



U.S. ENVIRONMENTAL PROTECTION
AGENCY

Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Avenue, N.W.
Washington, D.C. 20460

NOTICE OF PESTICIDE:

Registration
 Reregistration

(Under FIFRA as amended)

EPA Reg.
Number:
88746-1

Date of
Issuance:
AUG 14 2012

Term of Issuance:
Conditional

Name of Pesticide Product:
Solutions Permethrin PBO
10-10

Name and Address of Registrant (include ZIP Code):

Inova Chemicals, LLO
2739 Pasadena Blvd.
Pasadena, Texas 77502

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A), provided that you:

1. You will submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. You will make the following label changes before you release the product for shipment:

a. Revise the EPA Registration Number to read "EPA Registration Number 88746-1".

Signature of Approving Official:

Refer to page #2.

Richard Gebken, Product Manager (10)

Date:

AUG 14 2012

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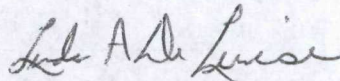
EPA Registration No. 88746-1

- b. Change "Permethrin" to "Permethrin"
- c. Change "Piperonyl Butoxide Technical" to Piperonyl Butoxide**
- d. Change "Inert Ingredients" to "Other Inert Ingredients".
- e. After TOTAL add "* (3-phenoxyphenyl) methyl (+/-) Cis/trans 2, 2 Dimethylcyclopropane carboxylate. Cis/trans ratio: min. 35 %((+/-) cis and max. 65% (+/-) trans."
- f. After "" add ""* (butylcarbityl) (6-propylpiperonyl) ether and related compounds."

3. Per 40 CFR 156.10(6), submit one copy of your final printed labeling before you release the product for shipment. As defined in 40 CFR 152.3, "final printed labeling" means the "label or labeling of the product when distributed or sold." Clearly legible reproductions or photo reductions will be accepted for unusual labels. Note that a clean copy of the master label in most cases does not meet the definition of final printed labeling. A stamped 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,




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

[FRONT LABEL PANEL]

Solutions PERMETHRIN PBO 10 - 10
[Alt Brand Name FLEX 10 10 INSECTICIDE]
[Alt Brand Name FLEX INSECTICIDE]

- For use outdoors and indoors in homes and nonfood areas of commercial buildings institutions warehouses theaters office buildings schools motels hotels restaurants food/feed processing establishments hospitals kennels poultry houses dairies cattle barns milking parlors horse barns and swine houses

[OPTIONAL MARKETING LANGUAGE

- For use in automatic misting systems in livestock housing facilities milking parlors poultry houses
- For use in livestock housing facilities milking parlors poultry houses
- For use in warehouses
- For use outdoors in residential yards
- For use in outdoor residential misting systems
- Polymeric Surfactant System—a formulation that allows convenient and stable dilution with water
- Will not harm most common ornamental plants
- Kills mosquitoes which may transmit West Nile Virus]
- Use to control or temporarily reduce annoyance from accessible stages of Mosquitoes including the Culex species that may carry and transmit the West Nile Virus Flies House Flies Gnats Deer Flies Horse Flies Hornets Wasps Yellow Jackets Fire Brats Small Flying Moths Earwigs Fleas Ticks Crickets Cockroaches Silverfish Spiders and other nuisance insects
- For Use Indoors and Outdoors
- Residential Commercial Buildings and Animal Housing
- For Use In Misting Systems
- Controls Mosquitoes* Flies Gnats Wasps Fleas Ticks Cockroaches Spiders and other nuisance insects

(Including the Culex species that may carry and transmit the West Nile Virus)

ACTIVE INGREDIENTS

Permethrin 10 0%
Piperonyl Butoxide Technical 10 0%

INERT INGREDIENTS

80 0%

TOTAL

100 0%

Contains 0 78 lb permethrin per gallon

KEEP OUT OF REACH OF CHILDREN
CAUTION

See Back/Side Label Panel For Additional Precautionary Statements

Handwritten: ~~Comments~~
EPA Letter Patent

AUG 14 2012

Handwritten: Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 88746-1

FIRST AID	
If swallowed	Call poison control center or doctor immediately for treatment advice Have person sip a glass of water if able to swallow Do not induce vomiting unless told to do so by the poison control center or doctor Do not give anything by mouth to an unconscious person
If on skin or clothing	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
Have the product container or label with you when calling a poison control center or doctor or going for treatment For additional information on this product(including health concerns medical emergencies or pesticide incidents) you may call SafetyCall® International for emergency medical treatment at (866) 897 8050	

Net Contents _____

[BACK/SIDE LABEL PANEL]

- READ ENTIRE LABEL BEFORE USE

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

CAUTION

Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes or clothing. 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 toxic to aquatic organisms, including fish and invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through runoff. This water has a potential for runoff for several weeks after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product.

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 when disposing of equipment washwaters or rinsate.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other water unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to the 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 product 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 in or on electrical equipment due to potential for shock hazard.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical resistance category selection chart.

Mixers, loaders, applicators, and other handlers (including during mixing / loading, repair and cleaning of equipment and disposal of pesticide) must wear the following:

- Long sleeve shirt and long pants
- Shoes plus socks
- Chemical resistant gloves such as barrier laminate, viton, neoprene rubber or nitrile rubber
- Chemical resistant apron for mixers/loaders, persons cleaning equipment, and persons exposed to the concentrate and for handlers performing animal dip applications

Applicators using ULV cold foggers or fog/mist generators in indoor spaces must wear:

- Coveralls over long sleeved shirt and long pants
- Chemical resistant gloves
- Chemical resistant footwear plus socks, and
- Chemical resistant headgear, if overhead exposure

Applicators using ULV cold foggers or fog/mist generators in outdoor spaces must wear:

- Long sleeve shirt and long pants
- Shoes plus socks and
- Chemical resistant gloves

All other mixers loaders applicators and other handlers must wear

- Long sleeve shirt and long pants
- Shoes plus socks
- Chemical resistant gloves
- Chemical resistant apron for mixers/loaders persons cleaning equipment and persons exposed to the concentrate and for handlers performing animal dip applications

In addition to the above PPE applicators using a high pressure hand wand in an enclosed area must wear at least a NIOSH approved respirator with

- A dust / mist filtering cartridge (MSHA / NIOSH approval number prefix TC 21C) or
- A 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 no such instructions for washables exist use detergent and hot water Keep and wash PPE separately from other laundry

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

Discard clothing and other absorbent materials that have been drenched (except as required by directions for use) or heavily contaminated with this product s concentrate Do not reuse them

DIRECTIONS FOR USE

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

READ ENTIRE LABEL AND PAMPHLET USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS

FOR PET USE USE ONLY ON DOGS

For any requirements specific to your State or Tribe consult the agency responsible for pesticide regulation

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 food 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 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 only protected handlers may be in the area during application
- 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
- Do not remain in the treated area Exit 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
 - Do not apply directly to or near water storm drains or drainage ditches Do not apply in windy conditions To prevent run off do not water the treated area(s) or apply when heavy rain is expected Rinse application equipment only over treated area
 - Do not wet plants to point of run off or drip Do not use treated articles until spray has dried
 - When used in dairy barns or facilities Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects Remove or cover milking utensils before application Wash teats of animals before milking
 - Remove pets and birds and cover fish aquaria 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 for other commercial use This product should not be used for research purposes for commercial seed production for commercial nursery use or forestry use

DIRECTIONS FOR APPLYING

SHAKE WELL BEFORE USING

Use a clean sprayer Carefully measure and mix the amount of concentrate and water as directed and mix thoroughly Spray as directed Thorough coverage is important Make applications when insects first appear Repeat applications as directed Flush sprayer with clean water after each use

Use Dilution rate as indicated

1 fl oz = 6 tsp or 2 Tbsp

8 fl oz = 1/2 pt or 1 cup

OUTDOOR USE AREAS

Corrals drive in theatres drive in restaurants feed lots gardens homes parks golf courses playgrounds recreational areas swine lots urban areas zoos

PREMISE SPRAY APPLICATION METHODS

To control

Mosquitoes nuisance flies wasps hornets yellow jackets and skippers

Dilute 6.4 fl oz per gallon of spray dilution (1 part concentrate in 19 parts water) Treat resting places such as walls ceilings moldings screens doorframes window frames and similar resting places Do not apply when the premises are occupied Cover any exposed food drinking water drinking fountains and animal feed before application In zoos prevent reptiles from being exposed to the product

Gypsy Moth Caterpillars and Adults Adult Japanese Beetles, Eastern and Forest Tent Caterpillars Mole Crickets and Grasshoppers

Dilute 6.4 fl oz per gallon of spray dilution (1 part concentrate in 39 parts water) Apply to ensure thorough coverage of upper and lower leaf surfaces Lawns should be not taller than 3 inches at time of application Thoroughly wet grass a few hours before applying Water with 1/4 inch of water immediately after application For heavy infestations repeat application after 2 weeks Treat trees and shrubs as soon as insects emerge (usually late spring) Treat leaves branches and tree trunks evenly making sure to penetrate dense foliage Repeat application every 7 days as necessary for control On roses and in flower gardens treat plants and flowers as soon as insects appear Spray plants and flowers making sure to penetrate dense foliage and ensure thorough coverage of upper and lower surfaces of leaves Repeat application every 7 days or as necessary for control

Ants Crickets Earwigs Fleas and Ticks (including ticks that carry Lyme disease)

Under normal conditions dilute 3.2 fl oz per gallon of dilution (1 part concentrate in 39 parts water) For severe infestations use 6.4 fl oz per gallon of dilution (1 part concentrate in 19 parts water) Also treat 400 linear feet with a 6 inch spray band For localized infestations of these insects in areas where there are weeds or bushy non crop

areas, spray infested areas thoroughly. For ants, thoroughly wet hills and runways.

Clover Mites, Millipedes, Sowbugs (Pillbugs):

Under normal conditions, dilute 3.2 fl oz per gallon of mixture (1 part concentrate in 39 parts water). For severe infestations, use 6.4 fl oz per gallon of water (1 part concentrate in 19 parts water). For prevention of infestation of buildings, treat the building foundation to a height of 2 to 3 feet where pests are active and may find entrance. Also, apply as a residual spray to outside surfaces of buildings, patios, garages, and other areas where these pests may be found.

Armyworms, Cutworms, Chinch Bugs, Sod Webworms:

Dilute 3.2 fl oz per gallon of spray dilution (1 part concentrate in 39 parts water). Lawns should be not taller than 3 inches at time of application. Thoroughly wet grass a few hours before applying. Delay watering or mowing for 24 hours after treatment. For heavy infestations, repeat application after 2 weeks.

Fire Ant Control

Mix 6.4 fl. oz. per gallon of dilution (1:19) and apply using a sprinkler can or similar equipment that provides a gentle application. Gently apply 1 gallon of the mixture over the surface of each mound. Thoroughly wet mound and surrounding area to a diameter of 4 feet. For best results apply in cool weather 65^o-80^o F or early in the morning or late in the evening. 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 constructed mounds. Do not use equipment that produces a pressurized spray since this will disturb fire ants and cause migration, reducing product effectiveness.

OUTDOOR RESIDENTIAL MISTING SYSTEMS (RESIDENTIAL YARDS, PLAYSCAPES)

NOTE: NOT REGISTERED FOR USE in automatic ULV misting systems in the State of New York and California.

Use to control, or temporarily reduce annoyance from spiders and accessible stages of: mosquitoes, including the Culex species which may carry and transmit West Nile virus; flies, deer flies, horse flies; gnats; hornets, wasps, yellow jackets; firebrats; small flying moths; earwigs; fleas; ticks, including species that may carry and transmit Lyme disease; cockroaches; crickets; silverfish; Asian lady beetles; and other nuisance insects.

When using this product installers and service technicians must comply with license, certification, or registration requirements of the states, tribes, or local authorities where they are installed.

Do not apply this pesticide when people, pets, and food 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 conditioning systems or other outdoor home air intakes.

If used in a system with a reservoir tank [unit / mister] [optional marketing language] for the end use dilution, the system [unit / mister] [optional marketing language] reservoir tank must be locked. Securely attach the end use and use pesticide label and a dilution statement to the system [unit / mister] [optional marketing language] tank in a weather protected area or plastic sleeve. The dilution statement must be phrased as follows (see dilution table below):

" THIS CONTAINER HOLDS 1 PART SOLUTIONS PERMETHRIN PBO 10 - 10 TO 110 PARTS WATER."

OR

" THIS CONTAINER HOLDS 1 PART SOLUTIONS PERMETHRIN PBO 10 - 10 TO 55 PARTS WATER."

If the system works on an automatic timer, set the timing for application when people, pets, and 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 food are present is prohibited.

Contact the system manufacturer for guidance or assistance to assure compliance with the following requirement
This product may only be used in systems [unit / mister] [optional marketing language] that have been calibrated to apply no more than the maximum application rate of 0.0054 pounds SOLUTIONS PERMETHRIN PBO 10-10 (0.09 fluid ounces SOLUTIONS PERMETHRIN PBO 10-10) per 1000 cubic feet per day (equivalent to 1.66 g per 100 M³)

Mixing directions for systems [unit / mister] [optional marketing language] that utilize a reservoir tank for the end dilution

Partially fill reservoir tank half full with water add SOLUTIONS PERMETHRIN PBO 10-10 then fill remainder of reservoir tank For 1:100 dilution mix 11.6 fluid ounces SOLUTIONS PERMETHRIN PBO 10-10 per 10 gallons of water In case of high insect population or hard to control species use 23.25 ounces per 10 gallons of water for a 1:55 dilution ratio It is recommended that the system reservoir tank be shaded from direct sunlight and direct heat sources

If used in a direct injection system the pesticide container must be locked Securely attach the end use label to the pesticide container in a weather protected area or plastic sleeve

System nozzles and pressure should be able to deliver a fine particle droplet size (ULV mist or aerosol)

DILUTION TABLE FOR AUTOMATIC SPRAYING SYSTEMS

Tank size (gallons)	Fluid ounces concentrate per gallon of water	Fluid ounces of concentrate to add to tank
1	For 1:100 dilution	1.16
15		17
20		23
30		35
55		64
1	For 1:55 dilution	2.32
15		34
20		46
30		70
55		128

TO REFILL A PARTIALLY FILLED TANK Determine the amount of additional solution (in gallons) required to re fill the tank Multiply the number of gallons required to refill the tank times 1.16 to determine the amount of this concentrate to add when refilling (to achieve 0.09% synergized permethrin solution)

WHEN USING INDOORS

SURFACE SPRAY APPLICATION METHODS

Nonfood / nonfeed areas include 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) bakeries flour mills granaries motels meat packing plants railroad cars ships holds truck trailers beverage plants food processing plants hospitals industrial installations homes restaurants supermarkets canneries grain elevators hotels kennels office buildings schools and warehouses

Cockroaches, Waterbugs, 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

Under normal conditions dilute 3.2 fluid ounces SOLUTIONS PERMETHRIN PBO 10-10 per gallon of spray dilution (1:39) For severe infestations use 6.4 fl oz per gallon (1:19) Use a sprayer adjusted to deliver 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 and behind shelves and drawers Avoid spraying into machinery openings or electrical equipment Spray bookcases for silverfish Spray ant trails nests and points of entry Only when used as a surface application spray floors walls and other surfaces at a rate of one gallon per 750 square feet of surface For maintenance use dilute 1 part concentrate to 100 parts water (1.28 ounces per gallon) (8 teaspoons per gallon) (This makes a 0.1%

permethrin ready to use product)

Centipedes Ground Beetles Pillbugs Sowbugs Scorpions and Ticks

Under normal conditions dilute 3.2 fluid ounces SOLUTIONS PERMETHRIN PBO 10 10 per gallon of spray dilution (1.39) For severe infestations use 6.4 fl oz per gallon (1.19) Apply around windows and doors as well as other places where these insects may enter the premises Also treat storage areas baseboards and other locations where these insects might hide For maintenance use dilute 1:100 (8 teaspoons per gallon of water)

Carpet Beetles

Under normal conditions dilute 3.2 fluid ounces SOLUTIONS PERMETHRIN PBO 10 10 per gallon of water (1.39) For severe infestations use 6.4 fl oz per gallon (1.19) Spray edges of carpeting and under carpeting and rugs Make localized application to floor and baseboards Spray directly into cracks closets and infested areas of shelving For maintenance use dilute 1:100 (8 teaspoons per gallon of water)

Flying Insect Resting Places (aids in the control of Mosquitoes Gnats Skippers Boxelder Bugs Multi colored Asian Lady Beetles)

Use 6.4 fl oz SOLUTIONS PERMETHRIN PBO 10 10 per gallon of spray dilution (1.19) This makes 0.5% permethrin ready to use product Apply to walls ceilings moldings screens door frames window frames beams and light cords Spray to get complete coverage but not to runoff

Clothes Moths

Under normal conditions dilute 3.2 fluid ounces SOLUTIONS PERMETHRIN PBO 10 10 per gallon of spray dilution (1.39) This makes 0.25% permethrin ready to use product For severe infestations use 6.4 fl oz per gallon (1.19) This makes 0.5% permethrin ready to use product For maintenance use dilute 1:100 (8 teaspoons per gallon of water) This makes a 0.1% permethrin ready to use product

Remove infested clothing or other fabrics from storage brush off any surface debris or insects air for a few hours and hang in sunlight if possible Spray empty chests closets bureaus and other storage containers directing the spray into cracks joints and crevices Do not spray to runoff After airing infested articles may be sprayed with a light mist keeping nozzle at least three feet from fabric to avoid excessive wetting which may leave stains or other marks

Bed Bugs

Under normal conditions dilute 3.2 fluid ounces SOLUTIONS PERMETHRIN PBO 10 10 per gallon of spray dilution (1.39) This makes 0.25% permethrin ready to use product For severe infestations use 6.4 fl oz per gallon (1.19) This makes 0.5% permethrin ready to use product For maintenance use dilute 1:100 (8 teaspoons per gallon of water) This makes 0.1% permethrin ready to use product

Before treating spray fabric in an inconspicuous area to check for staining or discoloration Inspect again after drying If no staining occurs lightly spray mattresses on all surfaces as well as around tufts and seams Avoid over wetting which may cause staining Take beds apart and spray into all joints or other places where there is access by bugs Treat baseboards moldings and floors Allow all treated articles to thoroughly dry before use

Lice and Louse Eggs (on inanimate objects)

Under normal conditions dilute 3.2 fluid ounces SOLUTIONS PERMETHRIN PBO 10 10 per gallon of spray dilution (1.39) This makes 0.25% permethrin ready to use product For severe infestations use 6.4 fl oz per gallon (1.19) This makes 0.5% permethrin ready to use product For maintenance use dilute 1:100 (8 teaspoons per gallon of water) This makes 0.1% permethrin ready to use product

Spray in an inconspicuous area prior to use 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 Allow all treated articles to dry thoroughly before re use

SPACE SPRAY APPLICATION METHODS

House Flies Fruit Flies Gnats Mosquitoes Skipper Flies Wasps Hornets Bees Black Flies Multi colored Asian Lady Beetles Boxelder Bugs Angoumois Grain Moths and Tobacco Moths

Under normal conditions dilute 3.2 fluid ounces SOLUTIONS PERMETHRIN PBO 10 10 per gallon of spray dilution (1.39) This makes 0.25% permethrin ready to use product For severe infestations use 6.4 fl oz per gallon (1.19) This makes 0.5% permethrin ready to use product For maintenance use dilute 1:100 (8 teaspoons per gallon of water) This makes 0.1% permethrin ready to use product

Apply with mechanical or compressed air equipment adjusted to deliver a fine mist. Do not use thermal fogging equipment. Close doors and windows and shut off ventilating systems. Spray at an upward angle to uniformly mist the entire space at a rate of 1 ounce dilution per 1 000 cubic feet of space. Do not remain in treated area. Exit area immediately and keep the treated area closed for at least 10 minutes. Ventilate the area and sweep up dead insects before occupying.

ANIMALS AND ANIMAL PREMISE USE AREAS

Cattle barns swine houses milk rooms kennels poultry houses horse barns dairies milking parlors feed lots stables paddocks. May be used on dairy and beef cattle sheep goats swine horses poultry and dogs.

Horn Flies House Flies Mosquitoes and Gnats

Under normal conditions dilute 4 teaspoons SOLUTIONS PERMETHRIN PBO 10 10 per gallon of water (1 200). This makes 0 05% permethrin ready to use product. For severe infestations use 8 teaspoons per gallon (1 100). This makes 0 1% permethrin ready to use product. For maintenance use dilute 1 400 (2 teaspoons per gallon of water). This makes 0 025% permethrin ready to use product. Apply to wet the hair thoroughly especially topline underline flanks withers and other infested areas. Repeat every 5 to 12 days when insect pressure is not excessive or as needed when there is a large population of flies.

Stable Flies Horse Flies and Deer Flies

Under normal conditions dilute 4 teaspoons SOLUTIONS PERMETHRIN PBO 10 10 per gallon of water (1 200). This makes 0 05% permethrin ready to use product. For severe infestations use 8 teaspoons per gallon (1 100). This makes 0 1% permethrin ready to use product. For maintenance use dilute 1 400 (2 teaspoons per gallon of water). This makes 0 025% permethrin ready to use product. Apply a quart per adult animal to wet the hair thoroughly with special attention to legs flanks barrel topline and other body areas commonly attacked by those flies. Repeat daily as needed.

Face Flies

Under normal conditions dilute 4 teaspoons SOLUTIONS PERMETHRIN PBO 10 10 per gallon of water (1 200). This makes 0 05% permethrin ready to use product. For severe infestations use 8 teaspoons per gallon (1 100). This makes 0 1% permethrin ready to use product. For maintenance use dilute 1 400 (2 teaspoons per gallon of water). This makes 0 025% permethrin ready to use product. Apply using spray that produces large wetting droplets. Apply to the face of the animal in the morning before releasing to pasture. Apply sufficiently to wet the face but not more than 1 5 ounces per animal. Repeat daily as needed.

Poultry Lice

Under normal conditions dilute 4 teaspoons SOLUTIONS PERMETHRIN PBO 10 10 per gallon of water (1 200). This makes 0 05% permethrin ready to use product. For severe infestations use 8 teaspoons per gallon (1 100). This makes 0 1% permethrin ready to use product. For maintenance use dilute 1 400 (2 teaspoons per gallon of water). This makes 0 025% permethrin ready to use product. Spray roosts walls and nests or cages thoroughly followed by spraying over the birds with a fine mist.

Bed Bugs and Mites (including Northern fowl mite) in poultry houses

Under normal conditions dilute 4 teaspoons SOLUTIONS PERMETHRIN PBO 10 10 per gallon of water (1 200). This makes 0 05% permethrin ready to use product. For severe infestations use 8 teaspoons per gallon (1 100). This makes 0 1% permethrin ready to use product. For maintenance use dilute 1 400 (2 teaspoons per gallon of water). This makes 0 025% permethrin ready to use product. Spray into crevices of roost poles cracks in walls and cracks in nests where the bed bugs and mites might hide. Spray birds with a fine mist being sure to cover vents. One gallon should cover 100 birds.

Sheep Tick or Ked

Under normal conditions dilute 4 teaspoons SOLUTIONS PERMETHRIN PBO 10 10 per gallon of water (1 200). This makes 0 05% permethrin ready to use product. For severe infestations use 8 teaspoons per gallon (1 100). This makes 0 1% permethrin ready to use product. For maintenance use dilute 1 400 (2 teaspoons per gallon of water). This makes 0 025% permethrin ready to use product. Dip sheep or spray with sufficient pressure to penetrate the wool. Treat at rate that will thoroughly wet the animal.

Meal Worms Darkling Beetles

Under normal conditions dilute 4 teaspoons SOLUTIONS PERMETHRIN PBO 10 10 per gallon of water (1 200) This makes 0 05% permethrin ready to use product For severe infestations use 8 teaspoons per gallon (1 100) This makes 0 1% permethrin ready to use product For maintenance use dilute 1 400 (2 teaspoons per gallon of water) This makes 0 025% permethrin ready to use product

Apply as a fog or fine mist directing the spray toward the ceiling and upper corners until the area is filled with mist Use about 2 fluid ounces of dilution per 1000 cubic feet of space For best results close doors and windows before spraying and keep closed for 10 to 15 minutes Vacate the treated area and ventilate before re occupying

Blowflies Hog Lice Ticks (including deer ticks that may transmit Lyme disease) on swine

Dilute 8 fluid ounces in 5 gallons of oil Spray dip or apply by sponge 1 pint of dilution per animal especially around the ears (1 100) This makes a 0 1% permethrin ready to use product

Poultry Mites Northern Fowl Mites and Lice

Dilute 8 teaspoons per gallon of water (1 100) This makes a 0 1% permethrin ready to use product Spray at a rate of 1 gallon of spray per 100 birds with a fine mist Spray roosts walls and nests or cages Do not spray to runoff

Fleas, Ticks Lice and Mange Mites (adults and larvae on dogs and livestock)

Under normal conditions dilute 4 teaspoons SOLUTIONS PERMETHRIN PBO 10 10 per gallon of water (1 200) This makes 0 05% permethrin ready to use product For severe infestations use 8 teaspoons per gallon (1 100) This makes 0 1% permethrin ready to use product For maintenance use dilute 1 400 (2 teaspoons per gallon of water) This makes 0 025% permethrin ready to use product

Thoroughly wet the animal by dipping sponging or spraying Allow the animal to dry in a warm place without rinsing or toweling Gives long lasting protection against re infestation Repeat application at intervals of 2 to 3 weeks

DO NOT TREAT PUPPIES LESS THAN TWELVE WEEKS OF AGE DO NOT TREAT CATS OR THEIR BEDDING

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 the signs continue consult a veterinarian immediately Consult a veterinarian before using this product on aged debilitated medicated ill pregnant or nursing animals

Fleas Flies Ticks Lice and Mange Mites (adults and larvae) in kennels doghouses runs and yards

Under normal conditions dilute 3 2 fl oz SOLUTIONS PERMETHRIN PBO 10 10 per gallon of spray dilution (1 39) This makes a 0 25% permethrin ready to use product For severe infestations use 6 4 fl oz per gallon (1 19) This makes a 0 5% permethrin ready to use product For maintenance use dilute 1 100 (8 teaspoons per gallon of water) This makes 0 1% permethrin ready to use product

Spray 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 including carpets Avoid over wetting sensitive fabrics which may cause staining Test sensitive fabrics for possible staining by spraying an inconspicuous spot and allowing to dry 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 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 areas such as animal quarters dairy and beef barns poultry houses swine housing warehouses zoos and other listed livestock or animal housing areas

To kill Flies House Flies Horn Flies Stable Flies Deer Flies Horse Flies Mosquitoes including the Culex species that may carry and transmit the West Nile Virus Gnats Hornets Wasps Yellow Jackets Fire Beets Small Flycatchers Moths Earwigs Fleas Ticks Crickets Cockroaches Silverfish Spiders and other listed insects mix 1 2 gallon (64 fluid ounces) of Permethrin PBO 10 10 in 55 gallons of water to yield a solution of 0 09% permethrin plus 0 09% PBO For high populations of insects or when treating species that are difficult to control mix up to 1 gallon of PERMETHRIN PBO 10 10 in 55 gallons of water to yield a solution of 0 18% permethrin and 0 18% piperonyl butoxide When filling tank partially fill the system reservoir tank with water add concentrates to tank then add water to obtain desired dilution

System nozzles should deliver fine particle size droplets (aerosol or mist). Nozzles should be rated for a delivery rate not to exceed 1.25 fluid ounces of solution per minute, with one nozzle covering 100 square feet. Set system timer to operate in accordance with equipment directions. Automatic spraying systems must not be designed and programmed to release pesticides where feed or water is directly exposed to spray mist.

Personnel should vacate containment treatment areas while treatment is in progress. Treated areas should be thoroughly ventilated prior to re-entry by personnel. Do not use in commercial food/feed handling establishments, restaurants, or other areas where food is commercially prepared or processed.

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.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

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 ¼ 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.

For help with any spill, leak, fire or exposure involving this material, call CHEMTREC 1-800-424-9300.

NOTE: Buyer assumes all risks of use, storage or handling of this product not in strict accordance with label.

WARRANTY STATEMENT

Inova Chemicals LLC warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. It is impossible to eliminate all risks inherently associated with use of this product. Crop injury, 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 Inova Chemicals LLC. To the extent consistent with applicable law, Inova Chemicals LLC shall in no event be liable for consequential, special, or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the Buyer. In addition to the foregoing, no purchaser of this product (other than an end user) shall be entitled to any reimbursement for any loss suffered as a result of any suspension or cancellation of the registration for this product by the U.S. Environmental Protection Agency. Except, as expressly provided herein, Inova Chemicals LLC makes no warranties, guarantees, or representations of any kind, either expressed or implied, or by usage of trade, statutory or otherwise, with regard to the product sold, including, but not limited to merchantability, fitness for a particular purpose, use or eligibility of the product for any particular trade usage. The exclusive remedy of any buyer or user of this product for any and all losses, injuries, or damage resulting from or in any way arising from the use, handling, or application of this product, whether in contract, warranty, tort, negligence, strict liability, or otherwise, shall be damages not exceeding the purchase price paid for this product or, at Inova Chemicals LLC election, the replacement of this product.

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EPA Registration No. 88746-
EPA Establishment No. 88746-TX-001