

28293-350

12/20/2001

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

EPA Reg. Number:

28293-350

Date of Issuance:

DEC 20 2001

Term of Issuance: Conditional

Name of Pesticide Product:

Unicorn 2.5% Permethrin RTS

NOTICE OF PESTICIDE:

Registration  
 Reregistration

(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 you product under FIFRA section 4.
2. Make the following labeling changes:
  - a. Revise the EPA Registration Number to read "EPA Reg. No. 28293-350"
  - b. Delete the front panel claim "provides ... residual control for up to 4 weeks of many hard-to-kill sucking and chewing insects" or specify the insects to which the 4-week residual claim applies. The re-treatment intervals specified throughout the Directions for Use are significantly less than 4 weeks, so it is unclear when users can expect residual control for up to 4 weeks.

Signature of Approving Official:

Date:

DEC 20 2001

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3. Please submit two (2) copies of your final printed label before you release the product for shipment. Please refer to the A-79 enclosure for a further description of final printed labeling. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing amended labeling constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

If you have any questions regarding this action, please contact Susan Stanton of my team at (703) 305-5218.

Sincerely,

George T. LaRocca  
Product Manager (13)  
Insecticide Branch  
Registration Division (7505C)

Enclosures

# Unicorn 2.5% Permethrin RTS

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For Use Around Residential (Home) Areas Only (editors note: [ ] brackets indicate alternate/optional text)

- Kills [Controls] Mosquitoes, Fleas, Ticks and Ants
- Water Based
- Kills and Repels
- Kills Ticks that may carry Lyme Disease
- [Also] Stop[s] Bugs In Your [Also Use on] • Lawns • Trees & Shrubs • Roses & Flowers • Fruits & Nuts • Vegetables
- Spray Around Yard Perimeter
- Hose End Use - Always Shake Well Before Using
- Will not stain
- Kills troublesome outdoor insects which destroy Lawns, Roses, Flowers, Trees and Shrubs, Vegetables, Fruits and Nuts
- Contains Permethrin, a long lasting insecticide which provides contact and residual control for up to 4 weeks of many hard-to-kill sucking and chewing insects.

- Also Kills Japanese Beetles, Mosquitoes and many other insects
- No Mix • No Mess • No Fuss
- Easy to apply
- 32 oz. Treats Up to 5,000 Square Feet
- Kills Over 100 Different Insects
- Contact and residual spray

Protects your Lawns, Trees & Shrubs, Roses & Flowers, Fruits & Nuts, and Vegetables from: Alfalfa loopers, Ants, Aphids, Armyworms, Bagworms, Beetles, Borers, Brown dog ticks, Budworms, Cabbageworms, Chinch bugs, Cicadas, Citrus black flies, Cluster flies, Codling moths, Corn earworms, Crickets, Cutworms, Earwigs, Elm spanworms, Fall cankerworms, Fire ants, Fleas, Green fruitworms, Gnats, Grasshoppers, Houseflies, Inchworms, Japanese beetles, Leafhoppers, Leafminers, Leafrollers, Lone star ticks, Lygus bugs, Mealybugs, Millipedes, Earworms, Mole Crickets, Mosquitoes, Moths, Navel orangeworms, Scales, Sod webworms, Sowbugs (pillbugs), Spider mites, Spring cankerworms, Tent caterpillars, Thrips, Tobacco budworms, Weevils, Whiteflies and many others.

### [PRODUCT USAGE [FACTS]

**KILLS:** [Ants,] Aphids, Beetles, [Chinch Bugs, Crickets, Japanese Beetles,] [Cutworms,] [Earwigs,] [Fleas,] [Japanese Beetle Grubs,] Mealybugs, [Mites,] [Mole Crickets,] [Mosquitoes,] [Sod Webworms,] Spider Mites, [Tent Caterpillars,] [Ticks,] Whiteflies and many other[s] [garden [nuisance] pests] [more insects] as listed.

**USE ON [WHERE TO USE]:** Fruits [Fruit Trees], Vegetables, Roses, Flowers, Lawns, Trees and Shrubs [and as a residual spray to outside surfaces of buildings, foundations, porches, patios, window frames, and other areas where pests congregates.] [Outdoors around the home]

**AMOUNT TO USE:** No mixing required. Connect to hose and spray.]

### ACTIVE INGREDIENT:

Permethrin\*..... 2.5%  
 (CAS No. 52645-53-1)

INERT INGREDIENTS:..... 97.5%  
 100.0%

\* Cis/trans isomer ratio: Min. 35% (+) cis, Max. 65% (+) trans

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See Side/Back Label Panel for Additional Precautionary Statements

**NET CONTENTS:**  
**Manufactured By:**  
 Unicorn Laboratories  
 12385 Automobile Blvd.  
 Clearwater, Florida 33762

ACCEPTED with COMMENTS in EPA Letter Dated

DEC 20 2001

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 28293-350

## PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

**CAUTION:** May be harmful if swallowed or absorbed through skin. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

<b>FIRST AID</b>	
<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• 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.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment.</p>	

**Environmental Hazards**

This pesticide is extremely toxic to fish. Do not apply directly to water. Drifts and runoff from treated areas may be hazardous to aquatic organisms in neighboring 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.

**STORAGE AND DISPOSAL**

**STORAGE:** Store in a cool, dry area away from heat or open flame.

**DISPOSAL:** **If empty** – Do not reuse this container. Place in trash or offer for recycling if available. **If partly filled** – Call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

**DIRECTIONS FOR USE**

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

This product kills troublesome outdoor insects which destroy lawns, roses, flowers, trees and shrubs: Ants, Bagworms, Aphids, Borers, Armyworms, Chinch Bugs, Inchworms, Spider mites, Green fruitworms, Beetles, Fleas, Cicadas, Thrips, Leafhoppers, Cutworms, Sod webworms, Leafrollers, Whiteflies, Moths, Weevils.

Also kills Alfalfa loopers, Brown dog ticks, Budworms, Cabbageworms, Citrus black flies, Cluster flies, Codling moths, Corn earworms, Crickets, Earwigs, Elm spanworms, Fall cankerworms, Gnats, Grasshoppers, House flies, Japanese beetles, Leafminers, Lone star ticks, Lygus bugs, Mealybugs, Millipedes, Mole crickets, Mosquitoes, Navy orangeworms, Scales, Sowbugs (pillbugs), Spring cankerworms, Tent caterpillars, Ticks including Deer tick (which may carry Lyme disease) Tobacco budworms and many others.

**HOSE END SPRAYER: Easy to Use.**

1. Make sure Knob is twisted fully clockwise to OFF position. Shake well before attaching to hose.
2. Turn Product Control Button clockwise until the flat portion is flush with the lock tab, then push button all the way in. Avoid squeezing bottle.
3. Turn water on at faucet, aim nozzle toward lawn and turn Knob counterclockwise to begin spraying.
4. When finished push Product Control Button to OFF position from opposite side. Return Knob and faucet to OFF position. Discharge water pressure by turning Knob ON and OFF again. Turn Product Control Button counterclockwise away from lock tab to prevent accidental discharge. Store out of reach of children.

(Alternate Hose End Sprayer Directions – Used in accordance with type of Hose End packaged)

**HOSE END SPRAYER: Easy to Use.**

1. Make sure knob Control lever is in the OFF position. Shake well and attach to hose.
2. Turn water on at faucet, aim nozzle toward lawn and turn knob Control lever to ON to begin spraying.
3. When finished turn Control lever to OFF position. Turn faucet to OFF Position. Discharge residual water pressure by turning ON and OFF again. Store out of reach of children.

(Alternate Hose End Sprayer Directions – Use in accordance with type of Hose End packaged)

**HOSE END SPRAYER: Easy to Use.**

**INSTRUCTIONS**

1. Make sure [white] Water [Control] Valve [on top of bottle] is in the OFF or back position and the red Product Mixing Valve is [pointed] in the CLOSED or upright position.
2. Shake the product well and firmly attach to garden hose.
3. Turn water on at faucet and aim nozzle toward lawn. To begin water flow, turn [white] Water Valve ON by pushing forward. To begin spraying mixture, rotate [red] Product Mixing Valve OPEN by turning it ¼ of a turn counter clockwise.
4. Walk at a steady pace spraying in a side to side arc slightly overlapping treated areas. [Refer to graduated side of container to guide coverage.]

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5. To stop spraying, turn the [red] Product Mixing Valve to the CLOSED or upright position and return the [white] Water Valve to the OFF or back position.
6. For product storage, both valves should be in the CLOSED/OFF position.

Do not spray animals. People and pets should not be allowed in treated areas until spray has dried.

### HOME LAWNS

TREATMENT AREAS [Plants]	PESTS [Controlled]	REMARKS [How to Use] [General Directions]
Bent, Bermuda, Bluegrass, Dichondra, Fescue, Irish Moss, Merion, St. Augustine	Ants, Armyworms, Brown dog ticks, Chiggers, Chinch bugs, Crickets, Cutworms, Fleas, Grasshoppers, Japanese beetle grubs, Leafhoppers, Mole crickets, Mosquitoes, Sod webworms, Ticks, including Deer Tick (which may carry Lyme disease)	Thoroughly wet down grass a few hours before applying. Home lawns should be no taller than 3 inches at time of application. One quart of this concentrate as applied through the Hose-End Sprayer treats 5,000 sq.ft. For heavy infestations, repeat application after 2 weeks.

### TREES & SHRUBS

TREATMENT AREAS [Plants]	PESTS [Controlled]	REMARKS [How to Use] [General Directions]
Arizona cypress, Azalea, Birch, Cherry, Non-bearing citrus, Conifers, Elm, English ivy, Euonymus, Weeping fig, Fir, Honeysuckle, Lilac, Mock-orange, Oak, Palm, Philodendron, Pine, Poinsettia, Tulip, Poplar, Rhododendron, Taxus	Aphids, Bagworms, Cicadas, Exposed thrips, Fall cankerworms, Gypsy moth, Inchworms, Japanese beetles, Leafminers, Leafrollers, Mealybugs, Spider mites, Tent caterpillars*, Whiteflies,	Apply as a thorough spray, wetting leaves and branches completely, but avoid runoff. Try to penetrate dense foliage. Spray in the late afternoon or evening, when the temperature ranges from 50° to 75° F and when there is little or no wind. Spray at the first sign of insects. Repeat applications may be made at intervals of 4-8 days. Application can be made up to the day of collection.
Cherry, Honeysuckle	Fall webworms	*On tent caterpillars, application should be made when caterpillars are young and tents are first noticed. For best results, apply in the late afternoon or evening, when caterpillars have returned to their tents. Wet tents with spray on all sides. A few caterpillars may be seen escaping from the tent; however, they should die within several hours.
Conifers	Budworms	
Elm	Elm leaf beetles, Elm spanworms, Fall webworms	
Douglas and Grand firs	Tussock moths	
Non-bearing citrus	Citrus black flies	
Oak	Oakworms	
Pine	Pine beetles, Pine moths, Pine needleminers, Needle scales	

**ROSES & FLOWERS**

TREATMENT AREAS [Plants]	PESTS [Controlled]	REMARKS [How to Use] [General Directions]
Ageratum, Aster, Ardisia, Azalea, Baby's breath, Begonia, Birds-nest fern, Bleeding heart, Carnation, Chrysanthemum, Coleus, Common ninebark and snowberry, Crown of thorns, Cockscomb, Cyclamen, Dracaena, Dumbcane, English ivy, Exacum, Fuchsia, Gladiolus, Gold bells, Hypoestes, Ivy, Juniper, Lilac, Marigold, Mock-orange, Nannyberry, Orchid, Palm, Pansy, Pea shrub, Peperomia, Petunia, Philodendron, Piggy-back plant, Poinsettia, Portulaca, Pothos, Prayer plant, Purple passion, Rabbits foot fern, Rhododendron, Rose, Schefflera, Snapdragon, Snake plant, Statice, Velvet plant, Verbena, Zinnia	Aphids, Armyworms, Bagworms, Cabbage worms, Cicadas, Cornworms, Cutworms, Exposed thrips, Fall cankerworms, Fall webworms, Fungus gnats, Inchworms, Japanese beetles, Leafminers, Leafrollers, Mealybugs, Psyllids, Rose chafer, Scale crawlers, Scale insects, Spider mites, Spring cankerworms, Whiteflies	Apply as a thorough spray, wetting the plants completely, but avoid runoff. Try to hit underside of leaves and penetrate dense foliage. Spray in the later afternoon or evening, when the temperature ranges from 50° to 75° F and when there is little or no wind. Spray at the first sign of insects. Repeat applications may be made at intervals of 4-8 days. Application can be made up to the day of collection.

**FRUIT & NUT TREES**

**General Directions:** Apply when insects appear. Wet the plants completely, but avoid runoff. Try to hit underside of leaves and penetrate dense foliage.

TREATMENT AREAS [Plants]	PESTS [Controlled]	REMARKS [How to Use]
Almonds, Pecans	Navel orangeworms, Peach twig borers	Do not make more than 2 applications during hull split and 5 applications per season. Can be applied up to 7 days prior to harvest.
Apples	Aphids, Green fruitworms, Japanese beetles, Leafrollers (Oblique-banded; Redbanded), Plum curculio, Rosy apple aphids, Spotted tentiform leafminers, Tarnished plant bugs, White apple leafhoppers	Repeat as required to maintain control. Do not make more than 3 applications. Do not apply after petal fall.
Peaches	Borers (Lesser peachtree, Peach twig), Green fruitworms, Plum curculio, Oriental fruit moths, Tarnished plant bugs	Do not apply within 7 days of harvest. Do not make more than 8 applications per season.
Pears (dormant through delayed dormant)	Pear psylla	Apply during the dormant through delayed dormant growth period only. Do not make more than 2 applications per season.
Pears (summer)	Aphids, Codling moths, Green fruitworms, Pear psylla	Do not make more than 3 applications per season. Can be applied up to 14 days prior to harvest.

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## VEGETABLES

TREATMENT AREAS [Plants]	PESTS [Controlled]	REMARKS [How to Use] [General Directions]
Asparagus (pre-harvest)	Asparagus beetles, Cutworms	Spray plants as needed to ensure uniform coverage. Do not make more than 4 applications per crop. Can be applied up to 3 days prior to harvest.
Asparagus (post-harvest)	Larval stages of Asparagus beetle, Tarnished plant bugs, Lygus bugs and Adult Japanese beetles	Treat ferns or bush growth after spear harvest when insects are present.
Beans	Mexican bean beetle, Leafhoppers, Flea beetles, Corn earworm, Lygus and Stinkbugs	Apply as needed, but not more than 8 applications per season. Can be applied up to 3 days prior to harvest.
Celery – see Leafy Vegetables		
Broccoli, Brussels sprouts, Cabbage, Cauliflower	Beet armyworms, Cabbage aphids and Loopers, Diamondback moths, Imported cabbageworms	Apply every 5 days or as needed. Can be applied up to 1 day prior to harvest. Do not make more than 8 applications on Cauliflower, Brussels Sprouts, and Broccoli and 10 applications on Cabbage.
Corn – see Sweet Corn		
Cucurbits: Balsam pear (bitter melon), Chinese waxgourd (Chinese preserving melon), Citron melon, Cucumber, Gherkin, Edible gourds, Melons including hybrids such as Cantaloupe, Casaba, Crenshaw, Honeydew, Honey balls, Mango melon, Muskmelon, Persian melon, Pumpkin, Summer & Winter Squash, Watermelon	Aphids, Cabbage loopers, Cucumber beetles (adults), Cutworms, Leafhoppers, Leafminers, Melonworms, Pickleworms, Plant Bugs and Squash bugs	Spray plants as needed to ensure uniform coverage. Can be applied up to the day of harvest.
Eggplant	Colorado Potato beetles, Vegetable leafminers	Spray plants as needed to ensure uniform coverage. Do not make more than 16 applications. Can be applied up to 3 days prior to harvest.
Horseradish (Foliar application)	Imported crucifer weevils	Spray as needed. Do not make more than 3 foliar applications. Can be applied up to 22 days prior to harvest.



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TREATMENT AREAS [Plants]	PESTS [Controlled]	REMARKS [How to Use] [General Directions]
Leafy vegetables: Amaranth, Arrugula, Celery, Celtuce, Chervil, Corn salad, Chrysanthemum (edible- leaved and garland), Cress (garden & upland) Dandelion, Dock, Endive, Fennel, Lettuce (head & leaf), Okra, Orach, Parsley, Purslane (garden & winter), Rhubarb, Spinach, Swiss chard	Alfalfa loopers, Aphids, Beet armyworms, Cabbage loopers, Corn earworms, Cutworms, European corn borers, Fall armyworm, Green cloverworms, Southern armyworms, Tobacco budworms, Vegetable leaf miners	Spray every 5-10 days as needed. Do not make more than 7 applications per crop. Can be applied up to 1 day prior to harvest.
Melons – see Cucurbits		
Potatoes	Beet armyworms, Colorado potato beetles, Potato leafhoppers, Potato aphids, Potato tuberworms, Cabbage loopers, Cutworms, European corn borers, Potato psyllids, Tarnished plant bugs	Spray plants as needed. Do not make more than 12 applications. Can be applied up to 7 days prior to harvest.
Peppers	Vegetable leafminers, Cabbage loopers, Flea beetles, Corn earworms, Pepper weevils, European corn borers	Spray plants as needed. Do not make more than 8 applications per crop. Can be applied up to 3 days prior to harvest.
Strawberries, Raspberries, Blueberries	Strawberry weevils, Aphids, Spider mites, Lygus bugs, Flea beetles, Omnivorous leafier, Spittlebugs, Japanese beetles, Field crickets, Red Spider, Leafroller, Weevils	Allow 14 days between last application and harvest. Make no more than 8 foliar applications per growing season.
Sweet corn	Corn earworms, European corn borers, Fall armyworms, Southern armyworms	Spray plants every 5 days and when needed. Do not make more than 6 applications per season. Can be applied up to 1 day prior to harvest.
Tomatoes	Beet and Southern armyworms, Tomato pinworms, Tomato fruitworms, Hornworms, Granulate cutworms, Colorado potato beetles, Cabbage loopers	Spray plants when needed for uniform coverage. Can be applied up to date of harvest.

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**NUISANCE PESTS IN OUTDOOR AREAS**

<b>TREATMENT AREAS</b>	<b>PESTS [Controlled]</b>	<b>REMARKS [How to Use][General Directions]</b>
Outside surfaces Of buildings	Ants (including foraging fire ants), Chiggers, Clover mites, Crickets, Earwigs, Millipedes, Sowbugs (pillbugs), Mosquitoes	To help prevent infestation of buildings, treat the building foundation to a height of 2 to 3 feet, where pests are active and may find entrance. Also, apply as a residual spray to outside surfaces of building, including porches, screens, window frames, eaves, patios, garages, refuse dumps and other areas where these pests congregate or have been seen. For mosquitoes, application is for use only as an aid in reducing annoyance.
Other outdoor areas	Ants (including foraging fire ants), Chiggers, Crickets, Earwigs, Fleas, Lone star ticks, Ticks, including Deer tick (which may carry Lyme disease)	For treatment of localized infestations of these insects in areas where there are weeds or bushy non-crop areas, spray infested areas thoroughly. For Ants, thoroughly wet hills and runways.
	Cluster flies, Flying moths, Gnats, House Flies, Mosquitoes	For use only as an aid in reducing annoyance from these insects. Spray outside surfaces of screens, doors, window frames or wherever these insects may enter the room. Also treat surfaces around light fixtures on porches, in garages and other places where these insects alight or congregate.
	Tent caterpillars	Application should be made when caterpillars are young and tents are first noticed. For best results, apply in the late afternoon or evening, when caterpillars have returned to their tents. Wet tents with spray on all sides. A few caterpillars may be seen escaping from the tent, however, they should die within several hours.

**NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.**