



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (H7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:

28293-290

Date of Issuance:

NOTICE OF PESTICIDE:

- Registration
- Reregistration

Term of Issuance:

Conditional

(under FIFRA, as amended)

Name of Pesticide Product:

Unicorn Permethrin WB Spray

Name and Address of Registrant (include ZIP Code):

Unicorn Laboratories  
13535 Feather Sound Drive, Suite 400  
Clearwater, FL 34622-5587

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

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

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

a. Add the phrase "EPA Registration No. 28293-290".

b. Based upon the type of directions (commercial) and the fact that this product is not ready to use nor applied from the original container replace the statement "Recommended for agricultural/commercial use with: "For Agricultural/Commercial Use Only".

Signature of Approving Official:

Date:

2079

c. Either delete the statement "AUTHORIZED BY U.S.D.A. FOR USE IN THE INEDIBLE PRODUCTS AREAS OF OFFICIAL ESTABLISHMENTS OPERATING UNDER THE FEDERAL, MEAT, POULTRY, SHELL EGG GRADING, AND EGG PRODUCTS INSPECTION PROGRAMS" and the corresponding use directions or provide us with a copy of your USDA authorization letter. If you delete the claim add "Not for Use in Federally Inspected meat and Poultry Plants.". Please note you can shorten the above phrase to "For use in Federally Inspected Meat and Poultry Plants".

d. Under PRECAUTIONARY STATEMENTS change "Wash thoroughly after handling." to read "Wash thoroughly with soap and water after handling."

e. Change "For use outdoors and in homes and non-food areas of.." to read "For use outdoors and in homes and non-food/feed areas of..".

f. Under ENVIRONMENTAL HAZARDS add "Do not apply this product or allow it to drift to blooming crops of weeds while bees are actively visiting the treatment area."

g. Under Outdoor Use Areas after "Direct the spray into tall grass, shrubbery and around lawns, where these pests may hover or rest." add "Apply while the air is still and avoid wetting foliage."

h. Under use directions replace the phrase "spray to runoff" and "to the point of runoff" with "spray thoroughly but do not allow runoff to occur."

i. Under Pests On Dog Premises change "Thoroughly wet pest breeding or rest ing- and areas to runoff." to read "Thoroughly spray infested areas, pet beds, and resting quarters. Fresh bedding should be placed in animals quarters following treatment."

j. Under premise spray in cattle barns, horse barns etc. add "Remove animals prior to treatment."

k. This label must be updated to incorporate statements in PR Notice 96-6 (Pet Pesticide Product Label Statements). Under Precautionary Statements Hazards to Humans and Domestic Animals add the following statements: "Consult a veterinarian before using this product on debilitated, aged, pregnant or nursing animals.", "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." and "Certain medications ca interact with pesticides. consult a veterinarian before using on medicated animals."

l. Change "PESTS ON DOGS (DO NOT TREAT PUPPIES LESS THAN FOUR WEEKS OLD" to read "PESTS ON DOGS (USE ONLY ON DOGS) (DO NOT TREAT PUPPIES LESS THAN TWELVE WEEKS OLD)".

m. Under PESTS ON DOGS change "Gives long lasting protection against reinfestation and applications at intervals of two to three weeks." to "Do not reapply product for two to three weeks."

3. Submit two (2) 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 constitutes acceptance of these conditions.

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

Enclosure

479

**UNICORN  
PERMETHRIN WB SPRAY  
EMULSIFIABLE CONCENTRATE/REPELLENT  
LIVESTOCK AND PREMISE SPRAY**

■ Water-Base Formulation

**AUTHORIZED BY U.S.D.A. FOR USE IN THE INEDIBLE PRODUCT AREAS  
OF OFFICIAL ESTABLISHMENTS OPERATING UNDER THE  
FEDERAL MEAT, POULTRY, SHELEGG GRADING,  
AND EGG PRODUCTS INSPECTION PROGRAMS**

A long lasting livestock and premise spray that provides knockdown, broad spectrum insecticidal effectiveness, and excellent residual activity for up to 28 days.

Kills Lessor Meal Worms (Darkling Beetle), Poultry Lice, Fowl Mites, Bed Bugs, Horn Flies, House Flies, Fleas, Ticks, and numerous other insects as listed on enclosed insert.

For use outdoors and in homes and non-food areas of poultry houses, dairies, cattle barns, milking parlors, horse barns, swine houses, commercial buildings, institutions, warehouses, theatres, office buildings, schools, motels, hotels, restaurants, food/feed processing establishments, hospitals, and kennels.

**Recommended for Agricultural/Commercial Use**

**ACTIVE INGREDIENT:**

Permethrin\* ..... 10.0%

**INERT INGREDIENTS:**..... 90.0%

**Total:** ..... 100.0%

\* [3-(Phenoxyphenyl) methyl (±) cis-trans-3-(2,2-dichloroethenyl)  
-2,2-dimethylcyclopropanecarboxylate]

Cis-trans ratio:       Max. 65% (±) trans and  
                              Min. 35% (±) cis.

**Contains 0.75 lbs. of Permethrin per gallon**

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

See Side/Back Panel for Additional Precautionary Statements  
NET CONTENTS: 32 OUNCES

**MANUFACTURED BY:**

Unicorn Laboratories  
13535 Feather Sound Drive, Suite 400  
Clearwater, Florida 34622-5587

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

REC'D EPA/OPP/DPD1  
96 SEP 26 P12:00

APR 21 1997

EPA EST. NO. 62478-FL-1A,  
44616-MO-1B  
Subscript used is first letter  
of run code on container.

**PRECAUTIONARY STATEMENTS**

**Hazards to Humans and Domestic Animals**

**CAUTION:** Harmful if swallowed or absorbed through the skin. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Remove and wash clothing before reuse. Avoid contamination of food and feed. Full-faced gas mask with canister is recommended for general protection when applying indoors as a space spray or fogger.

**Environmental Hazards**

This pesticide is extremely toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in treated areas. Do not contaminate water when disposing of equipment washwater/dip solution. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds while bees are actively visiting the treatment area.

**Physical Hazards**

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

**Statement of Practical Treatment**

**IF SWALLOWED:** Contact a physician or Poison Control Center immediately. Drink one or two glasses of water and induce vomiting by touching back of the throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

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

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

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

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE AND SPILL PROCEDURES:** Store upright at room temperature. Avoid exposure to extreme temperatures. In case of spill or leakage, soak up with an absorbent material such as sand, sawdust, earth, fuller's earth, etc.

**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:** For Containers 1 gallon and over: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, by other procedures approved by state and local authorities. For Containers under 1 gallon:

EPA EST. NO. 62478-FL-1A,  
44616-MO-1B

Subscript used is first letter  
of run code on container.

679

Do not reuse container. Wrap container in several layers of newspaper and discard in trash.

### DIRECTIONS FOR USE

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

Keep container sealed when not in use. Protect from freezing. Shake or stir product thoroughly before using or reusing diluted emulsion.

To prepare dilutions, the concentrate should first be stirred or agitated well. Add the required amount of concentrate to water and blend thoroughly. Do not hold dilutions for more than 24 hours.

For maximum effectiveness, a combination of localized application and space treatment is recommended. Remove pets, birds and cover fish aquariums before spraying.

For initial clean up of severe insect infestation, dilute at a rate of (1) part concentrate in 19 parts water (6.7 fluid ounces per gallon) (0.5%).

For normal infestations dilute (1) part concentrate in 100 parts water (1.33 ounces per gallon) (8 teaspoonsful per gallon) (0.1%).

INDOOR USE AREAS: Do not use in food/feed area of food/feed handling establishments, restaurants or other areas where food/feed 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 food 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 should be covered during treatment or thoroughly washed before use. Exposed food/feed should be covered or removed.

NON FOOD/FEED AREAS: Include (but 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, BEVERAGE PLANTS, CANNERIES, FLOUR MILLS, FOOD PROCESSING PLANTS, GRAIN ELEVATORS, GRANARIES, HOSPITALS (non-occupied areas), HOTELS, MOTELS, INDUSTRIAL INSTALLATIONS, KENNELS, MEAT PACKING PLANTS, HOMES, OFFICE BUILDINGS, RAILROAD CARS, RESTAURANTS, SCHOOLS, SHIPS' HOLDS, SUPERMARKETS, TRUCK TRAILER, WAREHOUSES.

Do not apply to classrooms when in use. Do not apply this product in occupied patient rooms or in any rooms while occupied by the elderly or infirm.

Use in USDA Establishments: Acceptable as a residual pesticide for use in the inedible product areas of official establishments operating under the Federal meat, poultry, shell egg grading, and egg products inspection programs. This product must be used in a manner that precludes entry into edible product areas through open windows, ventilating systems, etc.

AS A SURFACE SPRAY TO CONTROL: Cockroaches, Waterbugs, Palmetto Bugs, Ants, Silverfish, Beetles, Mites, Weevils. Use a good sprayer and adjust 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, spray floors, walls and other surfaces applying at a rate of (1) gallon to 750 square feet of surface.

TO CONTROL: Fleas and Ticks (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 localized areas of floor and floor covering. Fresh bedding should be placed in animal quarters following treatment. Apply with mechanical or compressed air equipment (non-thermal) adjusted to deliver a fine mist. Close doors and windows and shut off ventilating systems. For rapid control of house flies, fruit flies, gnats, mosquitoes, skipper flies, wasps, hornets, bees, black flies, angoumois grain moths and tobacco moths, direct spray at an upward angle distributing it uniformly through the entire areas at a rate of (1) ounces per 1000 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 the above dilutions at a rate of (1) ounce per 1000 cubic feet of space.

**OUTDOOR USE AREAS**

CORRALS, FEED LOTS, GARDENS, PARKS, HOMES, DRIVE-IN THEATRES, DRIVE-IN RESTAURANTS, GOLF COURSES, PLAYGROUNDS, RECREATIONAL AREAS, SWINE LOTS, URBAN AREAS, ZOOS.

**FOR TEMPORARY REDUCTION OF ANNOYANCE FLIES, GNATS, MOSQUITOES**  
In drive-in restaurants, drive-in theatres, golf course, urban areas, parks, playgrounds and other recreational areas. Dilute (1) part concentrate in 40 parts water (3.2 fluid ounces per gallon of water) (0.25%). Direct the spray into tall grass, shrubbery and around lawns, where these pests may hover or rest.

Apply while the air is still and avoid wetting foliage. Application should be made prior to occupancy. Repeat as necessary.

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.

**ANIMALS AND ANIMAL PREMISE USE**

**CATTLE BARNS, SWINE HOUSES, MILK ROOMS, KENNELS, POULTRY HOUSES, HORSE BARNS, DAIRIES, MILKING PARLORS, FEED LOTS, STABLES, PADDOCKS.**

For initial clean up of severe insect infestation, dilute at a rate of (1) part concentrate in 19 parts water (6.7 ounces per gallon) (0.5%). For normal infestations dilute (1) part concentrate in 100 parts water (1.33 ounces per gallon) (8 teaspoonsful per gallon) (0.1%)

EPA EST. NO. 62478-FL-1A,  
44616-MO-1B  
Subscript used is first letter  
of run code on container.

### REFERENCE CHART

PESTS	DILUTIONS (Mix Well)	HOW TO APPLY
<b>PESTS ON FARM PREMISES</b> (Barns, Dairies, Loafing Sheds, Milking Parlors, Feedlots, Stables, Paddocks, Poultry and Livestock Housing)		
Horseflies, Stableflies, Houseflies and other manure breeding flies, Fleas, Lice, Mites, Ticks, including Deer tick (carrier of Lyme disease). Aids in control of Cockroaches, Mosquitoes and Spiders.	Dilute 8 oz. in 6.25 gal. water Dilute 1 pt. in 12½ gal. water Dilute 1 qt. in 25 gal. water	Spray walls and surfaces to the point lesser of run-off, about 1 gallon per 750-1000 sq. ft. Treat no more often than once every 2 weeks. Do not contaminate animal's feed or water by spray. Do not use in milk rooms.
<b>PESTS ON DOG PREMISES (Kennels, Dog Houses, Runs and Yards)</b>		
Fleas, Flies, Ticks, Lice )ange Mites (adult and larvae)	Dilute 8 oz. in 6.25 gal. water Dilute 1 pt. in 12½ gal. water Dilute 1 qt. in 25 gal. water	Thoroughly wet pest breeding or rest ing-and areas to run off. Most efficient pest control is accomplished when heavy pressure and good contact is achieved. Timing and frequency of applications should be based on pest populations reaching nuisance levels, but accompanying manure removal and sanitation practices should precede sprays. Do not spray feed, food or water. Repeat as needed but not more often than once every two weeks.
<b>PESTS IN CATTLE BARN, HORSE BARN, SWINE HOUSES, KENNELS, MILKING PARLORS, MILK ROOMS, DAIRIES, POULTRY HOUSES, FEEDLOTS STABLES AND PADDOCKS</b>		
Flies, Mosquitoes and Gnats	Dilute 8 oz. in 6.25 gal. water Dilute 1 pt. in 12½ gal. water Dilute 1 qt. in 25 gal. water	FOG OR FINE MIST: Apply, directing the spray toward the ceiling and upper corners until the area is filled with mist. Use about 2 ounces per 1000 cubic feet of space. For best results, close doors and windows before spraying and keep closed for ten to fifteen minutes. Vacate the treated area and ventilate before reoccupying. Repeat treatment as necessary.
<b>PESTS ON LARGE ANIMALS (Dairy or Beef Cattle, Horses, Sheep and Goats)</b>		
Faceflies, Hornflies, Horseflies, Ear Ticks	Dilute 8 oz. in 5 gal. oil Dilute 1 pt. in 10 gal. oil Dilute 1 qt. in 20 gal. oil	BACK RUBBER: Recharge backrubber as needed. Spray lactating dairy cows only after milking is completed.
Faceflies, Hornflies, Stableflies, Mosquitoes, Lice, Mites, Ticks, including Deer tick (carrier of Lyme disease)	Dilute 8 oz. in 50 gal. water Dilute 1 pt. in 100 gal. water Dilute 1 qt. in 200 gal. water	Spray to thoroughly cover entire animal. For Lice or Mites, a second treatment is recommended 14-21 days later. Spray lactating dairy cows only after milking is completed.
Hornflies, Faceflies, Stableflies, Ear Ticks	Dilute 2 oz. in 1 gal. water Dilute 1 pt. in 2½ gal. water	SPOT TREATMENT - LOW PRESSURE SPRAY - Apply 1/2 oz. per ear or 2-4 oz. on face



9.7.9

or 12-16 oz. along the backline.

**PESTS ON SWINE AND POULTRY (Do not ship swine for slaughter within 5 days of last treatment)**

Mange Mites	Dilute 8 oz. in 25 gal. water Dilute 1 pt. in 50 gal. water Dilute 1 qt. in 100 gal. water	Spray, dip or sponge animals. Retreat after 14 days, spraying walls and floor space and bedding to kill late hatching, Developing stages.
-------------	--	---

Blowflies, Flies, Mosquitoes, Hog Lice, Fleas, Ticks, including Deer tick (carrier of Lyme disease)	Dilute 8 oz. in 25 gal. water Dilute 1 pt. in 50 gal. water Dilute 1 qt. in 100 gal. water	Spray, dip or sponge to apply 1 pint per pig, especially around ears.
---	--	---

Poultry Mites, Northern Fowl	Dilute 8 oz. in 12½ gal. water Dilute 1 pt. in 25 gal. water Dilute 1 qt. in 50 gal. water	Spray at the rate of 1/2 oz per bird, Mites and Lice or 1 gal. per 100 birds, with a fine mist. Spray roosts, walls and nests or cages.
------------------------------	--	---

**PESTS ON DOGS (DO NOT TREAT PUPPIES LESS THAN FOUR WEEKS OLD)**

Fleas, Ticks, including Deer tick Lice and Mange (carrier of Lyme disease),	Dilute 8 oz. in 12½ gal. water Dilute 1 pt. in 25 gal. water Dilute 1 qt. in 50 gal. water	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 and applications at intervals of two to three weeks. Repeat applications as necessary.
---	--	---

**HOSE-END SPRAYER:** To control listed insects, shake well before applying. Connect nozzle to hose; remove bottle cap, insert diptube and screw bottle onto nozzle. Turn on water at the tap. When ready to treat, place finger over the hole on right side of nozzle and the liquid will mix automatically at the proper ratio. Apply to surfaces in dairies, barns, feed lots, stables, poultry houses, swine and livestock housing: to control House Flies, Stable Flies and other manure breeding flies. Also aids in control of Cockroaches, Ants, Spiders, Mosquitoes, Crickets and Face Flies. Walk and spray at a steady pace. Spray walls and surfaces to the point of run-off. Treat no more often than once every two weeks. Do not contaminate animals feed or water by spray.

EPA EST. NO. 62478-FL-1A,  
44616-MO-1B

...Subscript used is first letter  
...of run code on container.