

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Mr. Barry J. Santerre
Unicorn Laboratories
13535 Feather Sound Drive
Suite 400
Clearwater, FL 34622-5587

Dear Mr. Santerre:

Subject: Amendment- add Repellent to front panel
Unicorn Permethrin Spray
EPA File Symbol 28293-128
Your submission dated June 2, 1995

This amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(7)(a), is acceptable, provided that you:

1. Submit and/or cite all data or other material required for registration/reregistration of your product under FIFRA section 3(c)(5) or FIFRA section 4 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. The addition of the word repellent is acceptable however it entails data thus you must submit to the Agency the appropriate Offer To Pay form and formulators exemption statement.

3. Submit three (3) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of final printed labeling.

SYMBOL								
SURNAME								
DATE								

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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.

Sincerely,

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

Enclosure

BEST COPY AVAILABLE

3 7 8

UNICORN

ACCEPTED
with COMMENTS
in EPA Letter Dated

PERMETHRIN SPRAY

DEC 15 1995

EMULSIFIABLE CONCENTRATE/REPELLENT

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the
registered under FIFRA

LIVESTOCK AND PREMISE SPRAY

AUTHORIZED BY U.S.D.A. FOR USE IN THE INEDIBLE 28293-128
PRODUCT AREAS OF OFFICIAL ESTABLISHMENTS
OPERATING UNDER THE FEDERAL MEAT, POULTRY, SHELL
EGG 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%
100.0%

* [3-(Phenoxyphenyl) methyl (+) cis-trans-3-(2,2-dichloroethyl)
-2,2-dimethylcyclopropanecarboxylate]

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

** Contains Petroleum Distillate

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

EPA REG. NO. 28293-128
(E:12/7/92)

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

Subscript used is first letter
of run code on container.

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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 or store near heat or open flame. 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.

Note to Physician: This product contains petroleum solvents. Vomiting may cause aspiration pneumonia.

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: 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%)

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REFERENCE CHART

PESTS	DILUTIONS (Mix Well)	HOW TO APPLY
PESTS ON FARM PREMISES (Barns, Dairies, Loafing Sheds, Milking Parlors, Feedlots, Stables, Paddocks, Poultry and Livestock Housing)		
Horseflies, Stableflies, lesser 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 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.
PESTS ON DOG PREMISES (Kennels, Dog Houses, Runs and Yards)		
Fleas, Flies, Ticks, Lice and Mange 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 resting 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.
PESTS IN CATTLE BARNS, HORSE BARNS, SWINE HOUSES, KENNELS, MILKING PARLORS, MILK ROOMS, DAIRIES, POULTRY HOUSES, FEEDLOTS STABLES AND PADDOCKS		
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.
PESTS ON LARGE ANIMALS (Dairy or Beef Cattle, Horses, Sheep and Goats)		
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 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	Spray, dip or sponge animals. Retreat after 14 days, spraying walls and floor space and bedding to kill late hatching, developing stages.
	Dilute 1 pt. in 50 gal. water	
	Dilute 1 qt. in 100 gal. water	
Blowflies, Flies, Mosquitoes, Hog Lice, Fleas, Ticks, including Deer tick (carrier of Lyme disease)	Dilute 8 oz. in 25 gal. water	Spray, dip or sponge to apply 1 pint per pig, especially around ears.
	Dilute 1 pt. in 50 gal. water	
	Dilute 1 qt. in 100 gal. water	
Poultry Mites, Northern Fowl Mites and Lice	Dilute 8 oz. in 12 1/2 gal. water	Spray at the rate of 1/2 oz per bird, or 1 gal. per 100 birds, with a fine mist. Spray roosts, walls and nests or cages.
	Dilute 1 pt. in 25 gal. water	
	Dilute 1 qt. in 50 gal. water	

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

Fleas, Ticks, including Deer tick (carrier of Lyme disease), Lice and Mange	Dilute 8 oz. in 12 1/2 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.
	Dilute 1 pt. in 25 gal. water	
	Dilute 1 qt. in 50 gal. water	

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, Siders, 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.