meat and Poultry Plants.

SHAKE WELL BEFORE USE

Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

INDOOR APPLICATION:

Do not use in food areas of food handling establishments, 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 or areas where prepared foods are served such as dining rooms but excluding areas where foods may be prepared or held. Nonfood areas or areas such as garbage rooms, lavatories, floor drains (to sewers), entry's and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling). Vacate treated areas and ventilate before reoccupying. For maximum effectiveness, a combination of spot, surface treatment and fogging are recommended.

SURFACE SPRAYING: To control cockroaches, waterbugs, palmetto bugs, scorpions, millipedes, centipedes, sowbugs, pillbugs, ants, silverfish, firebrats, spiders, crickets, clover mites, cheese mites, granary weevils, rice weevils, confused flour beetles, rust red flour beetles, saw-toothed grain beetles, spider beetles, cigarette beetles, drugstore beetles, mealworms, grain mites and cadelles. Use a good sprayer adjusted to a coarse wet spray and direct spray into hiding places, cracks and crevices, under pallets, around containers of stored foods, around the base of machinery, and behind shelves and drawers. For silverfish, spray bookcases. For ants, spray trails, nests and points of entry. If surface application only is to be used, spray floors and other surfaces applying at a rate of 1 gallon to 750 square feet of surface.

To control carpet beetles: Spray edges of carpeting and under carpeting and rugs. Make localized application to floor and baseboards. Spray directly into cracks, crevices and infested areas of shelving. Repeat treatment as needed.

To control bedbugs: Spray mattresses lightly particularly around tufts and seams. Take beds apart and spray in all joints. Treat baseboards, moldings and floors. Repeat treatment as needed. Allow all treated articles to thoroughly dry before use.

To control fleas 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 entire areas of floor and floor covering. Fresh bedding should be placed in animal quarters following treatment. Repeat treatment as needed.

To control clothes moths: Remove any 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 storage areas, 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.

To kill lice and louse eggs: Spray in an inconspicuous area to test for possible staining or discoloration. Inspect again after drying, then proceed to spray entire area to be treated. 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.

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