

73049-463

06-28-2011

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460-0001

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

June 28, 2011

Mr. Nasser Assaf, Ph.D.,
Regulatory Manager, ESD
Valent BioSciences Corporation
870 Technology Way
Libertyville, IL 60048-5350

**Subject: Label Notification(s); Pesticide Registration Notification (PRN) 98-10
PRAMEX® 10-10, EPA Reg. No. 73049-463
Your Submission Dated June 14, 2011**

Dear Mr. Assaf:

The Agency is in receipt of your application for Pesticide Notification under Pesticide Registration Notification (PRN) 98-10, dated June 14, 2011, for the referenced product. The Registration Division has conducted a review of this request for its applicability under PRN 98-10, and finds that the action(s) requested fall within the scope of PRN 98-10.

Please be reminded that 40 CFR §156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on non-refillable containers. The code may appear either on the label (and can be added by non-Notification/PRN 98-10) or durably marked on the container itself.

The label submitted with this application has been time-stamped "Notification," and will be placed within the administrative file for this product. If you have any questions, please contact Mr. Carmen Rodia at (703) 306-0327 or via e-mail at Rodia.Carmen@epa.gov.

Sincerely yours,

Richard J. Gebken
Product Manager (10)
Insecticide Branch
Registration Division (7504P)



United States
Environmental Protection Agency
 Washington, DC 20460

Registration
 Amendment
 Other

OPP Identifier Number

Application for Pesticide - Section I

| | | |
|--|--|--|
| 1. Company/Product Number 73049-463 | 2. EPA Product Manager Mark Suarez | 3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted |
| 4. Company/Product (Name) Praxem 10-10 | PM# 13 | |
| 5. Name and Address of Applicant (Include ZIP Code) Valent BioSciences Corporation 870 Technology Way Libertyville, IL 60048 <input type="checkbox"/> Check if this is a new address | 6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: NOTIFICATION EPA Reg. No. _____ JUN 28 2011 Product Name _____ | |

Section - II

| | |
|--|--|
| <input type="checkbox"/> Amendment - Explain below. | <input type="checkbox"/> Final printed labels in response to Agency letter dated _____ |
| <input type="checkbox"/> Resubmission in response to Agency letter dated _____ | <input type="checkbox"/> "Me Too" Application. |
| <input checked="" type="checkbox"/> Notification - Explain below. | <input type="checkbox"/> Other - Explain below. |

Explanation: Use additional page(s) if necessary. (For section I and Section II.) This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

NOTIFICATION of additional use dilution directions. Note: no additional use percentages have been added.
 Current: 1 gallon of concentrate in 55 gallons of water. Addition of: [1/2 gallon of concentrate in 27.5 gallons of water]

Section - III

| | | | | | |
|--|---|---|--|--|--|
| 1. Material This Product Will Be Packaged In: | | | | 2. Type of Container | |
| Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No | Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No | Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____ | | |
| * Certification must be submitted | | If "Yes" Unit Packaging wgt. No. per container If "Yes" Package wgt. No. per container | | | |
| 3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container | | 4. Size(s) Retail Container | | 5. Location of Label Directions <input type="checkbox"/> on label | |
| 6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph Paper glued Stenciled | | | <input type="checkbox"/> Other _____ | | |

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

| | | |
|-------------------------------|---|---|
| Name Nasser A. Assaf Ph.D. | Title Manager, Product Safety and Regulatory Affairs | Telephone No. (Include Area Code) (847) 968-4844; FAX (925) 817-5160; Nasser.Assaf@valent.com |
|-------------------------------|---|---|

| | | |
|--|--|---|
| Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law. | | 6. Date Application Received (Stamped) |
| 2. Signature <i>N.A. ASSAF</i> | 3. Title Manager, Product Safety and Regulatory Affairs | |
| 4. Typed Name Nasser A. Assaf, Ph.D. | 5. Date June 14, 2011 | |

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PRAMEX® 10-10
For Misting Systems

NOTIFICATION

JUN 28 2011

- ◆ [For use in automatic spray systems
- ◆ For use in automatic spray systems in residential backyards
- ◆ For use in automatic spray systems in [residential backyards] animal quarters, horse & cattle barns, dairy and beef barns, dairies, milking parlors, swine housing, poultry houses and warehouses
- ◆ Kills mosquitoes that may cause West Nile virus and [Eastern] [Western] [And] St. Louis Equine Encephalitis
- ◆ Will not harm most [common] ornamentals
- ◆ May also be used on animals and animal premises]

ACTIVE INGREDIENTS:

| | |
|---|---------------|
| Permethrin [(3-Phenoxyphenyl) methyl (+ or -) cis-trans-3-(2,2-dichloroethenyl) 2,2-dimethylcyclopropanecarboxylate) *..... | 10.00% |
| Piperonyl butoxide, Technical**..... | 10.00% |
| OTHER INGREDIENTS: | <u>80.00%</u> |
| | 100.00% |

* Cis-trans isomers ratio: Min. 35% (+ or -) cis and Max. 65% (+ or -) trans
 ** Equivalent to 8.00% (butylcarbityl) (6-propylpiperonyl) ether and 2.00% related compounds

Contains 0.856 lbs. of Permethrin per gallon.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

Read label for first aid and precautionary statements.

EPA Reg. No. 73049-463

EPA Est. No.

Net contents:

| FIRST AID | |
|---|---|
| If swallowed: | <ul style="list-style-type: none"> ◆ Call a poison control center or doctor immediately for treatment advice. ◆ Do not induce vomiting unless told to do so by the poison control center or doctor. ◆ Do not give any liquid to the person. ◆ Do not give anything by mouth to an unconscious person. |
| If on skin or clothing: | <ul style="list-style-type: none"> ◆ Take off contaminated clothing. ◆ Rinse skin immediately with plenty of water for 15-20 minutes. ◆ Call a poison control center or doctor for treatment advice. |
| HOT LINE NUMBER | |
| <p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 877-315-9818 for emergency medical treatment information.</p> | |

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

Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic organisms, including fish and invertebrates. Drift and run-off may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through run-off. This water has a potential for run-off for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce run-off that contains this product.

Do not apply direct to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash-waters or rinsate.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other water unless in accordance with the requirement of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. See Directions for Use for additional precautions and restrictions.

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.

PHYSICAL OR CHEMICAL HAZARDS

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

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. Mixers, loaders, applicators and other handlers, (including during mixing/loading, repair and cleaning of equipment and disposal of pesticide) must wear the following:

- Long-sleeved shirt and long pants
- Chemical resistant gloves such as barrier laminate, viton, neoprene rubber or nitrile rubber.
- Shoes plus socks

In addition to the above PPE, mixers and loaders supporting aerial applications to forests and/or applicators using high-pressure handwand in an enclosed area must wear at least a NIOSH-approved respirator with a dust/mist filter with MSHA/NIOSH approval prefix TC-21C or any N,R, P, or HE filter.

In addition to the above PPE, applicators using hand-held foggers in an enclosed area must wear a half-face or full face or hood style NIOSH approved respirator with a dust/mist filtering cartridge with MSHA/NIOSH approval number prefix TC-21C, or a cartridge or canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a cartridge or canister with any N, R, P, or HE filter.

Follow manufacturer's instructions for cleaning/maintaining PPE. If there are no such instructions for washables, 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.

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. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

DIRECTIONS FOR USE

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

READ THIS LABEL IN ITS ENTIRETY BEFORE USING.

FOR PET USE – USE ONLY ON DOGS.

GENERAL PRECAUTIONS AND USE RESTRICTIONS:

- Apply this product only as specified on this label.
- Do not use spoons or measuring cups for food purposes after use with pesticides.
- Do not use in food areas of restaurants or food handling establishments or other areas where food is commercially prepared or processed. Do not use in a facility that is in operation or in serving areas while food is exposed. Serving areas are defined as areas where prepared foods are served such as dining rooms, but exclude areas where foods may be prepared or held. When used in the home, cover or remove all exposed food and cooking utensils and cover all food-processing surfaces or wash thoroughly after treatment and before re-use.
- Do not contaminate food or feedstuffs.
- Do not apply this product in a way that will contact workers or other persons, either directly or through drift.
- Except when applying to pets or livestock or through outdoor residential misting systems, do not enter or allow others to enter until vapors, mists and aerosols have dispersed and the area has been thoroughly ventilated.
- Except when applying to pets or livestock or through outdoor residential misting systems, do not apply this product in a way that will contact adults, children or pets, either directly or through drift.
- Except when applying to pets or livestock or through outdoor residential misting systems, only protected handlers may be in the area during application.
- Do not remain in treated area. Exit area immediately and remain outside the treated area until vapors, mists and aerosols have dispersed.
- Remove or cover exposed food and drinking water before application.
- Do not use in aircraft cabins except in accordance with PR Notice 96-3.
- Do not apply directly to or near water, storm drains, gutters, sewers or drainage ditches. Do not apply when windy. To prevent product run-off, do not water the treated area(s) or apply when heavy rain is expected. Rinse application equipment over treated area only.
- Do not wet plants to the point of run-off or drip.
- 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.
- For direct application to non-domestic animals/livestock: Do not apply more than 1 time per day.
- Remove pets, birds and cover fish aquariums before application. Turn off aquarium filtering systems before spraying and wait approximately 15 minutes after application before turning the filter back on.
- This product is not for use on plants being grown for sale or other commercial use. This product should not be used for research purposes, for commercial seed production, for commercial nursery use or forestry use.

When diluting, add the correct [required] amount of Pramex 10-10 to water as directed and blend thoroughly. For use both indoors (in homes) and outdoors. May be used in nonfood areas of commercial buildings, warehouses, food/feed processing establishments, institutions, schools, office buildings, hotels, motels, restaurants, theaters, hospitals, horse barns, swine [houses] and poultry houses, milking parlors, dairies, cattle barns and kennels. Examples of non-food areas are: lavatories, offices, locker rooms, floor drains (to sewers), garbage rooms, entries and vestibules, machine rooms, boiler rooms, garages, mop closets and storage rooms/closets (after canning or bottling).

For maximum effectiveness, a combination of space treatment and localized application is recommended.

Note: In the chart below, the number in the 3rd column refers to the level of Permethrin in the final diluted product. The rates on this label make the ready-to-use products listed below.

| DILUTION RATE | OUNCES OF PRAMEX 10-10 CONCENTRATE/GALLON | % PERMETHRIN IN DILUTED PRODUCT |
|---------------|---|---------------------------------|
| 1:19 | 6.40 | 0.50% |
| 1:39 | 3.20 | 0.25% |
| 1:100 | 1.28 | 0.10% |
| 1:200 | 0.64 | 0.05% |
| 1:400 | 0.32 | 0.025% |

WHEN USING INDOORS:

SURFACE SPRAY APPLICATION METHODS:

| Insects Controlled | Directions for Use | Dilution Instructions |
|---|--|---|
| Cockroaches, Water bugs, Palmetto Bugs, Ants, Silverfish, Firebrats, Spiders, Crickets, Millipedes, Centipedes, Sowbugs, Pillbugs, Clover Mites, Cheese Mites, Granary Weevils, Rice Weevils, Confused Flour Beetles, Rust Red Flour Beetles, Saw-Toothed Grain Beetles, Spider Beetles, Cigarette Beetles, Drug Store Beetles, Darkling Beetles, Mealworms, Grain Mites, Cadelles, and Lesser Houseflies and other manure breeding flies | Adjust your sprayer to deliver a coarse wet spray. Direct the spray into cracks and crevices, insect hiding places, behind shelves and drawers, under pallets, around containers of stored foods, and around the base of machinery. Spray ant trails, nests and points of entry. Spray bookcases for silverfish. Only when used as a surface application, spray floors, walls and other surfaces applying at a rate of 1 gallon to 750 square feet of surface. | For initial clean up of severe infestation, dilute at a rate of 1 part <i>Pramex 10-10</i> concentrate in 19 parts water (6.4 fluid ounces per gallon) This makes a 0.5% permethrin ready to use product. For normal infestation, dilute 1 part <i>Pramex 10-10</i> concentrate in 39 parts water (3.2 ounces per gallon). This makes a 0.25% permethrin ready to use product. For maintenance use, dilute 1 part <i>Pramex 10-10</i> concentrate in 100 parts water (1.28 ounces/gallon or 8 teaspoons/gallon). This makes a 0.1% permethrin ready to use product. |
| Centipedes, Ground Beetles, Pillbugs, Sowbugs, Scorpions and Ticks | Apply around windows and doors as well as other places where these insect pests may enter premises. Treat storage areas, baseboards, and other places where these pests may hide. | |
| Carpet Beetles | Spray edges of and under carpeting and rugs. Make localized application to baseboards and floors. Spray directly into cracks and crevices, closets and infested areas of shelving. | |
| Flying Insect places where they rest or land (helps in controlling insects such as Gnats, Mosquitoes, Skippers, Boxelder Bugs, Asian Lady Beetles) | Treat walls, ceilings, moldings, screens, door and window frames and similar resting places. | Dilute at a rate of 1 part <i>Pramex 10-10</i> concentrate in 19 parts water (6.4 fluid ounces per gallon) This makes 0.5% permethrin ready-to-use product) |

| | | |
|---|---|--|
| Bed Bugs | Before treating, spray fabric in an inconspicuous area to test for possible staining or discoloration. Inspect again after drying. If no staining occurs, continue by spraying mattresses lightly, particularly around tufts and seams. Take beds apart and spray in all joints. Treat baseboards, moldings, and floors. Allow all treated articles to thoroughly dry before use. | For initial clean up of severe insect infestation, dilute at a rate of 1 part <i>Pramex 10-10</i> concentrate in 19 parts water (6.4 fluid ounces per gallon). Makes a 0.5% permethrin ready to use product. |
| Clothes Moths | Remove infested items from storage, brush thoroughly and if possible, air for a few hours, preferably in sunlight. Liberally apply spray to empty closets, chests, dressers and other storage areas by directing the spray into cracks, crevices and joints. After airing, infested items may be treated lightly, keeping nozzle at least 3 feet from fabric to avoid staining. | For normal infestations, dilute 1 part <i>Pramex 10-10</i> concentrate in 39 parts water (3.2 ounces per gallon). Will make a 0.25% permethrin ready to use product. |
| Lice and Louse Eggs (on inanimate objects) | Prior to using, spray in an inconspicuous area to test for possible staining or discoloration. Inspect again after drying. 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. | For maintenance use, dilute 1 part <i>Pramex 10-10</i> concentrate in 100 parts water (1.28 ounces per gallon or 8 teaspoons per gallon). Makes a 0.1% permethrin ready to use product. |
| Fleas, Flies, Ticks, Lice and Mange Mites (adults and larvae) in kennels, shelters, doghouses, runs and yards | Allow all treated articles to dry thoroughly before use. Test delicate fabrics in an inconspicuous area prior to use. Thoroughly spray infested areas, pet beds, resting quarters, nearby cracks and crevices, along and behind baseboards, moldings, window and door frames and localized areas of floor and floor coverings (rugs and carpets). Fresh bedding should be placed in animal quarters once spray has dried. Adult fleas and larvae contacted by spray will be killed. Do not treat cat bedding. | |

SPACE SPRAY APPLICATION METHODS:

| Insects Controlled | Directions for Use | Dilution Rate |
|--|---|---|
| House Flies, Fruit Flies, Gnats, Mosquitoes, Skipper Flies, Wasps, Hornets, Bees, Black Flies, Asian Lady Beetles, Boxelder Bugs, Angoumois Grain Moths, and Tobacco Moths | <p>Apply with non thermal mechanical or compressed air equipment that is adjusted to deliver a fine mist. Close doors and windows and shut off ventilating systems, including air conditioners. Direct spray at an upward angle distributing it uniformly through the entire area at a rate of 1 ounce per 1,000 cubic feet of space. Vacate after treatment and keep area closed for at least 10 minutes then ventilate and sweep up dead insects before occupying.</p> <p>For quick kill of accessible or exposed stages of other insects named on this label. Apply using conventional non thermal mechanical or compressed air equipment. Follow space spraying directions. Apply dilutions at a rate of 1 ounce per 1,000 cubic feet of space.</p> | <p>For initial clean up of severe insect infestation, dilute at a rate of 1 part <i>Pramex 10-10</i> concentrate in 19 parts water (6.4 fluid ounces per gallon). Makes a 0.5% permethrin ready to use product.</p> <p>For normal infestations, dilute 1 part <i>Pramex 10-10</i> concentrate in 39 parts water (3.2 ounces per gallon). Will makes a 0.25% permethrin ready to use product.</p> <p>For maintenance use, dilute 1 part <i>Pramex 10-10</i> concentrate in 100 parts water (1.28 ounces per gallon or 8 teaspoons/gallon) Makes a 0.1% permethrin ready to use product</p> |

OUTDOOR USE AREAS

Drive-In Theaters, Drive-In Restaurants, Gardens, Homes, Parks, Playgrounds, Recreational Areas, Golf Courses, Feed Lots Corrals, Swine Lots, Zoos and Urban Areas.

PREMISE SPRAY APPLICATION METHODS:

| Insects Controlled | Directions for Use | Dilution Rate |
|--|--|--|
| Mosquitoes, Wasps, Hornets, Yellow Jackets Annoyance Flies and Skippers | Treat walls, ceilings, moldings, screens, door and window frames, and similar resting places. Application should be made prior to occupancy. Cover any exposed food, water, drinking fountains and animal feed before application. In zoos, prevent reptiles from exposure to this product. | Dilute 1 part <i>Pramex 10-10</i> concentrate in 39 parts water (3.2 fluid ounces per gallon of water). This will make a 0.25% permethrin ready to use product. |
| Gypsy Moth Caterpillars and Adults, Adult Japanese Beetles, Eastern and Forest Tent Caterpillars, Mole Crickets and Grasshoppers | <p>Apply to insure thorough coverage of upper and lower leaf surfaces. Thoroughly wet down grass a few hours before applying. Lawns should not be higher than 3 inches at time of treatment. Wet lawns with 1/4 inch of water immediately after application. For heavy infestations, repeat application after 2 weeks.</p> <p>Treat trees and shrubs as soon as insects emerge (usually late spring). Spray leaves, branches, and tree trunks evenly. Make sure to penetrate dense foliage. Repeat application every 7 days as necessary for control.</p> <p>On roses and in flower gardens: Treat plants and flowers as soon as insects appear. Spray flowers and plants making sure to penetrate dense foliage. Repeat application every 7 days or as necessary for control.</p> | <p>Dilute 1 part concentrate in 39 parts water (3.2 fluid ounces per gallon of water). Makes a 0.25% permethrin ready to use product.</p> <p>Mix 1.28 fl. oz. per gallon of water and treat 1,000 sq. ft. Slightly more water may be used provided the amount of product per area is the same.</p> |

| | | |
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| Fire Ants | Using equipment such as a garden sprinkling can, gently apply at the rate of one gallon per mound. Thoroughly wet the mound and surrounding area to a diameter of 4 feet. For best results, apply in cool weather, 65° to 80°F, or in early morning or late evening hours. Treat new mounds as they appear. Do not disturb the mound prior to treatment. Treat all mounds in the vicinity and treat all colonies, which have not yet built mounds. Do not use equipment that produces a pressurized spray since this will disturb Fire Ants and cause migration, reducing the effectiveness of this product. | Mix 6.4 fl. oz. in 1 gallon of water. |
| Ants, Crickets, Earwigs, Fleas and Ticks | For localized infestations where there are weeds or bushy non-crop areas, spray infested areas thoroughly. For Ants, thoroughly wet hills and runways. | For severe infestation, dilute 1 part <i>Pramex 10-10</i> concentrate in 19 parts water (6.4 oz. per gallon of water). Will make a 0.5% permethrin ready to use product. Also treat 400 linear feet with a 6-inch spray band. |
| Clover Mites, Millipedes, Sowbugs (Pillbugs) | To help prevent infestation of buildings, treat the building foundation to a height of 2 to 3 feet where insects are active and may find entry. Apply also as a residual spray to outside surfaces of buildings, garages, patios, and other areas where these pests may be found. | For normal infestations, dilute 1 part <i>Pramex 10-10</i> concentrate in 39 parts water (3.2 oz. per gallon). Makes a 0.25% permethrin ready to use product. |
| Armyworms, Cutworms, Chinch Bugs, Sod Webworms | Thoroughly wet down grass a few hours before applying. Lawns should be no higher than 3 inches at time of application. Delay watering or mowing for 24 hours after treatment. For heavy infestation, repeat application after 2 weeks. | Mix 3.2 fluid ounces per gallon of water and treat 1,000 sq. ft. Slightly more water may be used as long as the amount of product per area is the same. |

ANIMALS AND ANIMAL PREMISE USE AREAS

Cattle Barns, Milk Rooms & Parlors, Dairies, Horse Barns, Poultry Houses, Swine Houses, and Kennels.

This product may be used on Dairy and Beef Cattle, Sheep, Goats, Swine, Horses, Poultry and Dogs.

| Insects Controlled | Directions for Use | Dilution Rate |
|---|---|--|
| Horn Flies, House Flies, Mosquitoes and Gnats | Wet the hair thoroughly, paying particular attention to topline, underline, flanks, withers and other infested areas. Repeat treatment at intervals of 5 to 12 days for small insect populations or as needed when flies are emerging in large numbers. | For clean up of severe insect infestation, dilute at a rate of 1 part <i>Pramex 10-10</i> concentrate in 100 parts water (1.28 ounces per gallon or 8 teaspoons/gallon). Makes a 0.1% permethrin ready-to-use product. |
| Stable Flies, Horse Flies and Deer Flies | Apply a quart per adult animal to wet the hair thoroughly with special attention to the legs, flanks, barrel, topline and other body areas commonly attacked by those flies. Repeat daily as needed. | |
| Face Flies | Apply using spray that produces large wetting droplets. Apply to the face of the animal in the morning before moving it to pasture. Apply sufficiently to wet the face, but not more than 1 1/2 ounces per animal. Do not get into eyes, nose or mouth. Repeat daily as needed. | |

| | | |
|--|---|---|
| Poultry Lice | Spray roosts, nests, walls and cages thoroughly, followed by spraying over the birds with a fine mist. | For normal infestations, dilute 1 part Pramex 10-10 concentrate in 200 parts water (0.64 ounces per gallon or 4 teaspoons per gallon) Makes a 0.05% permethrin ready-to-use product. |
| Bed Bugs and Mites(including Northern fowl mite) in poultry houses | Spray crevices of roost poles, cracks in nests and walls where the Mites & Bed Bugs hide. Spray birds with a fine mist paying particular attention to vents. Use at the rate of 1 gallon of spray per 100 birds. | |
| Sheep "Tick" or Ked | Thoroughly wet all parts of the animal's body by dipping or spraying with sufficient pressure to penetrate the wool. Treat at a rate sufficient to wet the animal. | For maintenance use, dilute 1 part Pramex 10-10 concentrate in 400 parts water (0.32 ounce per gallon or 2 teaspoon per gallon). Makes a 0.025% permethrin ready-to-use product. |
| Meal Worms, Darkling Beetles | Apply as a fine mist or fog, directing the spray toward the upper corners and ceiling until the area is filled with mist. Use about 2 ounces per 1,000 cubic feet of space. For best results, close windows and doors before spraying. Vacate after treatment and keep area closed for 10 to 15 minutes. Ventilate area before reentering the area. | |
| Horn Flies, Face Flies, Horseflies, Ear Ticks | Back rubber— make sure the back rubber stays filled. | Dilute 8 oz. in 5 gallons oil. |
| Ticks (including deer ticks, which carry Lyme disease) Blowflies, Hog Lice | Spray, dip, or sponge to apply 1 pint per animal, especially around ears. | Dilute 1.28 oz. per gallon of water (1 part Pramex 10-10 concentrate to 100 parts water). This makes a 0.10% permethrin ready-to-use product. |
| Poultry Mites, Northern Fowl Mites and Lice | At the rate of 1 gallon per 100 birds, spray with a fine mist. Spray walls, roosts, cages and nests. | |
| Fleas, Flies, Ticks, Lice and Mange Mites (adults and larvae) in doghouses, kennels, shelters, yards and runs. | Before treating, spray fabric in an inconspicuous area to test for possible staining or discoloration. Inspect again after drying. If no staining occurs, thoroughly spray infested areas, pet beds, resting quarters, nearby cracks and crevices, along and behind baseboards, moldings, window and doorframes and localized areas of floor and floor coverings (rugs and carpets). Fresh bedding should be placed in animal quarters once spray has dried. Adult fleas and larvae contacted by spray will be killed. Do not treat cat bedding. | For initial clean up of severe insect infestation, dilute at a rate of 1 part Pramex 10-10 concentrate in 19 parts water (6.4 fluid ounces/gallon). This makes a 0.5% permethrin ready-to-use product. For normal infestations, dilute 1 part Pramex 10-10 concentrate in 39 parts water (3.2 ounces per gallon). Makes a 0.25% permethrin ready-to-use product. For maintenance use, dilute 1 part concentrate in 100 parts water (1.28 ounces/ gallon or 8 teaspoons/gallon). Makes a 0.1% permethrin ready-to-use product. |
| Fleas, Ticks, Lice and Mange Mites (adults and larvae) on dogs and livestock | Thoroughly wet the animal by spraying, dipping or sponging. Do not rinse or towel dry; allow animal to air dry in a warm place. Gives long lasting protection against re infestation. Repeat applications at intervals of 2 to 3 weeks. Do not treat cats or their bedding. Do not treat puppies less than twelve weeks old. Pet sensitivities may occur after using ANY pesticide product. If you see signs of sensitivity bathe your pet with mild soap and rinse with large quantities of | For clean up of severe insect infestation, dilute at a rate of 1 part concentrate in 100 parts water (1.28 ounces per gallon or 8 teaspoons/gallon). Makes a 0.1% permethrin ready-to-use product. For normal infestations, dilute 1 part concentrate in 200 parts water (0.64 ounces per gallon or 4 teaspoons/ gallon). Makes a 0.05% ready-to-use product. |

| | | |
|--|---|---|
| | water. If signs continue, consult a veterinarian immediately. If you have a debilitated, aged, medicated, pregnant or nursing animal, consult a veterinarian before using this product. | For maintenance use, dilute 1 part concentrate in 400 parts water (0.32 ounces per gallon or 2 teaspoons/gallon). This will make a 0.25% permethrin ready-to-use product. |
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FOR DAIRY CATTLE: Spray lactating dairy cows only after milking is complete.

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

DIRECTIONS FOR USE IN AUTOMATIC MISTING AND ULV SPRAYING SYSTEMS:

In animal quarters, poultry houses, swine housing, warehouses, dairy barns, beef barns, stables, zoos and other listed livestock or animal housing areas.

To kill Flies, including House Flies, Deer Flies, Horn Flies, Stable Flies, Horse Flies, Mosquitoes, including the Culex species that may carry and transmit the West Nile virus and [Eastern] [Western] [And] St. Louis Equine Encephalitis, Hornets, Wasps, Yellow Jackets, Gnats, Small Flying Moths, Earwigs, Fleas, Ticks, Fire Brats Crickets, Cockroaches, Silverfish, Spiders and other listed insects:

Mix 1/2 gallon (64 fluid ounces) of *Pramex 10-10* concentrate in 55 gallons of water to yield a solution of 0.09% Permethrin and 0.09% Piperonyl Butoxide. When treating areas with high insect populations or insects that are difficult to control, mix up to 1 gallon of concentrate in 55 gallons of water [1/2 gallon of concentrate in 27.5 gallons of water] to yield a solution of 0.18% Permethrin and 0.18% Piperonyl Butoxide.

For Tanks: To obtain the desired solution, partially fill the system reservoir tank with water, add concentrate to tank, and then add water to obtain desired dilution.

System nozzles should be set to deliver a rate not exceeding 1.25 fluid ounces of solution per minute, with one nozzle covering 100 square feet. The nozzles should deliver fine particle size droplets like those of a mist or an aerosol. Set the system timer to operate in accordance with equipment directions. Do not design or program the automatic spraying system to release pesticides where feed or water are directly exposed to spray mist.

DIRECTIONS FOR USE IN OUTDOOR RESIDENTIAL MISTING SYSTEMS:

[NOTE: NOT REGISTERED for use in Automatic ULV Spraying Systems in the State of New York.]

Use *Pramex 10-10* to control or temporarily reduce annoyance from accessible stages of: Mosquitoes including the Culex species that may carry and transmit the West Nile virus and [Eastern] [Western] [And] St. Louis Equine Encephalitis, Flies, House Flies, Gnats, Deer Flies, Horse Flies, Hornets, Wasps, Yellow Jackets, Fire Brats, Small Flying Moths, Earwigs, Fleas, Ticks including species that may carry or transmit Lyme Disease, Cockroaches, Crickets, Spiders, Silverfish, Asian Lady Beetles, and other nuisance insects.

Residential misting system installers and service technicians must comply with the license, certification, or registration requirements of the state(s), tribe(s), or local authority(ies) where they are installed.

Do not apply this product when people, pets and food or drink are present.

Do not use in an evaporative cooling system.

Direct nozzles to spray towards the target area and away from swimming pools, water bodies or eating and cooking areas.

Do not set nozzles to direct mist near outside air condition systems or other home air intakes.

When applying the end use dilution using a system with a reservoir tank, the tank must be locked. The end use pesticide label and the dilution statement must be securely attached to the system reservoir tank in a weather protected area or plastic sleeve. The dilution statement must be written as follows: "This container holds __ parts *Pramex® 10-10 Concentrate for Misting Systems* to __ parts water."

If a direct injection system is used, the pesticide container must be locked. The end use label must be securely attached to the pesticide container in a weather protected area or plastic sleeve.

If the system works on an automatic timer, set the timing for application when people, pets and/or food are unlikely to be present.

If the system works when a person operates a remote activation device, then application of this pesticide when people, pets and/or food are present is prohibited.

Contact the system manufacturer for guidance or assistance to ensure compliance with the following requirement:

This product may only be used in systems that have been calibrated to apply no more than the maximum application rate of 9.5 fl. oz. of 0.09% synergized permethrin solution per 1,000 cubic feet per day.

Mix 1/2 gallon (64 fluid ounces) of *Pramex 10-10* concentrate in 55 gallons of water to yield a solution of 0.09% Permethrin and 0.09% Piperonyl Butoxide. When treating areas with high insect populations or insects that are difficult to control, mix up to 1 gallon of concentrate in 55 gallons of water 1/2 gallon of concentrate in 27.5 gallons of water to yield a solution of 0.18% Permethrin and 0.18% Piperonyl Butoxide.

For Tanks: To obtain the desired solution, partially fill the system reservoir tank with water, add concentrate to tank, and then add water to obtain desired dilution.

The system nozzles should deliver fine particle size droplets like those of a mist or an aerosol.

Automatic spraying system dilution table

| "X" Tank Size (in gallons) | "Y" Conversion Factor (Fluid ozs. of Pramex 10-10 Concentrate/Gallon of water) | "X" times "Y"= How many fluid ozs. of concentrate should be mixed with water for the tank size specified** (Ex.: a 15 gallon tank x 1.16. needs 17.4 ozs. of Pramex 10-10 per 15 gallons of water) |
|----------------------------------|---|--|
| 1 | 1.16 | 1.16 |
| 15 | 1.16 | 17.4 |
| 20 | 1.16 | 23.2 |
| 30 | 1.16 | 34.8 |
| 55 | 1.16 | 63.8 |

**will make a 0.09% synergized permethrin solution

INSTRUCTIONS FOR REFILLING A PARTIALLY FILLED TANK: When refilling a partially filled tank: calculate the amount of additional solution (in gallons) required to fill the tank to the desired level. Multiply the number of gallons required to refill tank times 1.16 to determine the amount of this concentrate to add when refilling (to achieve 0.09% synergized permethrin solution).

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store upright at room temperature. Avoid exposure to extreme temperatures.

CONTAINER DISPOSAL: If empty: non-refillable container. Do not reuse or refill this container. Offer for recycling if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

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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[Or alternate warranty statement

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[Brackets denotes alternate text]