



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

EPA Reg. Number:

28293-354

Date of Issuance:

MAR - 1 2002

NOTICE OF PESTICIDE:
 x Registration
 Reregistration

Term of Issuance:
Conditional

Name of Pesticide Product:
Unicorn 40% Permethrin E.C.

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Unicorn Laboratories
12385 Automobile Blvd.
Clearwater, FL 33762

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 phase "EPA Registration No. 28293-354".
 - b. On the front panel change "For aid in control of Small Hive Beetles in Honey Bee Hives" to "For aid in control of the small hive beetle, *Aethina tumida* around honey bee colonies."
 - c. On the front panel add a reference statement "See side/back panel for Additional Precautionary Statements".

Signature of Approving Official:

Date:

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d. Under Horses/Dogs move the, "Not recommended for use on puppies xxx" statement to the paragraph with the asterisk.

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

UNICORN 40% PERMETHRIN E.C.

- For Agricultural/Commercial, Vector Control Agency, Pest Control Operator Use Only.
- For control of Flies, Lice, Mites, and Ticks on livestock and their premises.
- Can be used on Lactating and Non-Lactating Cattle and Goats, Beef Cattle, Sheep, Swine, Poultry and Horses.
- Directions for Flea and Tick control on Dogs as spray dip wash or dip tank.
- Can be used in all areas of Dairy barns, including Milk Room.
- For control of Fire Ants.
- For aid in control of Small Hive Beetles in Honey Bee Hives.

ACTIVE INGREDIENT:

Permethrin*	40.00%
INERT INGREDIENTS**:	60.00%
Total:	100.00%

*cis/trans ratio: Min. 35% (±) cis and Max. 65% (±) trans.
 **Contains Petroleum Distillate

**KEEP OUT OF REACH OF CHILDREN
DANGER**

Manufactured by:
Unicorn Laboratories
12385 Automobile Blvd.
Clearwater, FL 33762

PRECAUTIONARY STATEMENTS

Hazards to Humans & Domestic Animals

DANGER: Corrosive. Causes irreversible eye damage. Do not get in eyes or on clothing. Wear goggles, face shield or safety glasses. Harmful if swallowed. Avoid contact with skin. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. Certain medications can interact with pesticides. Consult a veterinarian before using on medicated animals. Do not use this or any other pesticide on sick, old or debilitated animals.

Environmental Hazards

This product is extremely toxic to fish and other aquatic organisms. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the 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 washwaters. This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

Physical or Chemical Hazards

Do not use or store near heat or open flame.

ACCEPTED
with COMMENTS
in EPA Letter Dated

MAR - 1 2002

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the product
registered under EPA Reg. No.

28293-354

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

FIRST AID	
IF SWALLOWED	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person.
IF INHALED	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
NOTE TO PHYSICIAN	
This product contains a pyrethroid and a petroleum solvent. The possibility of aspiration pneumonia must be considered. The product can cause severe eye damage; ophthalmology consultation recommended. Mucosal damage may contraindicate the use of gastric lavage.	

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. Dispose of with chemical waste.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal:

CONTAINERS 1 GALLON OR SMALLER:

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

CONTAINERS LARGER THAN 1 GALLON:

Metal Containers: Triple rinse or equivalent. Then offer for recycling or reconditioning, or puncture and dispose in a sanitary landfill, or by other procedures approved by State and local authorities.

Plastic Containers: Triple rinse or equivalent. Then offer for recycling or reconditioning and dispose in a sanitary landfill, or by incineration, or if allowed by State and local authorities by burning. If burned, stay out of smoke.

DIRECTIONS FOR USE

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

READ ENTIRE LABEL BEFORE EACH USE

Measurement conversions: 1 fl.oz. = 2 Tablespoons (T) = 6 teaspoons (tsp)

Do not use utensils such as spoons and measuring cups for food purposes after use with pesticides.

TARGET SPECIES	USE	DILUTE (NUMBER TREATED)	APPLICATION RATE
LACTATING AND NON-LACTATING DAIRY CATTLE AND GOATS, BEEF CATTLE AND SHEEP			
Horn flies, Face flies, Stable flies, House flies, Horse flies, Deer flies, Black flies, Mosquitoes, Eye gnats, Mange mites, Scabies mites, Ticks, Lice, Sheep keds (Use higher concentrations for longer residual control.)	High pressure Spray	1 to 4 fl.oz. (30-120 ml) to 25 gals water (treats 50 to 100)	1-2 qt. of coarse spray per animal over whole body surface, for Mange, Scabies, Ticks and Lice thoroughly wet animal. Repeat application 10 - 14 days for Mites and Lice.
Horn flies, Face flies, Stable flies, Ear ticks, Lice and Sheep keds (2-3 weeks residual control of horn flies)	Low pressure spray (Hand pump Sprayer)	4 fl.oz. (120 ml) to 2 ½ gals water (treats 64-80 cattle) (treats 213 sheep or goats)	For fly, lice, and sheep ked control, spray midline from face to tailhead until wet but do not let runoff occur, approx. 4-5 fl. oz. (120-150ml) for cattle and 1.5 fl. oz. (45ml) for sheep or goats. For ear tick control spray directly into each ear (1/2 fl. oz (15ml) each).
Horn flies, Face flies, Stable flies (Season long control of horn flies)	Backrubber, Self Oiler	4 fl.oz. (120 ml) to 10 gals diesel oil or suitable mineral oil.	Keep rubbing device charged. Results improved by daily forced use.
POULTRY			
Northern fowl mites, Lice	High pressure spray	2 ½ teaspoons to 5 Tablespoons (12.5 -75ml) to 2.5 gals water (treats 250)	1 gal of coarse spray per 100 birds, paying particular attention to vent area.
SWINE (Allow 5 days between last treatment and slaughter)			
Lice, Mange	Sprayer or Dip	2 to 4 fl.oz. (60-120 ml) to 25 gals water (treats 50-100)	Thoroughly wet or dip animals including ears. For Mange, spray pen floors, sides and bedding. Repeat at 14 days.

TARGET SPECIES	USE	DILUTE (NUMBER TREATED)	APPLICATION RATE
HORSES & DOGS* (DO NOT USE ON CATS)			
Horn flies, Face flies, Stable flies, House flies, Horse flies, Black flies, Mosquitoes, Eye gnats, Mange mites, Scabies mites, Ticks, Lice, Fleas	Low Pressure Spray (Horses only)	1 ½ teaspoons (7.5ml) to 1 pt. water	1-2 fl. oz (30-60ml) spray per animal. Spot treat back, face, legs, tail and ears of horse.
	Dip Wash	1 to 2 ½ teaspoons (5-12.5 ml) to 2.0 gals water	Thoroughly wet animal to skin with sponge or rag. Let drip dry. Do not treat animal's face.
	Dip (Dogs only)	4 fl.oz. (120 ml) to 20 gals water	Make sure all areas are soaked to skin. Let drip dry on animal. Do not rinse off. Not recommended for use on puppies less than twelve weeks old.

* Consult a veterinarian before using this product on medicated, 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.

TARGET SPECIES	USE	DILUTE	APPLICATION RATE
PREMISES – IN AND AROUND HORSE, BEEF, DAIRY, SWINE, SHEEP AND POULTRY PREMISES, ANIMAL HOSPITAL PENS AND KENNELS AND OUTSIDE MEAT PROCESSING PREMISES**			
House flies, Stable flies, Little house flies (Fannia Spp). Aids in control of Cockroaches, Ants, Spiders, Mosquitoes and Crickets.	Surface Spray	3 to 4 fl.oz. (90-120 ml) to 10 gals water	Apply until surface is wet but do not let runoff occur (1 gal per 750- 1000 sq. ft.). (Do Not Use in Milk Rooms)
	Space Spray	2 teaspoons to 3 Tablespoons (10-45 ml) to 1 gal. water	Apply as fog or fine mist until area is filled with mist, using 2 fl. oz. (60ml) per 1000 cubic ft. (Can be used in Milk Rooms)
	Overhead space spray system	4 fl.oz. (120 ml) to 10 gals mineral oil	4 fl. oz. (120ml) spray per 1000 cu. ft. of air space. (Do Not Use in Milk Rooms)
Temporary reduction of annoyance from pests mentioned above.	Outdoor space spray	3 Tablespoons (45ml) to 1 gal. Water	Fill area with mist. Apply while the air is still and avoid wetting foliage.
Bed bugs and Chicken Mites	Sprayer	4 fl.oz. (120 ml) to 10 gals. For severe infestation it is permissible to use 4 fl.oz. (120 ml) to 4 gals.	Spray crevices of roost poles, cracks in walls and cracks in nest and nest boxes.

TARGET SPECIES	USE	DILUTE	APPLICATION RATE
PREMISES – IN AND AROUND HORSE, BEEF, DAIRY, SWINE, SHEEP AND POULTRY PREMISES, ANIMAL HOSPITAL PENS AND KENNELS AND OUTSIDE MEAT PROCESSING PREMISES** (contd.)			
Ticks, including the Deer tick, Fleas	Indoor spray	3 fl.oz. (90 ml) to 2 gals water	Treat around windows, doors, porches, screens, eaves, patios, garages, under stairways and in crawl spaces where these pests may occur. Apply until surface is wet but do not let runoff occur (approx. 1 gal per 750 – 1000 sq. ft.).
	Outdoor spray	4 fl.oz (120 ml) to 100 gals water. For longer residual use up to 4 fl.oz. (120 ml) to 50 gals water.	Use enough finished spray to penetrate foliage, usually 50–100 gals per acre. To prevent infestation of buildings, treat a band of vegetation 6–10 feet adjacent to the structure.
Imported Fire ants	Sprinkler can	1 to 2 teaspoons (5-10 ml) to 1 gal. water	Gently sprinkle 1 gal. Over the surface of each mound. Thoroughly wet mound and surrounding area to a 4 ft. diameter. For best results, apply in cool weather 65-80°F (early morning or late evening). Pressurized sprayers may disturb ants and cause migration reducing product effectiveness.
<p>For Aid in Control of the Small hive beetle, <i>Aethina tumida</i></p> <p>Note: Permethrin is highly toxic to bees and extreme caution must be taken to avoid contact by spray or spray drift with bees, hive or any other surfaces that bees may contact. Do not contaminate any water or food source that may be in the area or apply during windy conditions. For better soil penetration and improved efficacy, cut grass around hive prior to application.</p>	Sprinkler can, hand pump sprayer or other low pressure sprayer	1 teaspoon (5 ml) to 1 gal. Water	For treatment of existing infestations, apply as soon as beetles or larvae are observed in or around the hive. Thoroughly wet ground in an area 18-24 inches wide in front of each hive (1 gal. per 6 hives). Apply by sprinkler can in late evening after bees become inactive. When hives are present, application may only be made with a sprinkler can. Hand pump sprayers may only be used when hives are <u>not</u> present and only for pre-placement cleanup of apiary. For pre-placement cleanup of apiary, apply to entire ground surface 24-48 hrs. prior to hive placement.

**** Do not apply dilutions for premise treatment directly on livestock or poultry. Ensure that feed and water are not contaminated by spray drift. For space spraying, do not remain in treated areas, and upon reentry, open windows and ventilate for at least 2 hours. Animals should be removed from area prior to treatment. The use of any residual fly spray should be supplemented with proper manure management and general sanitation to reduce or eliminate fly breeding sites.**

Buyer assumes all risks of use, storage or handling of this product not in strict accordance with directions given herewith.