



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 6 2012

**Subject: Amended Reregistration Label Permanone® General Purpose Aqueous Insecticide  
D4130567  
EPA Registration No. 73049-303**

Dear Dr. Assaf:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the reregistration of the referenced product in connection with the **Permethrin RED**, and has concluded that your submission is acceptable.

**PLEASE NOTE:** This product is not being reregistered under sections 3(c)5 and 4(g) of FIFRA at this time.

**PLEASE NOTE:** That the record for this product currently contains the Confidential Statements of Formulation (CSFs) listed below. Any previously dated CSF's are superseded.

- Basic CSF, dated: March 12, 2010

A copy of your label stamped Acceptable is enclosed along with copies of the acute toxicity and product chemistry reviews completed for the subject product. Products shipped after 12 months from the date of this amendment or the next printing of the label whichever occurs first, must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e).

If you have any questions about this letter, please contact Linda A. DeLuise at (703) 305-5428 or via e-mail at [deluise.linda@epa.gov](mailto:deluise.linda@epa.gov) or Mr. Richard J. Gebken at (703) 305-6701 or via e-mail at [Gebken.Richard@epa.gov](mailto:Gebken.Richard@epa.gov).

Sincerely yours,

A handwritten signature in black ink, appearing to be "Richard Gebken".

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

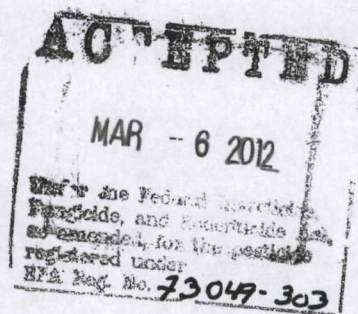
Enclosures: Label stamped Accepted dated: March 6, 2012



# PERMANONE®

## GENERAL PURPOSE

## AQUEOUS INSECTICIDE



- *[For Domestic Use both Indoors And Outdoors]*
- *A Ready-To-Use Permanone Stable Emulsion Insecticide*
- *For Control Of Fleas, Brown Dog Ticks And Lice On Premises And On Dogs*
- *For Control Of Ticks Which May Cause Lyme Disease On Premises*
- *Controls Fleas And Ticks On Dogs For 14 Days*
- *Provides 60-Day (Two Months) Control Of Cockroaches*
- *Provides 60-Day (Two Months) Control Of Fleas*
- *Provides 60-Day (Two Months) Control Of Stored Product Pests*
- *For Livestock And Premise Use]*

**ACTIVE INGREDIENT:**

Permethrin\*

0.50%

**OTHER INGREDIENTS:**

99.50%

100.00%

\* Cis/trans ratio: min. 35% (+/-) cis and max. 65% (+/-) trans.

**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. 73049-303

EPA EST. NO.

**KEEP OUT OF REACH OF CHILDREN****CAUTION**

See (back) (side) (rear) panel for additional precautions.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For information on this product (including health concerns, medical emergencies or pesticide incidents), you may call 1-877-315-9819.

NET CONTENTS:



**READ ENTIRE LABEL BEFORE EACH USE  
PET USE APPLIES TO USE ONLY ON DOGS****PRECAUTIONARY STATEMENTS  
Hazards To Humans & Domestic Animals****CAUTION**

Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

**Environmental Hazards**

This product 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 waters. 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.

**Use Restrictions**

- Except when applying to dogs [or livestock], do not enter or allow adults, children, or pets to enter the treated area until sprays have dried.
- Except when applying to dogs [or livestock], do not apply this product in a way that will contact adults, children, or pets either directly or through drift.
- Do not apply as a broadcast treatment to indoor surfaces at residential sites, including nurseries, day care centers, schools, hospitals, nursing homes.
- In the home, cover all food processing surfaces and utensils during treatment or thoroughly wash before use. Cover or remove exposed food/feed.
- Do not contaminate food or feedstuffs.
- Do not contaminate animal feed or water during application.
- Remove pets and birds and cover fish aquaria before spraying and surface applications.
- Do not use on electrical equipment or on surfaces that can be harmed or stained by water.
- 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.
- Not for use in outdoor residential misting systems.
- [Alternate text - For pet care: Do not apply to pets less than 12 weeks old. Consult a veterinarian before apply 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.
- [Alternate text - When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.]

[Additional text for - Outdoor use products]

- [Do not water the treated area to the point of run-off.
- 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.]



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Affix trigger, pump or other type sprayer to container for application. Do not transfer to another container.

### SHAKE WELL BEFORE USING

### INDOOR APPLICATION

For spot application only. Do not use as a space spray indoors.

#### SURFACE SPRAYING:

For 60-Day [Two Months] control of *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 Beetles, Meal Worms, Grain Mites* and *Cadelles*: Direct the spray into hiding places, cracks and crevices, and behind shelves and drawers. For *Silverfish*, spray bookcases. 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 and baseboards. Spray directly into cracks, crevices and infested areas of shelving.

TO CONTROL *Bedbugs*: Spray mattresses lightly, particularly around tufts and seams. Take beds apart and spray in all joints. Treat baseboards, moldings and floors.

TO CONTROL *Fleas (adults and larvae)* and *Ticks, including Ticks which may carry Lyme disease (adults and larvae)*: 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. Fresh bedding should be placed in animal quarters following treatment. 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 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.

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.

### FOR DIRECT APPLICATION TO NON-DOMESTIC ANIMALS/LIVESTOCK:

TO PROTECT CATTLE (BEEF AND DAIRY), GOATS, SHEEP, HOGS AND HORSES FROM *Horn Flies, Face Flies, Houseflies, 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, crack in walls, and cracks in nests where the *Bedbugs* and *Mites* hide.

### FOR DIRECT APPLICATION TO DOGS (OVER 12 WEEKS OF AGE):

TO CONTROL *Fleas, Ticks*, and *Lice*:

Hold the container upright. Spray at a distance of 8-12 inches. Starting at the tail, spray over entire hair coat while moving the dispenser rapidly; making sure the coat is thoroughly wetted to the skin. While spraying, fluff the hair so the spray will penetrate to the skin. Make sure spray wets ticks thoroughly. Spray against the lay of the hair, roughing the hair on long-haired dogs. Do not spray into the eyes, face or genitalia. For best results in killing ticks, spray



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directly on the tick. Allow dog to air dry or blow dry. Do not towel dry. Do not reapply more than once every 14 days.

Use protective gloves or mitts when applying product. DO NOT USE ON CATS OR KITTENS.

**FOR OUTDOOR APPLICATION:**

TO CONTROL *Ticks*, Including *Ticks Which May Carry Lyme Disease* (perimeter treatment):

Use Permanone General Purpose Aqueous Insecticide as a residual treatment to control *Ticks* including the *Deer Tick (Ixodes scapularis)*, *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 ft<sup>2</sup>).

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 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 6-10 feet wide and adjacent to activity areas, especially where dense vegetation occurs.

**FOR CONTROL OF ORNAMENTAL GARDEN INSECTS:**

Not for use on plants grown for sale or other commercial or research purposes. Not for use in commercial greenhouses, nurseries, on sod farms or grass grown for seed.

For use on roses, dahlias, asters and other ornamentals to kill *Japanese Beetles* hit by spray as well as *Whiteflies*, *Aphids*, *Exposed Thrips*, *Spiders*, *Red Mites* and *Leafminers*. May be used on plants as a multipurpose 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, dogwoods, English ivy, Eunonymus, fuschia, geraniums, crassula, grape vines, Kentia palms, laurels, 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. Be cautious about wetting tender foliage, young plants and new growth. Do not spray plants when temperatures exceed 90°F. Contact insects directly whenever possible.

**STORAGE AND DISPOSAL**

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Do not store near heat or open flame. Store in original container in a cool, dry area that is inaccessible to children and pets.

**Container Disposal: If empty:** Non-refillable container. Do not reuse or refill this container. Place in trash or offer for recycling, if available.

**If partly filled:** Call your local solid waste agency 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 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



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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.

**LIMITATIONS OF LIABILITY:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT VALENT BIOSCIENCES CORPORATION'S ELECTION, THE REPLACEMENT OF PRODUCT.

[Or alternate text

Note [Notice]: Seller warrants that this product complies with the specifications expressed in this label. To the extent consistent with applicable law, Seller makes no other warranties, and disclaims all other warranties, express or implied, including but not limited to warranties of merchantability and fitness for the intended purpose. To the extent consistent with applicable law, seller's liability or default, breach or failure under this label shall be limited to the amount of the purchase price. To the extent consistent with applicable law, Seller shall have no liability for consequential damages.]

Or

NOTICE: To the extent consistent with applicable law, buyer assumes all responsibility for safety and use not in accordance with directions.]

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Permanone is a registered trademark of Bayer AG.

**Valent BioSciences Corporation**  
***Environmental Science Division***  
870 Technology Way  
Libertyville, IL 60048



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# PERMANONE<sup>®</sup>

## GENERAL PURPOSE

## AQUEOUS INSECTICIDE

- *[For Professional Use both Indoors And Outdoors*
- *A Ready-To-Use Permanone Stable Emulsion Insecticide*
- *For Control Of Fleas, Brown Dog Ticks And Lice On Premises And On Dogs*
- *For Control Of Ticks Which May Cause Lyme Disease On Premises*
- *Controls Fleas And Ticks On Dogs For 14 Days*
- *Provides 60-Day (Two Months) Control Of Cockroaches*
- *Provides 60-Day (Two Months) Control Of Fleas*
- *Provides 60-Day (Two Months) Control Of Stored Product Pests*
- *For Livestock And Premise Use]*

**ACTIVE INGREDIENT:**

Permethrin\* ..... 0.50%

**OTHER INGREDIENTS:** ..... 99.50%  
100.00%

\* Cis/trans ratio: min. 35% (+/-) cis and max. 65% (+/-) trans.

**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. 73049-303

EPA EST. NO.

**KEEP OUT OF REACH OF CHILDREN****CAUTION**

See (back) (side) (rear) panel for additional precautions.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. For information on this product (including health concerns, medical emergencies or pesticide incidents), you may call 1-877-315-9819.

NET CONTENTS:



**READ ENTIRE LABEL BEFORE EACH USE  
PET USE APPLIES TO USE ONLY ON DOGS****USER SAFETY RECOMMENDATIONS**

- Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Users should remove clothing/PPE immediately if pesticide gets inside and after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and put on [change into] clean clothing.

**Personal Protective Equipment (PPE)**

All applicators and other handlers must wear:

- Long-sleeve shirt and long pants
- Shoes plus socks, and
- Chemical-resistant gloves made waterproof material.

**User Safety Requirements**

- Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.
- Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

**Environmental Hazards**

This product 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 waters. 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.

**Use Restrictions**

- Except when applying to dogs [or livestock], do not enter or allow adults, children, or pets to enter the treated area until sprays have dried.
- Except when applying to dogs [or livestock], do not apply this product in a way that will contact adults, children, or pets either directly or through drift.
- Except when applying to dogs [or livestock], only protected handlers may be in the area during application.
- Do not apply as a broadcast treatment to indoor surfaces at residential sites, including nurseries, day care centers, schools, hospitals, nursing homes.
- Do not breathe dust, vapors, or spray mist.
- Not for broadcast use.
- 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 operations. Serving areas are area where prepared foods are served, such as dining rooms, but excluding areas where foods may be prepared or held. In the home all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food should be covered or removed.
- Do not apply when food is present.
- Do not contaminate animal feed or water during application.
- Remove pets and birds and cover fish aquaria before spraying and surface applications.
- Do not use on electrical equipment or on surfaces that can be harmed or stained by water.



- 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.
- [Alternate text - For pet care: Do not apply to pets less than 12 weeks old. Consult a veterinarian before apply 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.
- [Alternate text - When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.]

[Additional text for - Outdoor use products]

- [Do not water the treated area to the point of run-off.
- Do not make applications during rain.
- Not for use in outdoor residential misting systems.
- All outdoor applications must be limited to spot or crack-and-crevice treatments only except for the following permitted uses:
  - Treatment to soil or vegetation around structures
  - Applications to lawns, turf, and other vegetation
  - 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.]

Affix trigger, pump or other type sprayer to container for application. Do not transfer to another container.

**SHAKE WELL BEFORE USING**

**INDOOR APPLICATION**

For spot application only. Do not use as a space spray indoors.

**SURFACE SPRAYING:**

For 60-Day [Two Months] control of *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 Beetles, Meal Worms, Grain Mites and Cadelles*: Direct the spray into hiding places, cracks and crevices, and behind shelves and drawers. For *Silverfish*, spray bookcases. 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 and baseboards. Spray directly into cracks, crevices and infested areas of shelving.

TO CONTROL *Bedbugs*: Spray mattresses lightly, particularly around tufts and seams. Take beds apart and spray in all joints. Treat baseboards, moldings and floors.

TO CONTROL *Fleas (adults and larvae)* and *Ticks, including Ticks which may carry Lyme disease (adults and larvae)*: 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. Fresh bedding should be placed in animal quarters following treatment. 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 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.

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.



**FOR DIRECT APPLICATION TO NON-DOMESTIC ANIMALS/LIVESTOCK:**

TO PROTECT CATTLE (BEEF AND DAIRY), GOATS, SHEEP, HOGS AND HORSES FROM *Horn Flies*, *Face Flies*, *Houseflies*, *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, crack in walls, and cracks in nests where the *Bedbugs* and *Mites* hide.

**FOR DIRECT APPLICATION TO DOGS (OVER 12 WEEKS OF AGE):**

TO CONTROL *Fleas*, *Ticks*, and *Lice*:

Hold the container upright. Spray at a distance of 8-12 inches. Starting at the tail, spray over entire hair coat while moving the dispenser rapidly; making sure the coat is thoroughly wetted to the skin. While spraying, fluff the hair so the spray will penetrate to the skin. Make sure spray wets ticks thoroughly. Spray against the lay of the hair, roughing the hair on long-haired dogs. Do not spray into the eyes, face or genitalia. For best results in killing ticks, spray directly on the tick. Allow dog to air dry or blow dry. Do not towel dry. Do not reapply more than once every 14 days.

Use protective gloves or mitts when applying product. DO NOT USE ON CATS OR KITTENS.

**FOR OUTDOOR APPLICATION:**

TO CONTROL *Ticks*, Including *Ticks Which May Carry Lyme Disease* (perimeter treatment):

Use Permanone General Purpose Aqueous Insecticide as a residual treatment to control *Ticks* including the *Deer Tick* (*Ixodes scapularis*), *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 ft<sup>2</sup>).

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 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 6-10 feet wide and adjacent to activity areas, especially where dense vegetation occurs.

**FOR CONTROL OF ORNAMENTAL GARDEN INSECTS:**

Not for use on plants grown for sale or other commercial or research purposes. Not for use in commercial greenhouses, nurseries, on sod farms or grass grown for seed.

For use on roses, dahlias, asters and other ornamentals to kill *Japanese Beetles* hit by spray as well as *Whiteflies*, *Aphids*, *Exposed Thrips*, *Spiders*, *Red Mites* and *Leafminers*. May be used on plants as a multipurpose 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, dogwoods, English ivy, Eunonymus, fuschia, geraniums, crassula, grape vines, Kentia palms, laurels, 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



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inches. Use sweeping motion. Be cautious about wetting tender foliage, young plants and new growth. Do not spray plants when temperatures exceed 90°F. Contact insects directly whenever possible.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**Pesticide Storage:** Do not store near heat or open flame. Store in original container in a cool, dry area that is inaccessible to children and pets.

**Container Disposal: If empty:** Non-refillable container. Do not reuse or refill this container. Place in trash or offer for recycling, if available.

**If partly filled:** Call your local solid waste agency 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 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.

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870 Technology Way  
Libertyville, IL 60048



