



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

August 7, 2017

James McFadden, Ph.D.
Phaeton Corporation D/B/A Unicorn Laboratories
1501 W. Woodfield Road, Suite 200W
Schaumburg, IL 60173

Subject: Amended Reregistration Label
Product Name: UNICORN PERMETHRIN SPRAY
EPA Registration Number: 28293-128
Decision Number: 413722

Dear Dr. McFadden:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the reregistration of the above referenced product in connection with the Permethrin RED, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

NOTE: This product is **not** yet being reregistered under section 4(g) of FIFRA.

Please note that the record for this product currently contains the Confidential Statement of Formulation (CSF) listed below. Any previously dated CSFs are superseded.

- Basic CSF, dated 05/24/2012

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

A copy of your label stamped "Accepted" is enclosed. Products shipped after 12 months from the date of this amendment or the next printing of the label, whichever occurs first, must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

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EPA Reg. No. 28293-128
Decision No. 413722

If you have any questions about this letter, please contact Maggie Rudick by phone at 703-347-0257, or via email at rudick.maggie@epa.gov.

A handwritten signature in blue ink, appearing to read "MW", is enclosed in a thin black rectangular border.

Michael Wagman, Acting Product Manager 4
Invertebrate and Vertebrate Branch 1
Registration Division (7505P)
Office of Pesticide Programs

Enclosure

ACCEPTED

08/07/2017

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 28293-128

[MASTER LABEL: Version A - Occupational Use]

**UNICORN PERMETHRIN SPRAY
EMULSIFIABLE CONCENTRATE/REPELLENT**

Optional Marketing Statements:

LIVESTOCK AND PREMISE SPRAY

A long lasting livestock and premise spray that provides knockdown, broad spectrum insecticidal effectiveness, and excellent residual Activity for up to 28 days [4 weeks].

Makes up To 24 gallons (1 qt)/48 gallons (1/2 gal.)!

Protects horses and ponies from attacks of Horse Flies,. Stable Flies, Face Flies, Deer Flies, Houseflies, Horn Flies, Mosquitoes and Gnats.

For use on dairy and beef cattle, sheep, goats, swine, horses, poultry and their premises.

Kills Gypsy Moth Caterpillars, Japanese Beetles, Roaches, Ants, Fleas, Ticks, Lice, Bed Bugs, Horn Flies, Houseflies, Mealworms, Darkling Beetles, Poultry Lice; Fowl Mites and numerous other listed insects

Kills home invading insects

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, theaters, office buildings, schools, motels, hotels, restaurants, food/feed processing establishments, hospitals, and kennels.

Not for Forestry Use or Commercial Dairy Use.

Not for use on plants being grown for sale or other commercial use, or for commercial seed production or for research purposes.

For "Single Shot packaging; Single Shot: 1.33 oz (39.3 mL) Makes one (1) gallon. No Measuring. No Mess.

ACTIVE INGREDIENT:

Permethrin* 10.0%

OTHER INGREDIENTS** 90.0%

Total: 100.0%

*Cis-trans isomers ratio: max. 65% (±) trans and min. 35% (±) cis

**Contains Petroleum Distillate.

Contains 0.75 lb. of Permethrin per gallon

KEEP OUT OF REACH OF CHILDREN

CAUTION

See Side/Back/Other Panel(s) for Additional Precautionary Statements and First Aid

NET CONTENTS: _____

EPA Reg. No. 28293-128

EPA Est. No. _____

FIRST AID

If Swallowed	<ul style="list-style-type: none"> • Call poison control center or doctor immediately for treatment advice. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person.
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. • 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. You may also contact [xxx-xxx-xxxx] [The National Pesticide Information Center at 1-800-858-7378] for emergency medical information.	
NOTE TO PHYSICIAN: Contains petroleum distillate - vomiting may cause aspiration pneumonia	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. · Avoid contact with skin, eyes, or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators using ULV cold foggers or fog/mist generators in indoor space must wear:

Coveralls over long-sleeved shirt and long pants;

Chemical-resistant gloves made of barrier laminate, nitrile rubber, neoprene or viton; ·

Chemical-resistant footwear plus socks; and ·

Chemical-resistant headgear, if overhead exposure.

Applicators using ULV code foggers and/or fog/mist generators in outdoor spaces must wear: Long-sleeve shirt and long pants;

Shoes plus socks; and

Chemical-resistant gloves.

All other mixes, loaders, applicators and other handlers must wear:

Long-sleeve shirt and long pants;

Shoes plus socks ··

Chemical-resistant gloves; and

Chemical-resistant apron for mixers, loaders, persons cleaning equipment and persons exposed to the concentrate and for handlers performing animal dip applications.

USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing/PPB immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched (except as required by directions for use) or heavily contaminated with this product's concentrate. Do not reuse them.

Environmental Hazards

This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

This pesticide 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 foraging the treatment area.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Physical or Chemical Hazards

Combustible. Do not use or store near heat or open flame. Do not apply this product around electrical equipment due to the possibility of shock hazard.

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.

Use Restrictions

Except when applying to dogs or livestock, do not enter or allow others to enter treated area until sprays have dried, and vapors, mists, and aerosols have dispersed, and the treated area has been thoroughly ventilated. For 4 hours following applications, do not allow any person to reenter treated areas. Except when applying to dogs or livestock, do not apply this product in a way that will contact workers or other persons, either directly or through drift. Except when applying to dogs or livestock, only protected handlers may be in the area during application. Remove pets and birds and cover fish aquariums before spraying. Do not breathe vapors or spray mist. Do not apply when food

is present. 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 food is 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 should be covered or removed. When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking. Not for broadcast use on indoor surfaces. Use in a handheld cold or thermal fogger is prohibited.

All outdoor applications must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses:

- 1) Treatment to soil or vegetation around structures;
- 2) Application to lawns, turf, and other vegetation;
- 3) Applications to building foundations, up to a maximum height of 3 feet.
- 4) Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by covering, overhang, awning, or
- 5) Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width
- 6) Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch, or other vegetation, as listed on this label, and not over an impervious surface, drainage, or other condition, that could result in runoff into storm drains, drainage, ditches, gutters, or surface waters, in order to control occasional invaders or aggregating pests.

Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors, and eaves) are limited to spot and crack-and crevice applications only.

Do not water the treated area to the point of runoff. Do not make applications during rain.

Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow this product to enter any drain during or after application. Not for use in outdoor residential misting systems.

FOR PET USE: USE ONLY ON DOGS, HORSES AND PONIES

(Products which have pet uses must include the following cat warning text. This cat warning text must be placed within a shaded box in the Precautionary Statements of the label. The coloring of the box and text will be such to provide a contrasting color to other label text. The shaded box must contain the following:

“DO NOT USE ON CATS. May be toxic or potentially fatal if applied to or ingested by cats. Accidental application to cats and/or grooming a recently treated dog may result in tremors and/or uncoordinated muscle movements. If this occurs, immediate veterinary care should be provided.”

-Include the following statement prominently on the front panel of product packaging (in bold),

“DO NOT USE ON CATS”

-Each label must include at least one cat slash icon. This icon may be in the shaded box or in other areas on the label.

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NOT FOR USE IN FEDERALLY INSPECTED, MEAT AND POULTRY PLANTS

DILUTION RATES: The number following the dilution directions on this label refers to the ready- to-use Permethrin percentage. To prepare dilutions, add the required amount of concentrate to water and blend thoroughly. Dilution rates on this label will yield the following ready-to-use product:			
Dilution Ratio	Amount of Concentrate per Gallon of Water		Permethrin %
	Fluid Ounce	or Teaspoon	
1:19	6.4		0.50%
1:40	3.2		0.25%
1:100	1.28	8	0.10%
1:200	0.64	4	0.05%
1:400	0.32	2	0.025%

For maximum effectiveness, a combination of localized application and space treatment is recommended.

INDOOR USE

For use in non-food/feed areas including (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, HOTELS, MOTELS, INDUSTRIAL INSTALLATIONS, KENNELS, MEAT PACKING PLANTS, HOMES, OFFICE BUILDINGS, RAILROAD CARS, RESTAURANTS, SCHOOLS, SHIPS' HOLDS, SUPERMARKETS, TRUCK TRAILERS and WAREHOUSES

Rate:

Initial clean-up of severe insect infestation: 6.4 fl. oz./gal. water (050% permethrin; dilution ratio 1 :19)
 Normal infestations: 1.28 fl. oz./gal. water (0.1% permethrin; dilution ratio 1:100)
 Maintenance use: 0.64 fl. oz./gal. water (0.05% permethrin; dilution ratio 1:200)

As a surface spray to control *Cockroaches, Waterbugs, Palmetto Bugs, Ants, Silverfish, Firebrats, Spiders, Crickets, Millipedes, Centipedes, Sowbugs, Pillbugs, Clover Mites, Cheese Mites, Granary Weevils, Rice Weevils, Confused Flour Beetles, Rust Red Flour Beetles, Saw-toothed Grain Beetles, Spider Beetles, Cigarette Beetles, Drugstore Beetles, Darkling Beetles, Mealworms, Grain Mites and Cadelles.* Adjust sprayer to deliver a coarse wet spray. Direct the spray into hiding places, crack 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 Carpet Beetles: Spray edges of carpeting and under carpeting and rugs. Make localized application to floor and baseboards. Spray directly into cracks and closets and onto infested areas of shelving.

To control Bed Bugs: Spray mattresses lightly, particularly around tufts and seams. Take bed frames apart and spray in all joints. Treat baseboards, moldings and floors. Allow all treated articles to thoroughly dry before use.

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.

As a space spray: For rapid control of *House Flies, Fruit Flies, Gnats, Mosquitoes, Skipper Flies, Wasps, Hornets, Bees, Black Flies, Angouinois Grain Moths and Tobacco Moths.* For rapid kill of other insects named on this label -- Apply with mechanical or compressed air equipment (non-thermal) adjusted to deliver a fine mist. Close doors and windows and shut off ventilating systems. Direct spray at an upward angle, distributing it uniformly through the entire area at a rate of **1** ounce per 1000 cubic feet of space. Keep area closed for at least 10 minutes. Vacate area after treatment and ventilate and sweep up dead insects before reoccupying.

OUTDOOR USE

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

Do not allow spray to drift on pasture land, cropland, poultry ranges or water supplies. Do not use on crops used for food, forage or pasture. Never treat open water with this product. Do not use within 10 feet (3 meters) of lakes and streams. In the treatment of corrals, feedlots, swine lots and zoos, cover any exposed water, drinking fountains and animal feed before application. In zoos, prevent exposure of reptiles to this product.

Flying Insects

To aid in control of *Mosquitoes, Wasps, Gnats and Skippers*

Rate: Initial clean-up of severe insect infestation: 6.4 fl. oz./gal. water (0.50% permethrin; dilution ratio 1:19)

Normal infestations: 1.28 fl. oz./gal. water (0.1% permethrin; dilution ratio 1:100)

Maintenance use: 0.64 fl. oz./gal. water (0.05% permethrin; dilution ratio 1:200)

Treat walls, ceilings, moldings, screens, door frames, window frames, beams, light cords and similar resting places.

For temporary reduction of annoyance *Flies, Gnats and Mosquitoes*

NOT FOR USE AS A WIDE-AREA MOSQUITO ADULTICIDE.

Rate: 3.2 fl. oz./gal. water (0.25% permethrin; dilution ratio 1:40)

Direct spray into tall grass and shrubbery and around lawns where these pests may hover or rest. Apply while the air is still and avoid wetting foliage of desirable plants. Apply product before occupancy.

Gypsy Moth Caterpillars and Adults, Adult Japanese Beetles, Eastern & Forest Tent

Caterpillars: Rate: 3.2 fl. oz./gal. water (0.25% permethrin; dilution ratio 1:40)

On Trees, Shrubs, Roses and in Flower Gardens: To kill on contact, apply to ensure thorough coverage of upper and lower leaf surfaces. Treat as soon as insects emerge (usually late spring). Apply to leaves branches, tree trunks, plants and flowers evenly, making sure to penetrate dense foliage. Repeat application every 7 days as necessary for control.

ANIMALS AND ANIMAL PREMISE USE

Kills Stable Flies, Horse Flies, Deer Flies, Face Flies, Houseflies, Horn Flies, Mosquitoes and Gnats

CATTLE BARNS, SWINE HOUSES, MILK ROOMS, KENNELS, POULTRY HOUSES, HORSE BARNS, DAIRIES, MILKING PARLORS

Rate:

Initial clean-up of severe insect infestation: 1.28 fl. oz./gal. water (0.1% permethrin; dilution ratio 1:100)

Normal infestations: 0.64 fl. oz./gal. water (0.05% permethrin; dilution ratio 1:200)

Maintenance use: 0.32 fl. oz./gal. water (0.025% permethrin; dilution ratio 1:400)

To control *Flies, Mosquitoes, Meal Worms, Darkling Beetles and Gnats*: Apply as a fog or fine mist, directing the spray toward ceiling and upper corners until the area is filled with mist. Use 2 fl. oz. dilute spray per 1,000 cu. ft. of space. Close doors and windows before spraying. Vacate the treated area after spraying and keep closed for 10 to 15 minutes. Ventilate before reoccupying.

To control *Fleas, Flies, Ticks, Lice and Mange Mites (adult and larvae) in kennels, doghouses, runs and yards*: Thoroughly spray pest breeding or resting areas until damp. Most efficient pest control is accomplished when heavy pressure and good contact is achieved. Timing and frequency of application 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 2 weeks.

HORSES & PONIES, DAIRY & BEEF CATTLE, SHEEP, GOATS, SWINE, POULTRY

Do not apply as a spray to foals under 3 months of age. Spray lactating dairy cows only after milking is completed. Do not ship treated swine for slaughter within 5 days of last treatment.

Rate:

Initial clean-up of severe insect infestation: 1.28 fl. oz./gal. water (0.1% permethrin; dilution ratio 1:100)

Normal infestations: 0.64 fl. oz./gal. water (0.05% permethrin; dilution ratio 1:200)

Maintenance use: 0.32 fl. oz./gal. water (0.025% permethrin; dilution ratio 1:400)

For Wipe-On: Remove excess dust and dirt. Spray product on clean cloth and wipe animal, being careful to treat back, withers and forelegs. To protect face from flies, apply to face and head, but avoid contact with eyes.

To control *Horn Flies, Houseflies, Mosquitoes and Gnats*: apply to wet the hair thoroughly, paying particular attention to topline, underline, flanks, withers and other infested areas. Repeat treatment in 5 to 12 days for small insect populations, or as needed when flies emerge in large numbers.

To control *Stable Flies, Horse Flies and Deer Flies*: Apply one quart per animal to wet the hair thoroughly, paying particular attention to legs, flanks barrel, topline and other body areas commonly attacked by these flies. Repeat daily as needed.

To control *Face Flies*: Use a sprayer that produces large wetting droplets. Apply to the face of the animal, in the morning before releasing to pasture. Sufficiently wet the animal's face, but do not apply more than 11h ounces dilute product per animal. Repeat daily as needed.

To control *Poultry Lice*: Spray roosts, walls and nests or cages thoroughly - followed by spraying over the birds with a fine mist.

To control *Bedbugs and Mites* (including Northern Fowl Mite) in Poultry Houses: Rate: 1 gallon dilute spray per 100 birds. Spray crevices of roost poles, cracks in walls and cracks in nests where bedbugs and mites hide. Spray birds with a fine mist, paying particular attention to vents

To control *Sheep "Tick" or Ked*: Thoroughly wet all portions of the body by dipping or spraying with sufficient pressure and with a nozzle adjustment to give penetration of the wool.

DOGS & LIVESTOCK

Do not treat puppies less than 12 weeks old. Sensitivity 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. Consult a veterinarian before using this product on debilitated, aged, medicated, pregnant or nursing animals.

Rate:

Initial clean-up of severe insect infestation: 1.28 fl. oz./gal. water (0.1% permethrin; dilution ratio 1:100)

Normal infestations: 0.64 fl. oz./gal. water (0.05% permethrin; dilution ratio 1:200)

Maintenance use: 0.32 fl. oz./gal. water (0.025% permethrin; dilution ratio 1:400)

To control *Fleas, Ticks, Lice and Mange Mites (adults and larvae)*: 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. Repeat applications in 2-3 weeks as needed.

(In Text Box)

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE AND SPILL PROCEDURES (> 1 gallon): 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 STORAGE (<= 1 gallon): Store upright at room temperature. Avoid exposure to extreme temperatures.

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 HANDLING Non-refillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying.

[For Containers less than or equal to 5 gallons: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.]

[For Containers 5 gallons and over: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.]

Phaeton Corporation

P.O. Box 290 Madison, GA 30650

[Lot No. added at production]

[SUB LABEL: Version B - Residential Use]

UNICORN PERMETHRIN SPRAY EMULSIFIABLE CONCENTRATE/REPELLENT

Optional Marketing Statements:

LIVESTOCK AND PREMISE SPRAY

Intended for residential use

A long lasting livestock and premise spray that provides knockdown, broad spectrum insecticidal effectiveness, and excellent residual activity for up to 28 days [4 weeks].

Makes up to. 24 gallons (1 qt)/48 gallons (1/2 gal.)

Protects horses and ponies from attacks of Horse Flies, Stable Flies, Face Flies, Deer Flies, Houseflies, Horn Flies, Mosquitoes and Gnats.

For use on dairy and beef cattle, sheep, goats, swine, horses, poultry and their premises.

Kills Gypsy Moth Caterpillars, Japanese Beetles, Roaches, Ants, Fleas, Ticks, Lice, Bed Bugs, Horn Flies, Houseflies, Mealworms, Darkling Beetles, Poultry Lice, Fowl Mites and numerous other listed insects.

Kills home invading insects.

For use outdoors and in homes, kennels, poultry houses, dairies, cattle barns, milking parlors, horse barns and swine houses.

For "Single Shot packaging: Single Shot: 1.33 oz. (39.3 mL). Makes one (1) gallon. No Measuring. No Mess.

ACTIVE INGREDIENT:

Permethrin* 10.0%

OTHER INGREDIENTS** 90.0%

Total: 100.0%

*Cis-trans isomers ratio: max. 65% (±) trans and min. 35% (±) cis

**Contains Petroleum Distillate

Contains 0.75 lb. of Permethrin per gallon

KEEP OUT OF REACH OF CHILDREN

CAUTION

See Side/Back/Other Panel(s) for Additional Precautionary Statements and First Aid

NET CONTENTS: _____

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FIRST AID	
If Swallowed	<ul style="list-style-type: none"> • Call poison control center or doctor immediately for treatment advice. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person.
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. • Call a poison control center or doctor for treatment advice.
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact [xxx-xxx-xxxx] [The National Pesticide Information Center at 1-800-858-7378] for emergency medical information.</p>	
<p>NOTE TO PHYSICIAN: Contains petroleum distillate - vomiting may cause aspiration pneumonia</p>	

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

Environmental Hazards

This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas.

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 foraging the treatment area.

Physical or Chemical Hazards

Combustible. Do not use or store near heat or open flame. Do not apply this product around electrical equipment due to the possibility of shock hazard.

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.

Use Restrictions

Except when applying to dogs or livestock, do not enter or allow others to enter treated area until sprays have dried, and vapors, mists, and aerosols have dispersed, and the treated area has been thoroughly ventilated. Wait two (2) hours after application, then open windows, vents and doors for two hours. If an odor is still detected additional ventilation is required. Except when applying to dogs or livestock, do not apply this product in a way that will contact workers or other persons, either directly or through drift. Except when applying to dogs or livestock, only protected handlers may be in the area during application. Remove pets and birds and cover fish aquariums before spraying. Do not breathe vapors or spray mist. Do not apply when food is present. Do not use in food handling establishments, restaurants or other areas where food is commercially prepared or processed. Do not use in serving areas while food is exposed. Serving areas are areas where prepared food is 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 should be covered or removed. When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking. Not for broadcast use on indoor surfaces. Use in a handheld cold or thermal fogger is prohibited.

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- 1) Treatment to soil or vegetation around structures;
- 2) Application to lawns, turf, and other vegetation;
- 3) Applications to building foundations, up to a maximum height of 3 feet.

Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors, and eaves) are limited to spot and crack-and crevice applications only.

Do not water the treated area to the point of runoff. Do not make applications during rain.

Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur. Do not allow this product to enter any drain during or after application. Not for use in outdoor residential misting systems.

FOR PET USE: USE ONLY ON DOGS, HORSES AND PONIES

(Products which have pet uses must include the following cat warning text. This cat warning text must be placed within a shaded box in the Precautionary Statements of the label. The coloring of the box and text will be such to provide a contrasting color to other label text. The shaded box must contain the following:

“DO NOT USE ON CATS. May be toxic or potentially fatal if applied to or ingested by cats. Accidental application to cats and/or grooming a recently treated dog may result in tremors and/or uncoordinated muscle movements. If this occurs, immediate veterinary care should be provided.”

-Include the following statement prominently on the front panel of product packaging (in bold),

“DO NOT USE ON CATS”

-Each label must include at least one cat slash icon. This icon may be in the shaded box or in other areas on the label.

.)

DILUTION RATES: The number following the dilution directions on this label refers to the ready- to-use Permethrin percentage. To prepare dilutions, add the required amount of concentrate to water and blend thoroughly. Dilution rates on this label will yield the following ready-to-use product:

Dilution Ratio	Amount of Concentrate per Gallon of Water		Permethrin %
	Fluid Ounce	or Teaspoon	
1:19	6.4		0.50%
1:40	3.2		0.25%
1:100	1.28	8	0.10%
1:200	0.64	4	0.05%
1:400	0.32	2	0.025%

For maximum effectiveness, a combination of localized application and space treatment is recommended.

INDOOR USE

Rate:

Initial clean-up of severe insect infestation: 6.4 fl. oz./gal. water (0.50% permethrin; dilution ratio 1:19)

Normal infestations: 1.28 fl. oz./gal. water (0.1% permethrin; dilution ratio 1:100)

Maintenance use: 0.64 fl. oz./gal. water (0.05% permethrin; dilution ratio 1:200)

As a surface spray to control: *Cockroaches, Waterbugs, Palmetto Bugs, Ants, Silverfish, Firebrats, Spiders, Crickets, Millipedes, Centipedes, Sowbugs, Pillbugs, Clover Mites, Cheese Mites, Granary Weevils, Rice Weevils, Confused Flour Beetles, Rust Red Flour Beetles, Saw-toothed Grain Beetles, Spider Beetles, Cigarette Beetles, Drugstore Beetles, Darkling Beetles, Mealworms, Grain Mites and Cadelles.* Adjust sprayer to deliver a coarse wet spray. Direct the spray into hiding places, crack 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 Carpet Beetles: Spray edges of carpeting and under carpeting and rugs. Make localized application to floor and baseboards. Spray directly into cracks and closets and onto infested areas of shelving.

To control Bed Bugs: Spray mattresses lightly, particularly around tufts and seams. Take bed frames apart and spray in all joints. Treat baseboards, moldings and floors. Allow all treated articles to thoroughly dry before use.

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..

As a space spray: For rapid control of House Flies, Fruit Flies, Gnats, Mosquitoes, Skipper Flies, Wasps, Hornets, Bees, Black Flies, Angoumois Grain Moths ,and Tobacco Moths. For rapid kill of other insects named on this label -- Apply with mechanical or compressed air equipment (non-thermal) adjusted to deliver a fine mist. Close doors and windows and shut off ventilating systems. Direct spray at an upward angle, distributing it uniformly through the entire area at a rate of 1 ounce per 1000 cubic feet of space. Keep area closed for at least 10 minutes. Vacate area after treatment and ventilate and sweep up dead insects before reoccupying.

OUTDOOR USE

Do not allow spray to drift on pastureland, cropland, poultry ranges or water supplies. Do not use on crops used for food, forage or pasture. Never treat open water with this product. Do not use within 10 feet (3 meters) of lakes and streams. In the treatment of corrals, cover any exposed water, drinking fountains and animal feed before application.

Flying Insects

To aid in control of *Mosquitoes, Wasps, Gnats and Skippers*

Rate: Initial clean-up of severe insect infestation: 6.4 fl. oz./gal. water (0.50% permethrin; dilution ratio 1:19)

Normal infestations: 1.28 fl. oz./gal. water (0.1% permethrin; dilution ratio 1:100)

Maintenance use: 0.64 fl. oz./gal. water (0.05% permethrin; dilution ratio 1:200)

Treat walls, ceilings, moldings, screens, door frames, window frames, beams, light cords and similar resting places.

For temporary reduction of annoyance *Flies, Gnats and Mosquitoes*

NOT FOR USE AS A WIDE-AREA MOSQUITO ADULTICIDE.

Rate: 3.2 fl. oz./gal. water (0.25% permethrin; dilution ratio 1:40)

Direct spray into tall grass and shrubbery and around lawns where these pests may hover or rest. Apply while the air is still and avoid wetting foliage of desirable plants. Apply product before occupancy.

Gypsy Moth Caterpillars and Adults, Adult Japanese Beetles, Eastern & Forest Tent Caterpillars:

Rate: 3.2 fl. oz./gal. water (0.25% permethrin; dilution ratio 1:40)

On Trees, Shrubs, Roses and in Flower Gardens: To kill on contact, apply to ensure thorough coverage of upper and lower leaf surfaces. Treat as soon as insects emerge (usually late spring). Apply to leaves, branches, tree trunks, plants and flowers evenly, making sure to penetrate dense foliage. Repeat application every 7 days as necessary for control.

ANIMALS AND ANIMAL PREMISE USE

Kills Stable Flies, Horse Flies, Deer Flies, Face Flies, Houseflies, Horn Flies, Mosquitoes and Gnats

CATTLE BARNS, SWINE HOUSES, MILK ROOMS, KENNELS, POULTRY HOUSES, HORSE BARNS, DAIRIES, MILKING PARLORS

Rate:

Initial clean-up of severe insect infestation: 1.28 fl. oz./gal. water (0.1% permethrin; dilution ratio 1:100)

Normal infestations: 0.64 fl. oz./gal. water (0.05% permethrin; dilution ratio 1:200)

Maintenance use: 0.32 fl. oz./gal. water (0.025% permethrin; dilution ratio 1:400)

To control *Flies, Mosquitoes, Meal Worms, Darkling Beetles and Gnats:* Apply as a fog or fine mist, directing the spray toward ceiling and upper corners until the area is filled with mist. Use 2 fl. oz. dilute spray per 1,000 cu. ft. of space. Close doors and windows before spraying. Vacate the treated area after spraying and keep closed for 10 to 15 minutes. Ventilate before reoccupying.

To control *Fleas, Flies, Ticks, Lice and Mange Mites (adult and larvae)* in kennels, doghouses, runs and yards: Thoroughly spray pest breeding or resting areas until damp. Most efficient pest control is accomplished when heavy pressure and good contact is achieved. Timing and frequency of application 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 2 Weeks.

HORSES & PONIES, DAIRY & BEEF CATTLE, SHEEP, GOATS, SWINE, POULTRY

Do not apply as a spray to foals under 3 months of age. Spray lactating dairy cows only after milking is completed. Do not ship treated swine for slaughter within 5 days of last treatment.

Rate:

Initial clean-up of severe insect infestation: 1.28 fl. oz./gal. water (O, 1% permethrin; dilution ratio 1:100)

Normal infestations: 0.64 fl. oz./gal. water (0.05% permethrin; dilution ratio 1:200)

Maintenance use: 0.32 fl. oz./gal. water (0.025% permethrin; dilution ratio 1:400)

For Wipe-On: Remove excess dust and dirt. Spray product on clean cloth and wipe animal, being careful to treat back, withers and forelegs. To protect face from flies, apply to face and head, but avoid contact with eyes.

To control *Horn Flies, Houseflies, Mosquitoes and Gnats:* apply to wet the hair thoroughly, paying particular attention to topline, underline, flanks, withers and other infested areas. Repeat treatment in 5 to 12 days for small insect populations, or as needed when flies emerge in large numbers.

To control *Stable Flies, Horse Flies and Deer Flies:* Apply one quart per animal to wet the hair thoroughly, paying particular attention to legs, flanks barrel, topline and other body areas commonly attacked by these flies; Repeat daily as needed.

To control *Face Flies:* Use a sprayer that produces large wetting droplets. Apply to the face of the animal, in the morning before releasing to pasture. Sufficiently wet the animal's face, but do not apply more than 1 1/2 ounces dilute product per animal. Repeat daily as needed.

To control *Poultry Lice:* Spray roosts, walls and nests or cages thoroughly - followed by spraying over the birds with a fine mist.

To control *Bedbugs and Mites (including Northern Fowl Mite)* in Poultry Houses: Rate: 1 gallon dilute spray per 100birds, Spray crevices of roost poles, cracks in walls and cracks in nests where bedbugs and mites hide. Spray birds with a fine mist, paying particular attention to vents.

To control *Sheep "Tick" or Ked:* Thoroughly wet all portions of the body by dipping or spraying with sufficient pressure and with a nozzle adjustment to give penetration of the wool.

DOGS & LIVESTOCK

Do not treat puppies less than 12 weeks old. Sensitivity 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. Consult a veterinarian before using this product on debilitated, aged, medicated, pregnant or nursing animals.

Rate:

Initial clean-up of severe insect infestation: 1.28 fl. oz./gal. water (OJ % permethrin; dilution ratio 1:100)

Normal infestations: 0.64 fl. oz./gal. water (0.05% permethrin; dilution ratio 1:200)

Maintenance use: 0.32 fl. oz./gal. water (0.025% permethrin; dilution ratio 1:400)

To control *Fleas, Ticks, Lice and Mange Mites (adults and larvae):* 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. Repeat applications in 2-3 weeks as needed.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in original container only in a cool, dry place out of reach of children and pets. Avoid excess heat.

Pesticide Disposal & Container Handling: Nonrefillable container. Do not reuse or refill this container. If empty: Place in trash or offer for recycling if available. If partly filled - Call your local solid waste agency for disposal instructions. Never pour unused product down any indoor or outdoor drain.

Phaeton Corporation
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[Lot No. added at production]