

73049-301

3/28/2011

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Mr. Nasser Assaf, Ph.D.  
Valent BioSciences  
870 Technology Way, Suite 100  
Libertyville, IL 60048

MAR 28 2011

Dear Dr. Assaf:

Subject: Amendment- clarification of efficacy claims  
Permanone Multi- Use Insecticide Spray  
EPA Registration Number 73049-301  
Your submission dated March 16, 2011

The application referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable.

A copy of the label is enclosed for your records.

If you have any questions regarding this action, please contact Linda A. DeLuise of my team at (703) 305-5428.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Linda A. DeLuise".

Richard Gebken  
Product Manager (10)  
Insecticide Branch  
Registration Division (7505P)

Enclosure

# PERMANONE® MULTI-USE INSECTICIDE SPRAY

- ~~[Contains The Synthetic Pyrethroid Permanone®]~~
- Controls Residential, Industrial And Garden Insects
- For Treatment Of Clothing, Nets, Sleeping Bags & Backpacks
- Kills & Repels Mosquitoes And Ticks
- Controls Ticks That Can Cause Lyme Disease
- Repels Ticks That Can Cause Lyme Disease
- One Clothing [Fabric] Treatment Lasts 2 Weeks!
- For Use On Dogs And On Premises To Control Fleas And Ticks
- Controls Fleas And Ticks On Dogs For 14 Days
- A Water-Based Aerosol
- Controls Pests For Up To Four Weeks
- Kills Lice And Their Eggs On Mattresses, Furniture, Car Interior And Other Non-Washable Items
- Kills [Helps Control] House Dust Mites In Carpets, Curtains And On Upholstery
- Controls [Helps Control] House Dust Mites (Dermatophogoides spp.) For Up To 8 Weeks [2 Months, 60 Days] In Carpets, Curtains And On Upholstery
- Controls House [Helps Control] Dust Mites That May Cause Asthma, Hay Fever, Rhinitis, Watery Eyes, Sneezing
- Permanone Is Effective In The Control Of Dust Mites
- Kills Screw Worms On Beef Cattle, Horses, And Sheep
- For Bedding And Furniture
- Not For Use On Humans
- Home Lice Control Spray For Bedding And Furniture
- 1-2-3 Lice Control System
- Step 3
- Kills: Houseflies, Fruit Flies, Mosquitoes, Gnats, Black Flies, Skipper Flies, Blow Flies and Small Flying Moths
- Kills: Cockroaches, Waterbugs, Palmetto Bugs, Silverfish, Firebrats, Crickets, Scorpions, Spiders, Millipedes, Centipedes, Sowbugs and Pillbugs
- Kills Ants
- Kills: Indian Meal Moths and Angoumois Grain Moths
- Kills: exposed stages of Confused Flour Beetles, Saw-Toothed Grain Beetles, Red Flour Beetles, Rice Weevils, Granary Weevils, Grain Mites
- Kills Carpet Beetles
- Kills Bedbugs
- Kills Fleas & Ticks (adults and larvae)]

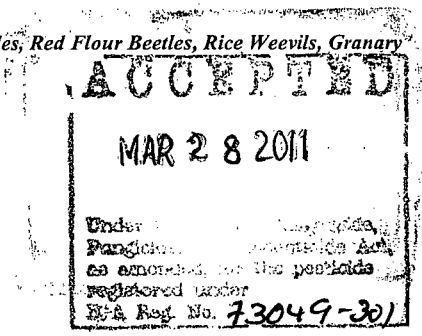
**ACTIVE INGREDIENT:**

Permethrin\* .....0.50 %

**OTHER INGREDIENTS\*\*:** ..... 99.50 %

100.00 %

\*Cis/trans ratio: Max. 55% (+/-) cis and Min. 45% (+/-) trans.  
\*\*Contains petroleum distillate.



**PRECAUCION AL CONSUMIDOR:** Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

**(TO THE USER:** If you cannot read English, do not use this product until the label has been fully explained to you.)

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**See Back [Side] Panel for Additional Precautions**

**EPA Reg. No. 73049-301**

**EPA Est. No.**

**NET CONTENTS:** [NET Weight: oz. (g)]

| <b>FIRST AID</b>   |  |
|--|--|
| Call a poison control center or doctor immediately for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For MEDICAL and TRANSPORT Emergencies ONLY, call 1-877-315-9819. For all other information, call 1-800-323-9597. [Toll free phone number language may be modified to fit company's policy] |  |
| <b>If Swallowed:</b>   | <ul style="list-style-type: none"> <li>• Immediately call a poison control center or doctor.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give any liquid to the person.</li> <li>• Do not give anything by mouth to an unconscious person.</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.</li> <li>• Remove contact lenses, if present, after the first minutes, then continue rinsing eye.</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 by mouth-to-mouth, if possible.</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> </ul>  |
| <b>NOTE TO PHYSICIAN</b>   |  |
| Contains petroleum distillate - vomiting may cause aspiration pneumonia.   |  |

### PRECAUTIONARY STATEMENTS

#### Hazards To Humans [and Domestic Animals]

#### CAUTION

Harmful if swallowed or absorbed through skin. Avoid inhalation of spray mist. Causes eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Avoid contamination of feed and foodstuffs. Remove pets and birds and cover fish aquaria before space spraying or surface applications. This product is not for use on humans. Vacate room after treatment and ventilate before reoccupying. Do not allow children or pets to contact treated areas until surfaces are dry.

[Products used exclusively indoors may omit the Environmental Hazards Statement.]

#### Environmental Hazards

This product is toxic to fish. Do not apply directly to any body of water. Do not contaminate water when disposing of equipment washwaters.

#### Physical or Chemical Hazards

Contents under pressure. Do not use or store near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F (54°C) may cause bursting.

#### DIRECTIONS FOR USE

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

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in ornamental gardens or parks, or on golf courses or lawns and grounds.

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 foods are served such as dining rooms, but excluding areas where foods may be prepared or held.

In the home, cover all food processing surfaces and utensils during treatment or thoroughly wash before use. Cover or remove exposed food. We recommend that those with asthma or severe allergies consult their doctor before using this product and have someone else apply this product.

Non-food areas are areas such as 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).

Application is prohibited directly into sewer 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.

[Products used exclusively indoors may omit the following statements.]

Do not make applications during rain. All outdoor application 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 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.

#### SHAKE WELL BEFORE USING

Remove protective cap, hold container upright and spray from a distance of 12 to 15 inches (8 to 10 inches for clothing, furniture and bedding). Test product on an inconspicuous area before applying. Spray until surface is slightly wet, but not to the point of run-off. Over application may cause damage. Will not stain surfaces or fabrics where water alone causes no damage.

**Houseflies, Fruit Flies, Mosquitoes, Gnats, Black Flies, Skipper Flies, Blow Flies and Small Flying Moths:** Close all doors and windows and spray room at the rate of 2 to 3 seconds per 1000 cubic feet. Direct spray to all parts of the room, especially windows and other light sources which attract these insects. Keep nozzle in constant motion. Retreat if infestation occurs, but not more than once every two weeks.

**Cockroaches, Waterbugs, Palmetto Bugs, Silverfish, Firebrats, Crickets, Scorpions, Spiders, Millipedes, Centipedes, Sowbugs and Pillbugs:** Spray into hiding places such as cracks and crevices, behind sinks, cabinets, along baseboards and floors, around drains and plumbing, hitting insects with spray when ever possible. Spray to the point of dampness but not run-off. Retreat if infestation occurs, but not more than once every two weeks.

**Ants:** Spray trails, nests and points of entry. Spray on ants where possible. Retreat if infestation occurs, but not more than once every two weeks.

**Indian Meal Moths, Angoumois Grain Moths:** Close doors and windows, direct spray into all parts of room especially around stored food product containers, pallets and darkened areas. Spray 7 to 10 seconds for each 1000 cubic feet of space. Keep area closed for 15 minutes following treatment. Spray to the point of dampness but not run-off. Retreat if infestation occurs, but not more than once every two weeks.

**EXPOSED STAGES OF Confused Flour Beetles, Saw-Toothed Grain Beetles, Red Flour Beetles, Rice Weevils, Granary Weevils, Grain Mites:** Spray into cracks and crevices, around cartons or containers or other areas where these insects tend to congregate. Spray 30 seconds for each 100 square feet of surface. Keep area closed for 45 minutes to 1 hour after treatment. Spray to the point of dampness but not run-off. Retreat if infestation occurs, but not more than once every two weeks. Infested stored food products in the home should be disposed of.

**Carpet Beetles:** Spray directly on beetles, floors, baseboards, shelves, and carpets. Spray to the point of dampness but not run-off. Retreat if infestation occurs, but not more than once every two weeks.

**Bedbugs:** Spray mattresses, particularly around tufts and seams. Take beds apart and spray into all joints. Treat baseboards, moldings and floors. If lice infestations should occur on humans, use a product labeled for use on humans. Spray to the point of dampness but not run-off. After mattress is dry, cover with mattress cover and sheet. Do not use mattress without cover. Retreat if infestation occurs, but not more than once every two weeks.

**TO CONTROL Clothes Moths and Carpet Beetles** on wool and other proteinaceous fibers: Remove 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 storages directing the spray into cracks, joints and crevices. Spray to the point of dampness but not run-off. After airing, infested articles may be treated by spraying lightly, keeping nozzle at least three feet from fabric to avoid staining.

**To Control [Kill] [Helps Control] House Dust Mites (Dermatophagoides spp.):** Permanone Multi-Use Insecticide Spray controls [Helps Control] house dust mites that may cause asthma, hay fever, rhinitis, watery eyes and sneezing. One treatment lasts for up to 8 weeks [2 months, 60 days]. On Upholstered Furniture - test fabric in an inconspicuous area to insure dyes will not bleed. Hold container upright with nozzle away from you. Depress valve and spray from a distance of 8 to 10 inches. Spray all fabric surfaces until damp. Spray to the point of dampness but not run-off. Do not use on delicate fabrics. Allow furniture to dry thoroughly before using. **On Carpets** - Spray over entire carpet until damp. Spray to the point of dampness but not run-off. Hold the nozzle approximately 12 to 18 inches from the carpet surface and spray in a sweeping motion. Use an overlapping pattern to insure total coverage. After application, brush the surface of the carpet with a broom or brush to insure deep penetration. Allow carpet to dry thoroughly before reentering the treated area. Drying time can be accelerated by using a fan. **On Mattresses** - spray the top, bottom and sides of mattresses until damp, paying particular attention to tufts and seams. Allow to dry thoroughly before using. After mattress is dry, cover with mattress cover and sheet. Do not use mattress without cover. Vacuum entire area once dry. Since vacuuming stirs dust up in the air those with allergies should have another person vacuum or should wear a dust mask and use vacuum with a high efficiency particulate (HEPA) filter.

**Fleas and Ticks (Adults and Larvae):** Remove and thoroughly clean or destroy pet bedding. Spray pet sleeping quarters, bed, entire floor and floor covering, with special attention to cracks and crevices around baseboards and window and door frames. Infested upholstered furniture may also be treated with this product. Spray to the point of dampness but not run-off. A test application should be made to upholstery or drapery fabrics in an inconspicuous place before use.

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[This product] is Step 3 in the [Company name's] Lice Control System.  
 Step 1: Kill lice with [Product Name]. Re-apply in 10 days.  
 Step 2: Comb out eggs & nits with [Product Name].  
 Step 3: Clean home. Use Permanone Multi-Use Insecticide Spray for non-washable items. Washables should be washed in hot water and dried in high heat.

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. Hold container upright with nozzle away from you. Depress valve and spray from a distance of 8 to 10 inches. Spray each square foot for three seconds. Spray to the point of dampness but not run-off. Allow all sprayed articles to dry thoroughly before use.  
 \*Spray only those garments and parts of bedding, including mattresses and furniture that cannot be either laundered or dry cleaned. Do not use on sheets or pillowcases.

**READ ENTIRE LABEL BEFORE EACH USE**  
**USE ONLY ON DOGS**

To control *Fleas*, *Ticks* and *Lice* on dogs. Starting at the tail, stroke against the lay of the hair, spraying the parted fur in short bursts, directly behind the hand to insure penetrating the coat. Dampen the fur up to the head. Retreat if infestation occurs, but not more than once every two weeks. Do not spray directly in/on eyes, mouth or genitalia of pets. Do not use on dogs under twelve (12) weeks old. Consult a veterinarian before using this product on medicated, debilitated, aged, pregnant or nursing animals. Sensitivities may occur after using any pesticide product for pets. If signs of sensitivity occur, bathe your pet with mild soap and rinse with large amounts of water. If signs continue, consult a veterinarian immediately.

**CLOTHING TREATMENT:**

**Clothing treatment only - do not apply to skin.**

For protection against *Ticks* (including those which may carry Lyme disease) and *Mosquitoes*, apply product as directed below. For further protection, use in conjunction with an insect repellent registered for direct application to the skin and utilize the following primary preventive measures. Avoid areas where the pests are found, wear appropriate protective clothing (light-colored, long-sleeved shirt and long pants tucked into socks) and inspect body daily for ticks. Pant cuffs should be worn inside the socks or footwear to ensure full protection against ticks.

**Initial Treatment Instructions:**

1. Select a well-ventilated outdoor area protected from wind and lay out the clothing to be treated (as complete outfit; shirt, trousers and socks).
2. Hold can upright about 6 to 8 inches from surface of the clothing and spray with a slow sweeping motion to lightly moisten the surface of the fabric.
3. Continue spraying over entire outfit, until a total treatment time of 60 seconds has elapsed and the outer surface of the fabric is moist enough to cause a slight color change or darkening. Pay special attention to socks, trouser cuffs and shirt cuffs.
4. Turn the clothing over and treat the other side as described in Steps 2 & 3.
5. Hang the treated clothing and allow to dry for at least 2 hours (4 hours under humid conditions) before wearing.
6. One can will treat one [two] complete outfit(s). Do not exceed recommended spraying times.

**Retreatment Instructions:**

This product contains an active ingredient which actually binds to the fabric being treated, providing residual protection which lasts a minimum of two weeks, and hold up through several machine washings. **DO NOT RETREAT CLOTHING MORE THAN ONCE EVERY TWO WEEKS. LAUNDRER CLOTHING AT LEAST ONCE BEFORE RETREATING.** For retreatment, follow instructions for initial treatment.

**TREATMENT OF NETS, TENTS, SLEEPING BAGS AND BACKPACKS:**

**Initial Treatment Instructions:** Do not treat inside of sleeping bag. Spray exterior surfaces of tent only.

Select a well-ventilated outdoor area protected from wind and lay out article to be treated. Hold can upright about 6 to 8 inches from surface of the article and spray with a slow sweeping motion to lightly moisten the surface of the fabric. Continue spraying over entire article, until the outer surface of the article is moist enough to cause a light color change or darkening. Turn the article over and treat the other side as described in steps 2 and 3 above for clothing treatment. Hang the treated article and allow to dry for at least 2 hours (4 hours under humid conditions) before using.

**Retreatment Instructions:**

This product contains an active ingredient which actually binds to the fabric being treated, providing residual protection which lasts a minimum of two weeks. **DO NOT RETREAT ARTICLES MORE THAN ONCE EVERY TWO WEEKS.** For retreatment, follow instructions for initial treatment.

**IN ANIMAL QUARTERS AND MILK ROOMS:** For rapid control of *Houseflies*, *Mosquitoes* and *Small Flying Moths*, close

windows and doors and spray at the rate of 2 seconds per 1000 cubic feet of space. For best results, keep area closed for 10 minutes after spraying. Do not remain in treated area and ventilate after treatment is completed. Do not contaminate animal feed or water during application.

**TO TREAT LIVESTOCK:** To protect beef cattle, dairy cattle, goats, sheep, hogs and horses from attacks of *Stable Flies*, *Horse Flies*, *Deer Flies*, *Face Flies*, *Houseflies*, *Horn Flies*, *Mosquitoes* and *Gnats*: Spray about 3 seconds on each side being careful to spray back, withers and forelegs thoroughly. To protect from *Face Flies*, spray the face and head, but do not spray into eyes. Repeat treatment when flies are troublesome.

**TO KILL *Screw Worms*** infesting beef cattle, horses, and sheep, hold can about 4 to 8 inches from area to be treated with nozzle pointed at wound. Spray the area until it is completely wet - three to ten seconds are usually enough. The area surrounding the wound should also be sprayed. This product is not recommended for use in deep wounds. Some strains of screw worms may develop resistance to pyrethroids. This will be observed by lack of response to treatment. Where pyrethroid resistance is known or suspected, this product should not be used.

**FOR SWINE:** Do not ship animals for slaughter within 5 days of last treatment.

**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. For control of *Bedbugs* and *Mites* in poultry houses, spray crevices of roost poles, cracks in walls and cracks in nests where the bedbugs and mites hide. Spray to the point of dampness but not run-off.

**FOR THE CONTROL OF GARDEN INSECTS:** For use on roses, dahlias, asters and other ornamentals to kill *Japanese Beetles* hit by spray, as well as *Whiteflies*, *Aphids*, *Exposed Thrips*, *Spider Mites*, *Red Mites* and *Leafminers*.

May be used on plants, as well 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, delphiniums, dogwood, English ivy, euonymus, fuschia, geraniums, crassula, grape vine, Kentia palm, laurel, marigolds, rhododendrons, roses, rubber plants, snapdragons, stocks, wandering Jews and zinnias.

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. Spray in one second bursts. Be cautious about wetting tender foliage, young plants and new growth. Do not spray plants when temperatures exceed 90°F (32°C). Over application may cause damage. Contact insects directly whenever possible. Retreat if infestation occurs, but not more than once every two weeks.

#### STORAGE AND DISPOSAL

**Storage:** Store in a cool, dry area away from [inaccessible to] children and pets and away from heat, sparks and open flame. Do not transport or store below 32°F (0°C). [Protect from freezing.] [Do not freeze.]

**Disposal:** Do Not Puncture or Incinerate. *If empty:* Place in trash or offer for recycling if available.

*If partly filled:* Call your local solid waste agency [or 1-877-315-9819] for disposal instructions.

[This container may be recycled in aerosol recycling centers. At present, there are only a few such centers in the country. Before offering for recycling, empty the can by using the product according to the label.]

**Purchaser assumes all responsibility for safety and use not in accordance with directions.**

#### IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following conditions, disclaimer of warranties and limitations of liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Valent BioSciences Corporation. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, VALENT BIOSCIENCES CORPORATION MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Valent BioSciences Corporation is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. To the extent consistent with applicable law, Valent BioSciences Corporation disclaims any liability whatsoever for special, incidental or consequential damages resulting from the use or handling of this product.

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