



## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

MAY 19 2003

Ms. Barbara J. Varner  
Unicorn Laboratories  
12385 Automobile Blvd.  
Clearwater, FL 33762

Subject: Amendment: Adding Use Directions for Livestock and Dogs  
Unicorn Multi-Use 2.5% Permethrin Concentrate  
EPA Reg. No. 28293-351  
Your Resubmission Dated February 10, 2003

Dear Ms. Varner:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comment below. Two (2) copies of the finished labeling must be submitted prior to releasing the product for shipment. A stamped copy of the label is enclosed for your records.

1. You must delete the directions for use on dogs and the associated front panel claims for dogs. As stated in my January 13, 2003 letter, products intended for use indoors by homeowners must be "ready-to-use" formulations. Since dogs are commonly treated indoors, you must remove this use from the label.

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

Sincerely,

A handwritten signature in cursive script that reads "Susan L. Stanton, for".

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

Enclosure

2/13

# Unicorn Multi-Use 2.5% Permethrin Concentrate

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

- [• Kills [Controls] Mosquitoes, Fleas, Ticks and Ants]
  - For Control of Fleas, Brown Dog Ticks and Lice on Premises and on Dogs • For Control of Pests on Livestock
  - Controls Fleas and Ticks on Dogs for 14 Days • Quick-Kill Formula • Long Lasting Control
  - Water Based [• [Also] Kills Japanese Beetles, [Mosquitoes], [Fire Ants] and many other insects]
  - Kills and Repels [• Kills Wood Infesting Insects]
  - Kills [Deer] Ticks that [which] may carry Lyme Disease [• Kills Carpenter Bees & Beetles]
  - [Also] Stop[s] Bugs in Your [Also Use on] • Lawns • [Trees & Shrubs] [• Roses & Flowers] [• Fruits & Nuts] [• Vegetables] [• Gardens]
  - [• Kills Termites\*\*, Carpenter Ants, Carpenter Bees, Powderpost Beetles and other listed insects]
  - [• Treat outside surfaces of buildings, porches, wooden decks, patios, fences, foundations, wood piles and tree stumps (editors note: for final printed labels with wood infesting insects directions)]
  - Spray Around Yard Perimeter • 32 oz. Treats Up to 5,000 Square Feet
  - Hose End Use - Always Shake Well Before Using • Kills 60+ Insects
- Contains Permethrin, a long lasting insecticide which provides contact and residual control of many hard-to-kill sucking and chewing insects.

### [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. [Kills pests on Livestock as listed] [Kills fleas, ticks and Lice on Dogs] [Also kills wood-infesting insects including Termites\*\* and Carpenter Ants. (editors note: for final printed labels with wood infesting insects directions)]

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

**AMOUNT TO USE:** See detailed instructions inside label. [Roses, Flowers, Trees, Shrubs, Fruits, Vegetables: 1-3 fl.oz. per gallon of water] [Lawns: 2-6 fl.oz. per 1,000 sq.ft.] [Nuisance pests: 6 2/3 oz. per 400 linear ft. by 6 inch spray band] [See directions for specific application rates.]

(Optional text below in *italics* can be used for final printed labels with wood infesting insects directions)

### [PRODUCT USAGE

**KILLS:** *Termites\*\* (including dry wood termites), Carpenter Ants, Carpenter Bees, Powderpost Beetles and other wood infesting pests.*

**USE ON:** *Outside surfaces of buildings, porches, wooden decks and patios, wooden fences, window frames, doorways, foundations, eaves, patios, garages, wood piles, tree stumps and other areas where you may find these pests.*

**AMOUNT TO USE:** *Mix 10 fl.oz. with 1 gallon of water to treat 100 sq.ft.]*

### [PRODUCT FACTS

**KILLS • Lawn Pests:** Chinch bugs, Cutworms, Mole Crickets, Japanese Beetle Grubs & Sod Webworms

- Tree, Shrub & Flower pests: Aphids, Beetles, Tent caterpillars, Mealybugs, Mites, Whiteflies & other garden pests
- Nuisance Pests (outdoors): Ants, Earwigs, Fleas, Mosquitoes and other nuisance pests [Kills Pests on Livestock as listed] [Kills fleas, ticks and lice on Dogs]

**WHERE TO USE •** On Roses, Flowers, Trees, Shrubs & Lawns

- Outdoors around the home]

(Optional text below in *italics* used when packaged in a hose-end applicator container only.)

### PRODUCT USAGE

**KILLS:** *Ants, Chinch Bugs, Crickets, Japanese Beetles, Mosquitoes, Ticks, Whiteflies, and many other insects as listed.*

**USE ON:** *Lawns, Trees, Shrubs, Roses, Flowers, and as a residual spray to outside surfaces of buildings, porches, patios, window frames, and other areas where pests congregate.*

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

### ACTIVE INGREDIENT:

Permethrin*.....	2.5%
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:**

**MAY 19 2003**

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

28293-351

## ♦ READ ENTIRE LABEL BEFORE EACH USE

**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>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	

**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.

**OUTDOOR USE:**

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.

**THREE EASY STEPS TO MIX AND APPLY:**

**Step #1:** For lawns and vegetables, measure the area to be sprayed. Calculate square feet by multiplying length by width. For all other applications, apply as a thorough cover spray.

**Step #2:** Use a clean sprayer. Carefully measure and mix the amount of concentrate and water as directed.

**Step #3:** Spray as directed. Thorough coverage is important. Flush sprayer with clean water after each use. **Make applications when insects first appear.** Repeat applications as directed. See directions for complete insect list.

Use dilution rates as indicated. 1 fl. oz. = 6 tsp. or 2 Tbsp; 8 fl. oz. = 1/2 pint or 1 cup.

Food utensils such as teaspoons or measuring cups should not be used for food purposes after use with insecticides.

**NUISANCE PESTS IN OUTDOOR AREAS**

TREATMENT AREAS	PESTS [Controlled]	REMARKS [How to Use][General Directions]	USE RATE
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.	6 2/3 fl. oz. in 1 quart of water, treating 400 linear feet with a 6-inch spray band
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. <b>For Ants</b> , thoroughly wet hills and runways.	

TREATMENT AREAS	PESTS [Controlled]	REMARKS [How to Use][General Directions]	USE RATE
Other outdoor areas (continued)	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.	6 2/3 fl. oz. in 1 quart of water, treating 400 linear feet with a 6-inch spray band
	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.	

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

### WOOD-INFESTING INSECTS INCLUDING TERMITES\*\* (OUTDOOR USE):

WOOD INFESTING INSECTS INCLUDING TERMITES: For Beetles (Furniture, Deathwatch, False powderpost, Longhorned, Powderpost, Carpenter ants (and other wood-infesting ants), Carpenter bees and Termites (for localized control only) (including dry-wood termites):

Treat outside surfaces of building, porches, wooden decks and patios, wooden fences, window frames, doorways, foundations, eaves, patios, garages, garage areas and other areas where you may find these pests.

Mix 10 fl.oz. with 1 gallon of water to treat 100 sq.ft. Spray infested surfaces until thoroughly wet, avoiding dripping and runoff. Apply evenly on wood surfaces. To treat small areas, apply by brushing or spraying the diluted spray. For large areas, use a coarse, low-pressure spray. Do not spray into electrical outlets or utilities.

Spray infested areas and areas likely to be infested, such as wood surfaces, voids and channels in damaged wood, spaces between wooden parts of a structure, and between wood and foundations where infestation is likely to occur, also around fenceposts, wood piles (do not use on firewood) and tree stumps.

Suitable protective clothing should be worn in confined or overhead areas to prevent exposure to eyes and skin. The use of gloves and footwear, a long-sleeved shirt and long pants or coveralls are recommended. Do not permit contact with treated surfaces until spray has dried. Treated confined areas, such as detached garages, under porches and decks, should be ventilated during and immediately following application before the areas are re-occupied.

For carpenter ants, spray around doors and windows and other places where ants may enter or crawl and hide. Also treat cracks and crevices or openings into wall voids or other areas where these ants may be present.

For carpenter bees, spray or inject into holes and tunnels already made by the bees with a tank sprayer, and spray areas where they are beginning to build tunnels into the wood.

For termites\*\* (including dry-wood termites): treat as for other wood-infesting insects. This product will kill workers and winged reproductive forms of termites in the treated areas. For localized control only. For active infestations get a professional inspection.

\*\* USE OF THIS TYPE OF PRODUCT TO CONTROL (KILL) TERMITES SHOULD NOT BE CONSIDERED A SUBSTITUTE FOR SOIL TREATMENT OF SUBTERRANEAN TERMITES DONE BY A PROFESSIONAL PEST CONTROL OPERATOR.

### HOME LAWNS

TREATMENT AREAS [Plants]	PESTS [Controlled]	REMARKS [How to Use] [General Directions]	USE RATE
Bent, Bermuda, Bluegrass, Dichondra, Fescue, Irish Moss, Merion, St. Augustine	Armyworms, Brown dog ticks, Chiggers, Chinch bugs, Cutworms, Fleas, Japanese beetle grubs, 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. Slightly more water may be used as long as the amount of product per area is as directed. For heavy infestations, repeat application after 2 weeks.	6 fl. oz. in 10 gals. Of water to cover 1,000 sq. ft.
	Ants (including foraging fire ants), Crickets, Grasshoppers		2 fl. oz. in 3 gallons of water to cover 1,000 sq. ft.
	Fire ants (mound treatment)	Apply 1 gallon of solution as a gentle rain to each fire ant mound using a sprinkler can. Thoroughly wet the mound and surrounding area to a 4 foot diameter. For best results, apply in cool weather, 65°-80°F, or in early morning or late evening hours. Treat new mounds as they appear. Do not disturb the mound prior to treatment. If possible, treat all mounds in the vicinity, and treat all colonies which may not as yet have constructed a mound. Larger quantities of solution can be prepared for multiple mound treatments. Equipment to deliver the diluted product as a gentle rain at the rate of 1 gallon per mound is still required. Do not use equipment that produces a pressurized spray as pressurized sprays may disturb fire ants and cause migration, reducing product effectiveness.	6 fl. oz. in 1 gallon of water to treat one mound

**TREES & SHRUBS**

TREATMENT AREAS [Plants]	PESTS [Controlled]	REMARKS [How to Use] [General Directions]	USE RATE
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, Inchworms, Leafminers, Leafrollers, Mealybugs, Spider mites, Whiteflies	Apply as a thorough spray, wetting leaves and branches completely. 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.	1 fl. oz. in 1 gallon of water
Cherry, Honeysuckle	Fall webworms		
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]	USE RATE
Ageratum, Aster, Azalea, Begonia, Coleus, Common ninebark and snowberry, Exacum, Gladiolus, Gold bells, Hypoestes, Ivy, Lilac, Marigold, Mock-orange, Nannyberry, Orchid, Pansy, Pea shrub, Petunia, Poinsettia, Rhododendron, Rose, Snapdragon, Zinnia	Aphids, Bagworms, Cicadas, Exposed thrips, Fall cankerworms, Fall webworms, Inchworms, Leafminers, Leafrollers, Mealybugs, Spider mites, Whiteflies	Apply as a thorough spray, wetting the plants completely. 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.	1 fl. oz. in 1 gallon of water

## FRUIT &amp; NUT TREES

TREATMENT AREAS [Plants]	PESTS [Controlled]	REMARKS [How to Use] [General Directions]	USE RATE
Almonds	Navel orangeworms, Peach twig borers	Apply when insects appear. Wet the plants completely. Try to hit underside of leaves and penetrate dense foliage. 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.	2 fl. oz. in 1 gallon water
Apples	Green fruitworms, Leafrollers (Oblique-banded; Redbanded), Plum curculio, Rosy apple aphids, Spotted tentiform leafminers, Tarnished plant bugs, White apple leafhoppers	Apply when insects appear. Wet the plants completely. Try to hit underside of leaves and penetrate dense foliage. 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	Apply when insects appear. Wet the plants completely. Try to hit underside of leaves and penetrate dense foliage. Do not apply within 7 days of harvest. Do not make more than 8 applications per season.	
Pears	Pear psylla	Apply when insects appear. Wet the plants completely. Try to hit underside of leaves and penetrate dense foliage. Apply during the dormant through delayed dormant growth period only. Do not make more than 2 applications per season.	
Pears (summer)	Codling moths, Green fruitworms, Pear psylla	Apply when insects appear. Wet the plants completely. Try to hit underside of leaves and penetrate dense foliage. Do not make more than 3 applications per season. Can be applied up to 14 days prior to harvest.	



9/13

### VEGETABLES

TREATMENT AREAS [Plants]	PESTS [Controlled]	REMARKS [How to Use] [General Directions]	USE RATE
Asparagus (pre-harvest)	Asparagus beetles, Cutworms	Apply for uniform coverage as needed. Do not make more than 4 applications per crop. Can be applied up to 3 days prior to harvest.	1½ fl. oz. in 1 gallon of water to cover 1000 sq. ft.
Asparagus (post-harvest)	Beetles (Adult Japanese, Larval stages of asparagus), Lygus bugs, Tarnished plant bugs	Treat ferns or bush growth after spear harvest when insects are present.	
Celery	Armyworms (beet, Fall, Southern), Cabbage loopers, Cutworms (black, granulate), Vegetable leafminers	Apply every 3-5 days or as needed. Can be applied up to 3 days prior to harvest. Do not make more than 10 applications per season.	
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.	1 fl. oz. in 1 gallon of water to cover 1,000 sq. ft.
Eggplant	Colorado Potato beetles, Vegetable leafminers	Apply for uniform coverage as needed. Do not exceed 16 applications. Can be applied up to 3 days prior to harvest.	3 fl. oz. in 1 gallon of water to cover 1,000 sq. ft.
Horseradish (foliar application)	Imported crucifer weevils	Apply as needed. Do not exceed 3 foliar applications. Can be applied up to 22 days prior to harvest.	
Head lettuce	Corn earworms, Beet armyworms, Loopers (Alfalfa, Cabbage), Tobacco budworms	Apply every 5-10 days as needed. Do not make more than 10 applications per season. Can be applied up to 1 day prior to harvest.	2 fl. oz. in 1 gallon of water to cover 1,000 sq. ft.
Potatoes	Beetles (Colorado potato, Potato flea), Beet armyworms, Cabbage loopers, Cutworms, European corn borers, Leafhoppers (Aster, Potato), Potato aphids, Potato psyllids, Potato tuberworms, Tarnished plant bugs	Apply as needed. Do not make more than 12 applications. Can be applied up to 7 days prior to harvest.	1½ fl. oz. in 1 gallon of water to cover 1,000 sq. ft.
Peppers	Cabbage loopers, Corn earworms, European corn borers, Flea beetles, Pepper weevils, Vegetable leafminers	Apply as needed, but not more than 8 applications per season. Can be applied up to 3 days prior to harvest.	2 fl. oz. in 1 gallon of water to cover 1,000 sq. ft.

16/13

TREATMENT AREAS [Plants]	PESTS [Controlled]	REMARKS [How to Use] [General Directions]	USE RATE
Spinach	Beet armyworms, Cabbage loopers, Corn earworms, Cutworms, European corn borers, Green cloverworms, Leafhoppers	Apply for uniform coverage when needed, but not more than 7 applications per season. Can be applied up to 7 days prior to harvest.	1 ½ fl. oz. in 1 gallon of water to cover 1,000 sq. ft.
Sweet corn	Armyworms (Fall, Southern), Corn earworms, European corn borers	Apply every 5 days and when needed, but not more than 6 applications per season. Can be applied up to 1 day prior to harvest.	
Tomatoes (Do not apply on Cherry Tomatoes and varieties yielding tomatoes less than one inch in diameter)	Armyworms (Beet, Southern), Cabbage loopers, Colorado potato beetles, Granulate cutworms, Hornworms, Tomato fruitworms, Tomato pinworms	Apply as needed. Do not make more than 6 applications per season. Can be applied up to day of harvest.	1 ½ fl. oz. in 1 gallon of water to cover 1,000 sq. ft.

#### ON LIVESTOCK

ANIMAL / PREMISES	PESTS	REMARKS [How to Use]	DILUTION DIRECTIONS
Cattle (Beef and Dairy), Goats, Sheep, Hogs and Horses	Horn Flies, Face Flies, House Flies, Mosquitoes and Gnats	Apply a light mist sufficient to wet the surface of the hair. For face flies, spray face and head, but do not spray into eyes.	Product must be diluted prior to use. Mix 13 fl.oz. of this product with water to make 1 gallon of finished spray. Equivalent dilutions: 6 ½ fl.oz. with water for ½ gallon finished spray or 3 ¼ fl.oz. with water for 1 quart finished spray.
	Stable Flies, Horse Flies and Deer Flies	Apply at a rate of 2 ounces per adult animal, sufficient to wet the hair thoroughly. Repeat treatment daily or at intervals needed to give continued protection.	
	Blood-sucking Lice	Apply to the infested areas of the animal, using a stiff brush to get the spray to the base of the hair. Repeat every 3 weeks as needed.	
Poultry and their roosts, walls, nests or cages	Poultry Lice	Spray premises thoroughly. This should be followed by spraying over the birds with a fine mist.	
Poultry houses	Bedbugs and Mites	Spray crevices of roost poles, cracks in walls, and cracks in nests where the bedbugs and mites hide.	

### ON DOGS

PESTS	REMARKS [How to Use]	PRECAUTIONS	DILUTION DIRECTIONS
Fleas, Ticks and Lice	<p>Start spraying at the tail, moving the dispenser rapidly and making sure that the animal's entire body is covered, including the legs and underbody. While spraying, fluff the hair so that the spray will penetrate to the skin.</p> <p>Make sure spray wets thoroughly, but do not saturate animal. Do not spray into eyes or face. Avoid contact with genitalia. Use protective gloves or mitts when applying product. Reapply every two (2) weeks as needed.</p>	<p>Sensitivities may occur after using <b>ANY</b> 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.</p> <p>NOTE: Do not use on puppies under twelve (12) weeks of age. Consult a veterinarian before using this product on debilitated, aged, pregnant or nursing animals or animals on medication. <b>DO NOT USE ON CATS OR KITTENS.</b></p>	<p>Product must be diluted prior to use. Mix 13 fl.oz. of this product with water to make 1 gallon of finished spray. Equivalent dilutions: 6 ½ fl.oz. with water for ½ gallon finished spray or 3 ¼ fl.oz. with water for 1 quart finished spray.</p>

**HOSE END SPRAYER:** Easy to Use. For Application to Lawns, Outdoor Ornamentals, Outside Surfaces of Buildings, and Other Outdoor Residential Areas. 32 oz. Treats Up to 5,000 Square Feet

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. For Application to Lawns, Outdoor Ornamentals, Outside Surfaces of Buildings, and Other Outdoor Residential Areas.

32 oz. Treats Up to 5,000 Square Feet

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. For Application to Lawns, Outdoor Ornamentals, Outside Surfaces of Buildings, and Other Outdoor Residential Areas.

32 oz. Treats Up to 5,000 Square Feet

**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.]
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.

*(Editors Note: The following two sets of alternate hose end sprayer directions are for specific customer packaging and used only by that customer on their final printed labels.)*

(Alternate Hose End Sprayer Directions – Use in accordance with type of Hose End packaged)  
**[FOR USE WITH THE Lock 'N Spray® SYSTEM**

Lock 'N Spray makes lawn and garden care easy. Simply attach this cartridge to the Lock 'N Spray sprayer (sold separately). Eliminates mixing, measuring and messy clean up. Automatically mixes the right amount of product and water.]

HOW TO USE THE Lock 'N Spray® SYSTEM	
CONNECT	Connect sprayer to hose.
	Attach cartridge to sprayer. Turn cartridge until it clicks into place.
SPRAY	To begin spraying, rotate sprayer nozzle tip to direct spray up or down, or remove for a 20 to 25 ft. jet spray. Turn on water and squeeze trigger.
FINISH	• To stop spraying, release trigger, unlock cartridge and remove from sprayer. (No need to turn off water.)
	• To clean sprayer, flush with water, squeezing and releasing trigger in 2 short bursts. Turn off water.
	• To disconnect sprayer, relieve water pressure by squeezing trigger.
Cartridge reseals itself automatically – No spills, no leaks!	

(Alternate Hose End Sprayer Directions – Use in accordance with type of Hose End packaged)  
[HOW TO USE THE Ready-Spray® SYSTEM]

**CONNECT:**

1. Shake well before using.
2. Connect sprayer to hose. Be sure larger green ON/OFF switch located at hose end is set to "OFF"
3. Turn on water.
4. Activate smaller green switch at sprayer opening to "OPEN" position. (Coin or key may be needed to activate switch.)

**SPRAY:**

1. To begin spraying, point nozzle in the direction you want to spray.
2. Turn larger green ON/OFF switch at hose end counterclockwise to on position.
3. Spray evenly over measured area.

**FINISH:**

1. To stop spraying, turn larger green ON/OFF switch clockwise to "OFF".
2. Deactivate smaller green switch at sprayer opening to "CLOSED" position.
3. Turn off water.
4. Relieve water pressure by turning larger green ON/OFF switch counterclockwise to on position until water slows to a drip. Then, turn same ON/OFF switch back to "OFF".
5. Disconnect sprayer from hose.

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