



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

August 9, 2018

Audra Star  
Assistant Director- Regulatory  
Bonide Products, Inc.  
6301 Sutliff Road  
Oriskany, NY 13424

Subject: Notification per PRN 98-10 – Addition of optional sprayer head directions  
Product Name: Bonide Permakil RTU Permethrin Spray  
EPA Registration Number: 4-358  
Application Date: June 27, 2018  
Decision Number: 542472

Dear Ms. Audra Star:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped “Notification” and will be placed in our records.

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.

If you have any questions, you may contact Letu Kassa at 703-347-0462 or via email at [kassa.letu@epa.gov](mailto:kassa.letu@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to be 'E. Fertich', written in a cursive style.

for

Elizabeth Fertich, Product Manager 4  
Invertebrate & Vertebrate Branch 1  
Registration Division (7505P)  
Office of Pesticide Programs



# PERMAKIL RTU PERMETHRIN SPRAY

[Additional Brand Name: Bonide Permethrin Spray Ready-to-Use; Bonide Bedbug Killer; Bedbug Killer; Got Pests...get REVENGE Horse & Stable Fly Spray Ready to Use; Got Pests...get REVENGE Barn & Stable Fly Spray Ready to Use;



Horse & Stable Fly Spray Ready to Use;



Barn & Stable Fly Spray Ready to

Use]

### Optional Marketing Statements:

For Use on Roses, Begonias, Violets, and Other Listed Ornamental Plants

For Residential Indoor and Outdoor Use Only

Kills Fire Ants

For Control of Fleas, Brown Dog Ticks, Deer Ticks and Lice on Premises and Dogs

Controls Fleas and Ticks on Dogs for 35 Days and Aids in Control of Ticks on Dogs for an Additional 2 Weeks

Controls Insect Pests on Vegetables and Flower Gardens

To Control Pests of Non-Commercial Livestock

Provides 60 Day Control of Cockroaches, Fleas and Stored Product Pests

Protects Travel Luggage from "Pick Up" of Bedbugs and other Listed Insects

Kills on contact

Odorless and Nonstaining

Waterbased

Keeps working for up to 4 weeks

- Protect [Horses], [Cattle (beef & dairy)], [Beef & Dairy Cattle], [Goats], [Sheep], and [Hogs], [Swine] from [Horn Flies], [Face Flies], [House Flies], [Stable Flies], [Horse Flies], [Deer Flies], [Mosquitoes], [Gnats] and [Blood-sucking Lice].
- Spray directly on Livestock
- Insecticide for [Horses], [Cattle (beef & dairy)], [Goats], [Sheep], and [Hogs].
- Also [controls] [kills] [Fleas], [Ticks] and [Lice] on Dogs
- [Also] [controls] [kills] Poultry Lice and [Mites] [Bedbugs]
- For use in Poultry houses and on birds
- Water-based Formula
- No Oily Residue
- Easy to Use
- Easy to use [Battery] Power Sprayer
- Includes [Battery] Powered Sprayer
- Use with [Battery] Powered Sprayer

### NOTIFICATION

4-358

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

08/09/2018

### ACTIVE INGREDIENT:

Permethrin (CAS # 52645-53-1)..... 0.50%

OTHER INGREDIENTS:..... 99.50%

TOTAL ..... 100.00%

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

See back/side/other panel(s) for additional precautionary statements.

**NET CONTENTS:** \_\_\_\_\_

[BACK/SIDE/OTHER PANEL(S)]

**READ ENTIRE LABEL BEFORE EACH USE.**

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION:** Wash thoroughly after handling and before smoking or eating.

Sensitivities may occur after using ANY pesticide product for pets. If signs of sensitivity occur bathe your pet with mild soap and rinse with large amounts of water. If signs continue, consult a veterinarian immediately.

**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 water. 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. 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 actively visiting the treatment area.

**DIRECTIONS FOR USE**

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

**SHAKE WELL BEFORE USING**

**Use Restrictions**

Except when applying to pets, companion animals or non-commercial livestock, do not enter or allow others to enter until sprays have dried. Except when applying to pets, companion animals or non-commercial livestock, do not apply this product in a way that will contact adults, children or pets, either directly or through drift. Avoid contamination of feed and foodstuffs. Remove pets and birds, and cover fish aquaria before use.

Affix trigger sprayer to container for application. Do not transfer to another container.

**[Optional For Use with EZ Sprayer]**

**EZ Connect Sprayer [Sprayer directions]**

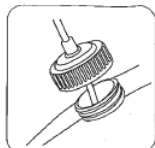
- Remove sprayer. Pull cord ALL THE WAY OUT.
- Remove top from cap on bottle.
- Insert (color) plug into spout on cap until it clicks.
- Twist nozzle on sprayer to the spray position.

## [Optional For Use with Battery Powered Sprayer]

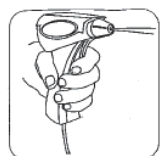
### Directions for use with Battery Powered Sprayer [Sprayer directions]



- Remove sprayer from storage holster.
- Slide safety lock to the LOCK position.



- Unwind pickup tube on the sprayer.
- Remove cap and seal from bottle.
- Insert pickup tube in bottle and screw sprayer cap onto bottle.



- Slide safety lock to the ON position.
- Gently squeeze the trigger to dispense fluid. The sprayer may require several seconds for the fluid to prime.
- After use, return to LOCK position.

For travelers who want to protect their luggage from “picking up” listed insects such as bedbugs, spray the outer and inner surfaces of luggage with a light spray mist of this product. Allow the luggage to completely dry before use.

### INDOOR APPLICATION

For spot application only. Not for broadcast use. Do not use as a space spray indoors. In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food/feed should be covered or removed. 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 the product to enter any drain during or after application.

### SURFACE SPRAYING:

To control Cockroaches, Waterbugs, Palmetto Bugs, Scorpions, Millipedes, Centipedes, Sowbugs, Pillbugs, Ants, Silverfish, Firebrats, Spiders, Crickets, Clover Mites, Cheese Mites, Granary Weevils, Rice Weevils, Confused Flour Beetles, Rust Red Flour Beetles, Drugstore Beetle, Meal Worms, Grain Mites and Cadelles:

Direct the spray into hiding places, cracks, crevices, behind shelves and drawers. For silverfish, spray bookcase. For ants, spray trails, nests and points of entry.

To control Carpet Beetles: Spray edges of carpeting and under carpeting and rugs. Make localized application to floor covering and baseboard, molding, and floor. Repeat treatment as needed.

To control Bedbugs: Spray mattresses lightly, particularly around tufts and seams. Take beds apart and spray in all joints. Treat baseboards, moldings and floor. Allow all treated articles to dry thoroughly before use.

To control Fleas (adult and larvae) and Ticks, including Ticks that may carry Lyme disease (adult and larvae): Thoroughly spray infested areas, pet beds, resting quarters, nearby cracks and crevices, along and behind baseboard, molding, window and door frames, and entire areas of floor and floor covering. Fresh bedding should be placed in animal quarters following treatment. Repeat treatment as needed. Allow to dry thoroughly before allowing pets to contact treated areas.

To control Clothes Moths: Remove any infested articles from storage, brush thoroughly, and air for several hours in sunlight, if possible. Apply spray liberally to empty chests, closets, bureaus and other storage directing the spray into cracks, joints and crevices. After airing, infested articles may be treated lightly, keeping nozzle at least three feet from fabric to avoid staining.

To kill Lice and Louse Eggs: Spray in an inconspicuous area to test for possible staining or discoloration. Inspect again after drying, then proceed to spray entire area to be treated. Spray from a distance of 8 to 10 inches. Treat only those garments and parts of bedding, including mattresses and furniture that cannot be either laundered or dry cleaned. Allow all treated articles to dry thoroughly before use.

#### ON COMPANION ANIMALS AND NON-COMMERCIAL LIVESTOCK

To protect cattle (beef and dairy), goats, sheep, hogs and horses from 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.

To control 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 necessary to give continued protection.

To control 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 if required.

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

To control Bedbugs and Mites in poultry houses: Spray crevices of roost poles, cracks in walls, and cracks in nests where the bedbugs and mites hide.

USE ONLY ON DOGS. DO NOT USE ON CATS. Do not repeat treatment for seven (7) days. Do not use on puppies under (12) weeks. Consult a veterinarian before using this product on debilitated, aged, pregnant, nursing or medicated animals.

To control Fleas, Ticks, and Lice: 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. 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. Repeat as necessary.

In case of an emergency, call 1-800-548-2423 (Animal Poison Control Center).

#### OUTDOOR APPLICATION

Do not water the treated area to the point of runoff. Do not make applications during rain. 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) Applications 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. Not for use in outdoor residential misting systems.

#### TO CONTROL TICKS, INCLUDING TICKS WHICH MAY CARRY LYME DISEASE (PERIMETER TREATMENT):

Use Bonide Permakil RTU Permethrin Spray as a residual treatment to control Ticks including the Deer Tick (*Ixodes dammini*), Lone Star Tick (*Amblyomma americanum*), Brown Dog Tick (*Rhipicephalus sanguineus*), American Dog Tick (*Dermacentor variabilis*) and Western Black-legged Tick (*Ixodes pacificus*).

For each area listed below apply until surface is wet (approximately 1 gal/750-1000 sq. ft.).

Treat around windows and doors, porches, screens, eaves, patios, garages, under stairways, and in crawl spaces where these pests may enter.

Treat a band of vegetation and leaf litter 6 to 10 feet wide around and the outside of buildings to help control ticks occurring there.

To help control ticks in outdoor activity areas, treat a band of vegetation and leaf litter 6 to 10 feet wide and adjacent to activity areas, especially where dense vegetation occurs.

**TO CONTROL FIRE ANTS:** Apply 1 gallon as a gentle rain to each fire ant mound using a sprinkler can or other applicator. Thoroughly wet the mound and surrounding area to a 4 foot diameter. For best results, apply in cool weather, 65-80 degrees 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. Do not use equipment that produces a pressurized spray as pressurized sprays may disturb fire ants and cause migration, reducing product effectiveness.

**PESTS ON OUTSIDE SURFACES OF BUILDINGS:** Use this product to control ants, clover mites, crickets, earwigs, millipedes and sowbugs (pillbugs) on the outside surfaces of buildings. To help prevent infestation of buildings, treat the building foundation to a height of 3 feet where pests are and may find entrance. Also, apply as a spot treatment to outside surfaces of buildings, including porches, screens, window frames, eaves, patios, garages, refuse dumps and other areas where these pests congregate or have been seen. Repeat treatment as needed to maintain effectiveness.

#### HOUSE FLIES, MOSQUITOES, CLUSTER FLIES, GNATS, FLYING MOTHS OUTDOORS:

For outdoor 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. Repeat as necessary.

**ANTS, LONE STAR TICKS, CRICKETS, FLEAS AND EARWIGS OUTDOORS:**

For treatment of localized infestations of these insects in outdoor areas where there are weeds or bushy non-crop areas, spray infested areas thoroughly. For ants, thoroughly wet hills and runways. Repeat applications as infestations warrant and as reinfestations occur.

**WASPS, HORNETS, YELLOW JACKETS, BEES OUTDOORS:** Application should be made in late evening when insects are at rest. Aim spray at nest openings in ground, bushes and in cracks and crevices which may harbor nests, saturating nest openings and contacting as many insects as possible.

**FOR CONTROL OF GARDEN INSECTS:**

For use on roses, dahlias, aster and other ornamentals to kill JAPANESE BEETLES hit by spray as well as Whiteflies, Aphids, Exposed Thrip, Spiders, Red Mites and Leafminers. May be used on plants as a multi-purpose spray in small gardens and for spot treatments of incipient insect infestations to prevent spreading in large garden areas.

May also be used on other plants such as African violets, asters, azaleas, begonias, camellias, carnations, chrysanthemums, dahlias, dephiniums, dogwoods, English ivy, eunonymus, fuschia, geraniums, crassula, grape vines, Kentia palms, laurels, marigolds, rhododendrons, roses, rubber plants, snapdragons, stocks, wandering Jews, and zinnia.

Effective when used as directed against Whiteflies, Aphids, Spider and Red Mites, Exposed Thrips, Lace Bugs, Japanese Beetles, Pavement Ants, Clover Mites, and Armyworms.

When spraying plants, do not operate closer than 18 inches. Use sweeping motion. Be cautious about wetting a tender foliage, young plants and new growth. Do not spray plants when temperatures exceed 90 degrees F. Contact insects directly whenever possible. Repeat treatment as infestations occur.

**DIRECTIONS FOR USE ON VEGETABLES, FRUITS, AND NUT TREES:**

For backyard gardens only.

Apply 1 quart of this product to 110 square feet, (or 1 gallon to 440 sq. ft.) of surface area. Thorough coverage of all plants is important. Begin applications when insects first appear. Repeat applications as needed or as noted on the following chart:

VEGETABLE	TARGET PEST(S)	REMARKS
Asparagus (pre-harvest)	Cutworm Asparagus	Apply for uniform coverage as needed. Do not apply more than 4 applications per crop. Can be applied up to 3 days prior to harvest.
(post-harvest)	Larval stages of Asparagus Beetle,	Treat ferns or bush growth after spear harvest



	Tarnished Plant Bugs, Lygus Bugs, and Adult Japanese Beetle	when insects are present.
Celery	Vegetable Leaf Miner, Cabbage Looper, Black and Granulate Cutworm, Fall, Beet and Southern Armyworm	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.
Cole Crops: Broccoli Brussels Sprouts Cabbage Cauliflower	Beet Armyworm, Diamond Back Moth, Imported Cabbageworm, Cabbage Aphid, Cabbage Looper	Apply every 5 days or as needed. Can be applied up to one day prior to harvest. Do not make more than 8 applications on Cauliflower, Brussels Sprouts, and Broccoli and 10 applications to Cabbage.
Eggplant	Colorado Potato Beetle, Vegetable Leafminer	Apply for uniform coverage as needed. Do not exceed 16 applications. Can be applied up to 3 days prior to harvest.
Horseradish (Foliar application)	Imported Crucifer Weevil	Apply as needed. Do not exceed 3 foliar applications. Can be applied up to 22 days prior to harvest.
Head Lettuce only (Do not use on Leaf Lettuce)	Cabbage Looper, Alfalfa Looper, Beet Armyworm, Corn Ear Worm and Tobacco Budworm	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.
Potatoes	Beet Armyworm, Colorado Potato Beetle, Potato Leafhopper, Potato Flea Beetle, Aster Leafhopper, Potato Aphid, Potato Tuberworm, Cabbage Looper, Cutworms, European Corn Borer, Potato Psyllid, Tarnished Plant Bug	Apply as needed. Do not apply more than 12 applications. Can be applied up to 7 days prior to harvest.
Peppers	Vegetable Leafminer, Cabbage Looper, Flea Beetle, Corn Earworm, Pepper Weevil, European Corn Borer	Apply as needed, but not more than 8 sprays per season. Can be applied up to 3 days prior to harvest.
Spinach	Beet Armyworm, Corn Earworm, Cabbage Looper, Cutworms, European Corn Borer, Green Cloverworm and 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.
Sweet Corn	Corn Earworm, European Corn Borer, Fall Armyworm, Southern Armyworm	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.
TREES (FRUIT OR NUT)	TARGET PEST(S)	REMARKS
Almonds	Navel Orange Worm, Peach Twig Borer	Apply when insects appear. 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	Plum Curculio, Redbanded Leafroller, Rosyapple Aphid, Spotted Tentiform Leafminer, Tarnished Plant Bug, White Apple Leafhopper, Oblique-banded Leafroller, Green Fruitworm	Apply when insects appear. Repeat as required to maintain control. Do not make more than 3 applications per season. Do not apply after petal fall.
Peaches	Lesser Peachtree Borer, Peach Twig Borer, Plum Curculio, Tarnished Plant Bug, Green Fruitworm, Oriental Fruit Moth	Apply when insects appear. 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. Add if desired 8 oz. of Bonide All Season's oil to each gallon of this product. Do not make more than 2 applications per season.

(summer)	Pear Psylla, Green Fruitworm and Codling Moth	Apply when needed. Do not apply more than 3 applications per season. Can be applied up to 14 days prior to harvest.
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### STORAGE AND DISPOSAL

**Pesticide Storage:** Store and transport in an upright position. Store in a cool dry area inaccessible to children or pets.

**Pesticide Disposal:** *If partly filled* – Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

**Container Disposal:** *If empty* – Nonrefillable container. Do not reuse or refill this container. Place in trash or offer for recycling if available.

For information on pesticide products (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.

To the extent consistent with applicable law, buyer assumes all risks of use, storage or handling of this product not in strict accordance with directions given herewith.

[Batch Code to be inserted at production]

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Manufactured by

Bonide Products, Inc.  
6301 Sutliff Road  
Oriskany, NY 13424