

Use Permanone 3.4 E.C. as a residual treatment for control of Ticks including the *Deer Tick (Ixodes dammini)*, *Western Black-*

legged Tick (*Ixodes pacificus*), Lone Star Tick (*Amblyomma americanum*), American Dog Tick (*Dermacentor variabilis*) and Brown Dog Tick (*Rhipicephalus sanguineus*).

ON DOGS: To control fleas and ticks

AS A SPRAY - Dilute 1.0 to 1.5 fluid ounces of Permanone 3.4 E.C. in 4 gallons of water. Start spraying diluted product 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, fluff the hair so that the spray wets thoroughly. Do not spray into eyes and face. Avoid contact with genitalia. Repeat as necessary. Do not use on old, sick or debilitated animals.

AS DIP - Wet the dog with water before treatment. Sponge, dip or pour diluted product on the dog until its fur and skin are thoroughly wet, making sure that the animal's entire body is treated, including the legs and underbody. Do not treat the dog's face.

NOTE: Not recommended for use on puppies less than four weeks old.

PREMISE TREATMENT

Dilute 3 ounces of Permanone 3.4 E.C. in 2 gallons of water to make a 0.5% dilution and treat around windows and doors, porches, screens, eaves, patios, garages, under stairways and in crawl spaces where these pests may occur. Apply until surface is wet (approximately 1 gal./750-1000 sq. ft.).

OUTDOOR TREATMENT (for *Ixodes dammini* & *pacificus* only)

Apply in water at the rate of 4 - 8 ounces per 100 gallons using enough finished spray to penetrate foliage, usually 50 to 100 gallons per acre (4 - 8 oz./acre = 0.1 - 0.2 pounds active ingredient per acre). Use truck-mounted or portable backpack equipment designed for either ULV or hydraulic applications. Treat dense vegetation (long grass, shrubs, weeds, leaf litter) in outdoor activity areas such as roadsides, footpaths and trails, picnic and camping sites, parks and other recreational areas. To help prevent infestations of buildings by above pests, treat a band of vegetation 8 - 10 feet adjacent to the structure.

LIVESTOCK SPRAY (dairy & beef cattle, sheep, goats, swine, horse and poultry)

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

TO CONTROL Horn Flies, House Flies, Mosquitoes and Gnats, dilute at the rate of from 1 to 4 fluid ounces per 3.75 gallons of water (1 to 4 parts in 480 parts water) and 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 fleas are emerging in large numbers.

TO CONTROL Stable Flies, Horse Flies and Deer Flies, dilute at the rate of from 1 to 4 fluid ounces per 3.75 gallons of water (1 to 4 parts in 480 parts water) and apply a quarter per adult animal to wet the hair thoroughly with particular attention to the legs, flanks barrel, topline and other body areas commonly attacked by these flies. Repeat treatment as needed.

TO CONTROL Face Flies, dilute at the rate of from 1 to 4 fluid ounces per 3.75 gallons of water (1 to 4 parts in 480 parts water) and 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 1-1.2 ounces per animal. Repeat daily as needed.

TO CONTROL Lice (including Poultry Lice), Northern Mites and Mange, using a dilution of from 1 to 4 fluid ounces per 3.75 gallons of water, spray roosts, walls and nests or cages thoroughly. This should be followed by spraying over the birds with a fine mist. Use at a rate of 1 gallon per 100 birds. For Swine,

thoroughly soak animal, including ears. Retreat at 14 days for Mange. Treat walls and bedding.

FOR CONTROL of Bedbugs and Mites in poultry houses, dilute at the rate of from 1 to 4 fluid ounces per 3.75 gallons of water (1 to 4 parts in 480 parts water) and spray crevices of roost piles, cracks in walls and cracks in nests where the bedbugs and mites hide.

TO CONTROL Sheep "Tick" or Ked dilute at the rate of from 1 to 4 fluid ounces per 3 gallons of water (1 to 4 parts in 400 parts water) and thoroughly wet all portions of the body by dipping or by spraying with sufficient pressure and with a nozzle adjustment to give penetration of the wool. Treat at a rate sufficient to wet the animal.

To kill **Fleas** on livestock and to obtain protection against reinfestation, dilute at the rate of 1.6 fluid ounces per gallon of water and wet the animal by dipping or spraying.

IN BARNs, MILKING PARLORS, MILK ROOMS, DAIRIES, POULTRY HOUSES, SWINE AND LIVESTOCK HOUSING: To control **Flies, Mosquitoes and Gnats,** dilute at the rate of 1.6 fluid ounces per gallon of water and 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. Vacate the treated area and ventilate before reoccupying. Repeat treatment as necessary.

FOR TEMPORARY REDUCTION OF ANNOYANCE

From: **Flies, Gnats, Mosquitoes**

In the treatment of corrals, feedlots, swine lots and zoos, cover any exposed water, drinking fountains and animal feed before application. Fill the area with mist and direct the spray into tall grass, shrubbery and around lawns where the above pests may hover or rest. Apply while the air is still and avoid wetting foliage. In zoos, prevent exposure of reptiles to the product. Repeat as necessary.

Notice: Buyer assumes all responsibility for safety and use not in accordance with directions.

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