

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAY 21 1992

3015411324  
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Ms. Barbara J. Varner  
Unicorn Laboratories  
1000 188th Ave North  
St. Petersburg, Florida 33716

Dear Ms. Varner:

Subject: Label Amendment: Claims against Ticks which may carry  
Lyme Disease and  
Revision of Precautionary Statements  
Unicorn Permethrin RTU Spray  
EPA Registration No. 28293-125  
Unicorn General Purpose Aqueous Insecticide II  
EPA Registration No. 28293-179  
Your Letters dated October 25, 1991 and January 13, 1992

The amendment referred to above, submitted in connection with registration under section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), is acceptable provided that you:

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

2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

- a. Under the heading "Indoor Application" add the word "feed" to site currently designated as food i.e ----- Do not use in food/feed areas of food/feed handling establishments-----etc.
- b. Food/feed processing plants can imply use in U.S. Department of Agriculture (USDA) Meat and Plants. Therefore, either add the statement "Not for Use in USDA Meat and Poultry Plants" or submit an application to USDA requesting use in these areas. If granted, you can then indicate on the label that the product can be used in these areas.
- c. Change the paragraph under "Environmental Hazards" to

read as follows ~~CONCURRENCES~~

SYMBOL	This product is extremely toxic to fish and other						
SURNAME	.....						
DATE	.....						

- aquatic organisms. Do not apply directly to water, to areas where surface water is present or to intertidal or to intertidal areas below the high water mark.
- d. On top of the front label, revise/add the statement Recommended for Commercial /Agricultural----- officials.  
to read as follows:  
For Commercial /Agricultural Use and by Mosquito Abatement Officials Only.
- e. Under the heading "dogs"add the precaution Do not use on old , sick or debilitated animals.
- f. Under"adult mosquito control"revise the sentence to read-----when the wind velocity does not exceed 5 miles per hour but do not apply when wind speed exceeds 10 miles per hour.  
Also, following the last sentence in this paragraph, add:  
-----Not to be used within 100 feet (300 meters) of lakes and streams.
- g. Under indoor application following the last sentence of the first paragraph, add:  
-----In the home all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food/feed should be covered or removed.
- h. Under indoor application, add the following precaution:  
Do not apply to classrooms while in use.
- i. Also, you may delete the limitation "For space spraying/fogging indoor----- etc.

3. Submit five (5) copies of your final printed labeling before you release the product for shipment. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

George T. LaRocca  
Product Manager (13)  
Insecticide & Rodenticide Branch  
Registration Division (H7505C)

Enclosure

*P.S. On the front panel revise the statement to read,  
"xx which may carry Lyme Disease."*

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**UNICORN**

**PERMETHRIN RTU SPRAY**

**Recommended for Commercial/Agricultural Use  
and Mosquito Abatement Officials**

**A Concentrated PERMANONE Stable Emulsion INSECTICIDE/REPELLENT**

**For Use Outdoors and in Homes, Kennels and Non-Food Areas of  
Commercial Buildings: Warehouse, Theaters, Office Buildings,  
Schools, Motels, Hotels and Food/Feed Processing Establishments.**

**For Control of Fleas, Brown Dog Ticks  
and Lice on Premises and on Dogs.**

**For Control of Ticks which may cause  
Lyme Disease on Premises.**

**ACTIVE INGREDIENT:**

Permethrin\*..... 0.50%

**INERT INGREDIENTS:**..... 99.50%  
100.00%

\* (3-phenoxyphenyl) methyl (±) cis/trans 3-(2,2-dichloroethenyl)  
2,2-dimethylcylopropanecarboxylate.  
Cis/trans ratio: Min. 35% (±) cis and  
Max. 65% (±) trans

PERMANONE - Registered Trademark of Fairfield American Corporation.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**See Rear Panel for Use Cautions.**

**NET CONTENTS: ONE GALLON**

**Contains 8.29 lb. permethrin per gallon**

**MANUFACTURED BY:**

Unicorn Laboratories  
1002 118th Avenue North  
St. Petersburg, Florida 33716

ACCEPTED  
with COMMENTS  
in EPA Letter 12-1

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Under the Fungicide  
as registered in EPA  
registered in EPA

**EPA REG. NO. 28293-125-AA(E:9/10/90)**

~~EPA REG. NO.~~ **28293-125**

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**PRECAUTIONARY STATEMENTS**

**Hazardous to Humans and Domestic Animals**

**CAUTION:** Harmful if swallowed. May be absorbed through skin. Avoid inhalation of spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly after handling and before smoking or eating. Avoid contamination of feed or foodstuffs. Remove pets and birds and cover fish aquaria before space spraying or surface applications. Do not use on humans. Vacate room after treatment and ventilate before reoccupying. Do not allow children or pets to contact treated areas until surfaces are dry.

**Environmental Hazards**

Do not apply directly to water or wetlands. Drift runoff from treated areas may be hazardous to aquatic organisms in treated areas.

**Statement of Practical Treatment**

**IF SWALLOWED:** Drink one or two glasses of water and induce vomiting by touching the back of the throat with finger. Repeat until vomit fluid is clear. Call a physician immediately. Do not induce vomiting or give anything by mouth to an unconscious person.

**IF INHALED:** Remove affected person to fresh air. Apply artificial respiration if indicated.

**IF ON SKIN:** Remove contaminated clothing and wash affected areas with soap and water.

**IF IN EYES:** Flush eyes with plenty of water. Call a physician if irritation persists.

**DIRECTIONS FOR USE**

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

**SHAKE WELL BEFORE USING**

**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 are areas where prepared foods are served such as dining rooms, but excluding areas where foods may be prepared or held.

Non-food areas are areas such as garbage rooms, lavatories, floor drains (to sewers, entries and vestibules), offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning and bottling).

Vacate treated areas and ventilate before reoccupying. For maximum effectiveness, a combination of spot, surface treatment and fogging is recommended.

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**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, drugstore beetles, meal worms, grain mites and cadelles: Use a good sprayer adjusted to 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. 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. Allow all sprayed articles to dry thoroughly before use.

**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 sprayed articles to dry thoroughly before use.

**To control Fleas (adult and larvae) and Ticks, Including Ticks which may carry Lyme disease (adult 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. Allow to dry thoroughly before allowing pets to contact treated areas.

**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 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. Allow all sprayed articles to dry thoroughly before use.

**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.

**For space spraying/fogging wear a NIOSH or MSHA approved respiratory protection device.**

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

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**FOGGING:** To kill exposed or accessible states of the above named crawling insects, use a rate of 1 gallon to 20,000 to 40,000 cubic feet of space. Contact insects directly when possible. Keep area closed for two 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. Kills and repels horn flies up to 4 days.

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 blood-sucking 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 three 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 underbody. While spraying, 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.

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

#### **OUTDOOR APPLICATION**

#### **TO CONTROL TICKS, INCLUDING TICKS WHICH MAY CARRY LYME DISEASE (PERIMETER TREATMENT):**

Use Unicorn Permethrin RTU Spray as a residual treatment to control Ticks including the Deer Tick (*Ixodes dammini*), Lone Star Tick (*Amblyomma americanum*), Brown Dog Tick (*Rhipicephalus sanguineus*), American Dog Tick (*Dermacentor variabilis*) and Western Black-legged Tick (*Ixodes pacificus*).

For each areas listed below, apply until surface is wet (approximately 1 gal/750-1000 ft<sup>2</sup>).

Treat around windows and doors, porches, screens, eaves, patios, garages, under stairways and in crawl spaces where these pests may enter.

Treat a band of vegetation and leaf litter 6 to 10 feet wide around the outside of buildings to help control ticks occurring there.

To help control ticks in outdoor activity areas, treat a band of vegetation and leaf litter 6 - 10 feet wide and adjacent to activity areas, especially where dense vegetation occurs.

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**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 multi-purpose spray in small gardens and for spot treatments of incipient insect infestations to prevent spreading in large garden areas.

May also be used on other plants such as African violets, asters, azaleas, begonias, camellias, carnations, chrysanthemums, dahlias, delphiniums, dogwoods, English ivy, eunonymus, fuschia, geraniums, crassula, grape vines, Kentia palms, laurels, marigolds, rhododendrons, roses, rubber 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 temperatures exceed 90°F. 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 when mosquitoes may rest. Not to be used within 100 feet (30 meters) of lakes, streams or wetlands. Apply at a rate of 2.5 pints per acre (0.9 ounces per 1000 square feet). Using truck-mounted conventional misting equipment such as Rotomist models 51C, 91 or 100 HT traveling at 5 mph to treat a 300 foot swath, calibrate equipment to deliver 0.95 gallon per minute. Under no conditions should open water be treated with this product.

#### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE AND SPILL PROCEDURES:** Store upright at room temperature. Do not expose to freezing temperatures. Avoid exposure to extreme temperatures. In case of spill or leakage, soak up with an absorbent material such as sand, sawdust, fuller's earth, etc. Dispose of with chemical waste.

**PESTICIDE DISPOSAL:** Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of at or by an approved waste disposal facility.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent), then offer to recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved State and local procedures.

**CONTAINERS ONE GALLON AND SMALLER:** Do not transport or store below 32°F. Do not reuse container. Wrap container in several layers of newspaper and discard in trash.

BUYER ASSUMES ALL RISKS OF USE, STORAGE OR HANDLING OF THIS PRODUCT NOT IN STRICT ACCORDANCE WITH DIRECTIONS GIVEN HEREWITH.