

73049-254

7/27/2012

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

JUL 27 2012

OFFICE OF  
CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Nasser A. Assaf, Ph.D  
Valent BioSciences Corporation  
870 Technology Way  
Libertyville, IL 60048

Subject: Amended Labeling to Add Pest  
Pyrenone General Purpose Aqueous Insecticide  
EPA Registration Number: 73049-254  
Application Dated: March 13, 2012  
Decision: 462560

Dear Dr. Assaf:

The label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

If you have any questions, please contact Melody Banks on 703 305-5413 or via E-mail @ [banks.melody@epa.gov](mailto:banks.melody@epa.gov).

Sincerely,

A handwritten signature in purple ink, appearing to read "Richard Gebken".

Richard Gebken  
Insecticide Branch  
Product Manager  
Registration Division (7504P)

Enclosures: Product Performance Review  
Product Performances Data Evaluation Records  
Stamped Copy of Product Label

# PYRENONE®

## GENERAL PURPOSE AQUEOUS INSECTICIDE

- [A Concentrated Pyrenone® Micro Emulsion
- Clear - Stable - Leaves No Oily Or Objectionable Residues
- Effective, Fast Acting Insecticide
- Kills And Repels Biting Flies
- For Use In Homes, Institutions, Restaurants, Food Processing Plants, Dairies, Livestock And Outdoors For Mosquito Control For Control Of Fleas And Brown Dog Ticks On Premises And On Pets
- Apply With Conventional Mechanical Or Compressed Air Equipment
- Multi-Purpose
- Multi-Bug Killer
- Kills Crawling & Flying Insects On Contact
- Contains Pyrethrin [Insecticide] Derived From Flowers
- Water Based
- Plant Spray Bug Killer
- House & Garden Insect Killer
- Flying & Crawling Insect Killer]

### ACTIVE INGREDIENTS

Pyrethrins .....	0.10%
Piperonyl Butoxide*.....	1.00%
<b>OTHER INGREDIENTS .....</b>	<b>.98.90%</b>
	100.00%

\*Equivalent to min. 0.8% (butylcarbityl) (6-propylpiperonyl) ether and 0.2% related compounds.

**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.)

EPA REG. NO. 73049-254

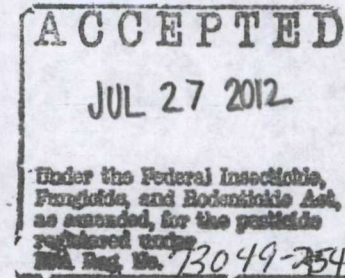
EPA EST. NO.

### KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
<b>If Swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a 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 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> <li>• Call a poison control center or doctor for further treatment advice.</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.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. In case of medical emergencies or health and safety inquiries or in case of fire, leaking or damaged containers, information may be obtained by calling 1-877-315-9819.	

See Side/Back Panel For Additional Precautions

NET CONTENTS:



**READ ENTIRE LABEL BEFORE EACH USE**  
**PET USE APPLIES TO USE ONLY ON DOGS AND CATS**

**PRECAUTIONARY STATEMENTS**  
**Hazards To Humans & Domestic Animals**

**CAUTION**

Harmful if swallowed. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse. Avoid contamination of feed and foodstuffs. Remove pets, birds and cover fish aquaria before space spraying or surface applications.

Consult a veterinarian before using this product on medicated, debilitated, aged, pregnant or nursing animals. Do not use on dogs or cats under 12 weeks. 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 product is toxic to fish. For terrestrial uses, do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes.

**Physical or Chemical Hazards**

Do not use this product on or around electrical equipment due to the possibility of shock hazard.

**DIRECTIONS FOR USE**

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

**General Use Directions**

**INDOOR APPLICATION:**

Use this product in food/feed processing establishments only when the plant is not in operation. Remove or cover food during treatment. Cover all food processing surfaces during treatment or thoroughly clean with potable water before using.

Do not use on surfaces that can be harmed or stained by water.

Vacate treated areas and ventilate before reoccupying.

For maximum effectiveness, a combination of spot, surface treatment and fogging is recommended.

**CONTACT SPRAY:** To kill ants (including carpenter, fire, harvester & pharaoh ants), centipedes, cockroaches (including American, German & Oriental cockroaches), fleas, spiders (including brown recluse, black widow & hobo spiders), ticks, (including deer, brown dog and American dog ticks), chiggers, black flies, deer flies, horse flies, house flies, mosquitoes, gnats, biting midges, wasps and yellow jackets: Spray where insects congregate and individual pests when seen. Spray [1-2 pumps of trigger] [1-3 grams] contacting insects directly. Insects contacted by spray will be killed.

**SURFACE SPRAYING:** To control *Cockroaches, Palmetto Bugs, Ants, Silverfish, Spiders, Crickets, Clovermites, Cheese Mites, Earwigs, Sowbugs, Box Elder Bugs, Centipedes, Granary Weevils, Rice Weevils, Confused Flour Beetles, Rust Red Flour Beetles, Saw-Toothed Grain Beetles, Spider Beetles, Cigarette Beetles, Drugstore Beetles, Meal Worms, Grain Mites and Cadelles:* Use a good sprayer adjusted to a coarse wet spray. Direct the spray into hiding places, cracks and crevices, under pallets, around containers of stored foods, around the base of machinery, behind shelves and drawers, behind and beneath sinks, stoves, refrigerators and cabinets, along baseboards, around door and window frames, into dark corners and in and around garbage compactors, garbage chutes and cans. For *Silverfish*, spray bookcases.

For *Ants*, spray trails, nests and points of entry. If surface application only is to be used, spray floors and other surfaces applying at a rate of 1 gallon to 750 square feet of surface.

In case of infested foods in cabinets, dispose of the infested material. Remove all contents and clean thoroughly. Spray interior surfaces of empty cabinets thoroughly. After spray has dried, cover shelves with paper or otherwise protect foods from direct contact with sprayed surfaces.

**TO CONTROL Carpet Beetles:** Spray edges of carpeting and under carpeting and rugs. Make localized application to floor and baseboards. Spray directly into cracks, crevices and infested areas of shelving. To avoid the possibility of staining, test in an inconspicuous area and allow to dry prior to treatment.

**TO CONTROL Bedbugs:** Remove linens prior to treatment. Spray mattresses lightly, particularly around tufts and seams. Take beds apart and spray in all joints. Treat baseboards, moldings and floors. Place clean linens on bed after allowing mattress to dry.

**PET AREAS:** To control *Fleas* and *Brown Dog Ticks* on premises: Thoroughly spray infested areas, pet beds, resting quarters, nearby cracks and crevices, along and behind baseboards, moldings, window and door frames, and entire areas of floor and floor covering. Place fresh bedding in animal quarters following treatment. Concurrent treatment of animals is recommended.

**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 storages 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. Test delicate fabrics in an inconspicuous area prior to treatment.

**SPACE SPRAYING** Close doors, windows and transoms and shut off ventilating systems. Apply with a good machine adjusted to deliver a fine mist or fog. For rapid control of *Houseflies*, *Fruit Flies*, *Gnats*, *Mosquitoes*, *Skipper Flies*, *Wasps*, *Hornets*, *Argemones*, *Grain Moths*, *Mediterranean Flour Moths*, *Indianmeal Moths* and *Tobacco Moths*. Direct spray at an upward angle distributing it uniformly throughout the entire area at a rate of 3.6 ounces per 1000 cubic feet of space. Do not remain in treated areas. If insects have not dropped to floor in 3 minutes repeat spraying as quantity sprayed was insufficient. Ventilate the area after treatment is completed. To aid in the prevention of breeding spray on standing water and in garbage pails.

**FOGGING** To kill exposed or accessible stages of the above named crawling insects use a rate of 1 gallon to 20,000 to 40,000 cubic feet of space. Contact insects directly whenever possible.

**ON LIVESTOCK** To protect cattle, horses and hogs from *Horn Flies*, *Houseflies*, *Mosquitoes* and *Gnats* apply a light mist sufficient to wet the surface of the hair.

**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 2 to 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.

**Fleas and Ticks ON DOGS AND CATS** Start spraying at the animal's head avoiding the eyes, nose and mouth as you spray. Make sure the animal's entire body is covered including the legs, under body and tail. While spraying fluff the hair so that the spray will penetrate the skin. Make sure spray wets thoroughly. Avoid contact with genitalia. Repeat application every week if necessary.

**Adult Mosquito CONTROL** Apply as a fine mist to thoroughly treat the entire area. For best results treat when the wind velocity does not exceed 5 miles per hour. Treat shrubbery or vegetation where *Mosquitoes* may rest (low marshy places, stagnant pools or ponds and shore lines). Apply at a rate of 2.5 pints per acre (0.1 ounce per 100 square feet). Using truck mounted conventional misting equipment traveling at 5 mph to treat a 300 foot swath calibrate equipment to deliver 0.9 gallon per minute.

**OUTDOORS (Camping, fishing, hunting)** Spray outer clothing and surroundings. Repels *Biting Flies*, *Mosquitoes*, *Midges* and *Gnats*. If sprayed every hour or so will aid in keeping surroundings free from *Mosquitoes*. If in rare cases skin irritation results avoid continued contact. Do not pour or squirt use a good sprayer which will throw a heavy fine mist.

#### DIRECTIONS FOR USE CONSUMER LABELING

#### SHAKE WELL BEFORE USE

#### TO KILL

**CRAWLING INSECTS** *Cockroaches*, *Silverfish*, *Sowbugs*, *Ants*, *Crickets*, *Earwigs*, *Grain Mites*, *Clovermites*, *Spiders*, *Box Elder Bugs*, *Centipedes*. Turn sprayer nozzle to stream position and spray directly into cracks, crevices and other hiding places along baseboards, hitting as many bugs as possible. Keep about three feet away from walls, fabrics and furniture.

**FLYING INSECTS** *Flies*, *Houseflies*, *Mosquitoes*, *Gnats*, *Mediterranean Flour Moths*, *Small Flying Moths*. Turn sprayer nozzle to spray position. Keep about three feet away from walls, fabrics and furniture.

**Wasps & Hornets** Turn sprayer nozzle to stream position. Spray directly on insects whenever possible. Apply a wet spray after dark when all insects have returned to their nests.

**CONTACT SPRAY** To kill ants (including carpenter, fire, harvester & pharaoh ants), centipedes, cockroaches (including American, German & Oriental cockroaches), fleas, spiders (including brown recluse, black widow & hobo spiders), ticks (including deer, brown dog and meadow ticks), chiggers, black flies, deer flies, horse flies, house flies, mosquitoes, gnats, biting midges, wasps and yellow jackets. Spray where insects congregate and individual pests when seen. Spray 1-2 pumps of trigger contacting insects directly. Insects contacted by spray will be killed.

**GARDEN INSECTS ON HOUSE PLANTS AND ORNAMENTAL PLANTS OUTDOORS** Turn sprayer nozzle to spray position. Direct spray so that upper and lower leaf surfaces are contacted. To control *Aphids*, *Bagworms*, *Thrips*, *Flea Beetles*, *Japanese Beetles*, *Lace Bug*, *Leaf Hoppers*, *Leafhoppers*, *Mimosa Webworm Larvae*, *Plant Bugs* and *Whiteflies* use fine mist spray about 18 to 24 inches from infested plants. Use caution on new growth and tender foliage. Avoid spraying plants when temperature exceeds 85 F. Spray when air is still. Avoid heavy wetting.

**Fleas and Ticks ON DOGS AND CATS** Turn sprayer nozzle to spray position. Start spraying at the animal's head avoiding the eye, nose and mouth as you spray. Make sure the animal's entire body is covered including the legs, underbody and tail. While spraying fluff the hair so that the spray will penetrate the skin. Make sure spray wets thoroughly. Avoid contact with genitalia. Repeat application every week if necessary.

PET AREAS To control *Fleas* and *Brown Dog Ticks* on premises Turn sprayer nozzle to spray position Thoroughly spray infested areas pet beds resting quarters nearby cracks and crevices along and behind baseboards moldings window and door frames and entire areas of floor and floor covering Place fresh bedding in animal quarters following treatment Concurrent treatment of animals is recommended

**STORAGE AND DISPOSAL**

**CONTAINERS LARGER THAN ONE GALLON**

Do not contaminate water food or feed by storage or disposal

**Pesticide Storage and Spill Procedures** Store upright at room temperature Avoid exposure to extreme temperatures In case of spill or leakage soak up with an absorbent material such as sand sawdust earth fuller s earth etc Dispose of with chemical waste Protect from freezing

**Pesticide Disposal** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility

**Container Disposal** Triple rinse (or equivalent) then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by other approved state and local procedures

**CONTAINERS ONE GALLON OR LESS**

**Storage** Store in original container in a cool dry place inaccessible to children and pets Protect from freezing

**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

**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 should 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

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Py e o a e g s t d t r d m k of Bay AG

**Valent BioSciences Corporation**

*Environmental Science Division*

870 Technology Way

Libertyville IL 60048

List No 73049254

02 0507/R2

*Alternate Front Panel Plugs For Consumer Type Labeling*

*[Leaves No [Lingering] [Objectionable] [Insecticide] Odor*

*Leaves No Objectionable Only Or Sticky Residue*

*For Control Of Fleas And Brown Dog Ticks*

*For Use On Pets*

*Can Be Used On Pets*

*Kills And Repels [Biting] Flies*

*Effective*

*Works Fast*

*Fast Acting*

*Leaves No Only Stains*

*[Leaves] No Sticky Mess*

*Unscented*

*Non Aerosol*

*Easy To Use Trigger Pump*

*Convenient Trigger Pump*

*No Aerosol Fumes*

*Kills With Pyrethrin [Insecticide]*

*Pyrethrin [Insecticide] Is Made From Flowers*

*For Use On Plants And Shrubs]*

BRACKETS [ ] DENOTE OPTIONAL COPY IN ADDITION TO ANY SUBSET OF THE DIRECTIONS FOR USE