



Department of Agriculture
STATE OF HAWAII

LICENSED

PERIOD **2014-2016** LIC. NO.

9454.168

Prescription Treatment® brand

OPTASHIELD® CS

Controlled Release Premise Insecticide – AG

Microencapsulated Insecticide

For broad spectrum residual control of crawling, flying and wood-infesting insect pests, indoors and outdoors. This product is intended for use as a general surface, spot, Crack & Crevice® or void application in, on and around buildings and structures and their immediate surroundings, and in trucks, trailers and other transportation vehicles.

ACTIVE INGREDIENT:

Cyfluthrin 6.0%

OTHER INGREDIENTS: 94.0%

TOTAL: 100.0%

EPA Reg. No. 499-477 • EPA Est. No. 7969-MO-1

KEEP OUT OF REACH OF CHILDREN

CAUTION

See inside booklet/back panel for insects and use sites, First Aid, Precautionary Statements, Directions for Use and Storage and Disposal.

NET CONTENTS: 3.75 qt (120 fl oz)



81047125

140123-50

30472316



OPTASHIELD® CS Controlled Release Premise Insecticide – AG

FIRST AID

IF IN EYES: Hold eyes open and rinse slowly and gently with water for 15 - 20 min. Remove contact lenses, if present, after the first 5 min, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 – 20 min. Call a poison control center or a doctor for treatment advice.

HOT LINE NUMBER:

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-832-HELP for emergency medical treatment information.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish and aquatic invertebrates. Remove from premises or tightly cover fish tanks and disconnect aerators when applying indoors where such containers are present. Do not apply when weather conditions favor drift from treated areas. Drift and run-off from treated areas may be hazardous to aquatic organisms in neighboring areas. 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 hr will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run-off to water bodies or drainage systems.

81040292

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STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides or fertilizers. Do not store above 122°F for extended periods of time. Preferred storage is above 32°F. Storage below 32°F may result in solidification. If warmed to above 32°F, product will return to original form. Freezing does not adversely affect this product. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

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

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container! Empty the container by using the product according to the label directions. Triple rinse the container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 sec after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 sec. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 sec after the flow begins to drip. Repeat this procedure 2 more times.

Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Manufactured for:
Whitmire Micro-Gen Research Laboratories, Inc.®
by BASF Corporation
3568 Tree Court Industrial Blvd.
St. Louis MO 63122-6682
Questions? Call 1-800-777-8570

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PERMITTED AREAS OF USE INCLUDE: Calf Hutches, Calving Pens and Parlors, Dairy Areas, Dog Kennels, Hog Barns, Homes, Horse Barns, Milk Rooms, Poultry Houses, Trucks/Trailers, Warehouses and Other Commercial and Industrial Buildings

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DIRECTIONS FOR USE

**IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT
IN A MANNER INCONSISTENT WITH ITS LABELING.
USE RESTRICTIONS**

- Do not apply to humans, their clothing or bedding. Do not allow children or pets to contact treated surfaces until spray has dried.
- Do not use on household pets. Cover fish tanks prior to application.
- Do not apply this product in patient rooms while occupied or in any rooms while occupied by the elderly or infirm.
- Do not apply to classrooms when in use.
- Do not contaminate food, feedstuffs or water supply. Do not contaminate food preparation surfaces, kitchen utensils, dishes or feed storage containers. Cover all food/feed contact surfaces and cooking utensils during treatment or thoroughly wash before using.

- Do not apply water based sprays of this product to conduits, motor housing, junction and switch boxes or other electrical or electronic equipment because of possible shock hazard or damage. Do not spray where electrical short circuits might result, such as wall outlets, conduits, etc.
- Do not make outdoor applications during rain.
- Do not apply this product through any type of irrigation system.
- Do not water the treated area to the point of run-off.
- Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways and patios except as a spot or Crack & Crevice treatment. During application, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters.
- All outdoor applications, if permitted elsewhere on this label, must be limited to spot or Crack & Crevice treatments only, except for the following permitted uses, if allowed elsewhere on this label:
 1. Applications to soil or vegetation, as listed on this label, around structures;
 2. Applications to lawns, turf and other vegetation, as listed on this label;
 3. Applications to the side of a building, up to a maximum height of 3 ft above grade;
 4. Applications to underside of eaves, soffits, doors or windows permanently protected from rainfall by a covering, overhang, awning or other structure;
 5. Applications around potential pest entry points into buildings, when limited to a surface band not to exceed 1" in width;
 6. Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in run-off into storm drains, drainage ditches, gutter or surface waters, in order to control occasional invaders or aggregating pests.
- Do not apply directly to sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies or aquatic habitat can occur, except as directed by this label.

GENERAL INFORMATION

This product is a liquid capsule suspension containing 6% cyfluthrin which will provide extended residual control of the pests listed on this label. This product may be applied using compressed air, backpack, or power spray equipment. Thoroughly clean spray equipment before using this product. Shake concentrate well before mixing. First add approx. 1/2 the required water to the tank, then add the proper amount of concentrate. Agitate, add the remaining water and thoroughly agitate the solution again. When emptying the bottle, triple rinse with water and add the rinsate to the spray tank. Continue to agitate solution occasionally during use to ensure even coverage. Shake or reagituate solution if spraying is interrupted or if dilution is left in sprayer overnight. If spray screens are used they should be ≥50 mesh. Water may be used at temperatures up to 160°F.

This product may be sprayed on any surface which will not be damaged or stained by water. Heavy applications may leave a visible deposit. On some surfaces this deposit can be removed with a damp cloth or sponge.

GENERAL SURFACE APPLICATION

Use 1.0 – 2.0 fl oz of concentrate /1,000 ft² in sufficient water to adequately cover the area being treated, without dripping or run-off. The higher rate should be used for clean-outs, for longer residual control or for heavy insect infestations.

MIXING CHART

| Low Rate - 1.0 fl oz/1,000 ft² | | | |
|--------------------------------------------------|-----------------------|-------------------------------|------------------------|
| Product | Finished Spray | Spray Rate | Coverage |
| 1.0 fl oz | 1 gal | 1 gal/1,000 ft ² | 1,000 ft ² |
| 1.0 fl oz | 2.5 gal | 2.5 gal/1,000 ft ² | 1,000 ft ² |
| 20.0 fl oz | 5 gal | 1 gal/4,000 ft ² | 20,000 ft ² |
| 20.0 fl oz | 20 gal | 1 gal/1,000 ft ² | 20,000 ft ² |
| 20.0 fl oz | 50 gal | 2.5 gal/1,000 ft ² | 20,000 ft ² |

| High Rate - 2.0 fl oz/1,000 ft² | | | |
|---------------------------------------------------|-----------------------|-------------------------------|------------------------|
| Product | Finished Spray | Spray Rate | Coverage |
| 2.0 fl oz | 1 gal | 1 gal/1,000 ft ² | 1,000 ft ² |
| 2.0 fl oz | 2.5 gal | 2.5 gal/1,000 ft ² | 1,000 ft ² |
| 40.0 fl oz | 5 gal | 1 gal/4,000 ft ² | 20,000 ft ² |
| 40.0 fl oz | 20 gal | 1 gal/1,000 ft ² | 20,000 ft ² |
| 40.0 fl oz | 50 gal | 2.5 gal/1,000 ft ² | 20,000 ft ² |

Apply as a coarse wet spray.

Apply to walls, floors, ceilings, in and around cupboards, between, behind, beneath equipment, appliances, around floor drains, window and door frames and light fixtures, and on the underside of shelves, drawers and in similar areas. Applications may also be made to floor surfaces, along walls and around air ducts.

As a perimeter spray to help prevent pest infestations, treat a band of soil 6 - 10 ft wide around and adjacent to the building or structure. Also treat the building foundation and sides, up to a maximum height of 3 ft, where pests are active and may find entrance. Treat other insect entry points such as doors, windows, under siding and eaves of structure.

OUTDOOR TREATMENTS

Follow the instructions for outdoor applications under Use Restrictions. Apply to and around buildings, porches, window frames, eaves, patios, garages, garbage dumps, and other areas where pests congregate or enter premises. As a perimeter treatment, make applications in a manner previously described under General Surface Application.

FLIES: Treat outside surfaces of screens, doors, window frames or wherever flies enter. Also treat surfaces on porches, in garages, and other places where insects alight or congregate. Treat normal fly resting areas such as ceilings, upper corners of the area, around windows and doors, and other surfaces. Treat inside and outside surfaces of dumpsters and other trash holding containers. Treat trash storage areas. Treat so as to lightly moisten the target surface. For best results, begin treatments at the start of the fly season and repeat during periods of heavy fly activity. Treat no more than twice per week and at least 3 days apart.

CRAWLING INSECTS, such as Ants, Cockroaches, Crickets, Earwigs, Sowbugs, and Scorpions: For treatment of infestations of these insects in outdoor areas which are landscaped, planted, mulched or unmaintained. For ants, treat mounds and runways. Repeat applications as infestation warrants and as reinfestation occurs. Apply to cracks and crevices where insects may enter premises. Treat areas such as weep holes, under siding, wall voids, soffits, around attic vents, cracks and crevices, openings around windows, doors and pipes. Treatment of infested fences and tree holes is permitted.

FLEAS: Treat infested areas. This product kills fleas on contact but does not provide residual control.

INDOOR AND OUTDOOR TREATMENTS

CARPENTER ANTS: Make spot and/or Crack & Crevice applications to any trails, inside or outside around doors and windows, and other places where ants enter premises. Treat areas such as atriums, crawl spaces, ceilings, garages, soffits, wall voids, weep holes, and other void areas. Where possible, treat ant nest or infested wood directly.

BEEES, WASPS AND YELLOWJACKETS: As a preventative or remedial treatment to help prevent these insects from building nests or workers from congregating on structures, follow perimeter treatment directions under General Surface Application section of label. Pay particular attention to soffit and eave areas.

For treatment of a yellowjacket or wasp nest, liberally treat the nest, inside the nest for yellowjackets and the surrounding area. For treatment of nests inside wall voids, inject into the nest sufficient quantity to treat the complete nest. More than one point of application may be required. Most applications should require no more than 1/2 gal of diluted material. Pay particular attention to what the product may contact such as electrical wiring. Do not use where there is a shock hazard.

THIS PRODUCT DOES NOT PROVIDE INSTANT KNOCKDOWN. THE BEST TIME TO TREAT IS LATE IN THE DAY. COLONY SHOULD BE DEAD IN 2 - 3 DAYS. DEPENDING ON THE SITUATION, PROTECTIVE EQUIPMENT FOR THE APPLICATOR MAY BE REQUIRED.

USE IN AND AROUND LIVESTOCK HOUSING

For use by pest control operators or livestock producers in livestock housing structures to control flying and crawling insects. Apply as a general surface application and/or spot, Crack & Crevice or void application. Make applications with a low pressure sprayer with suitable nozzles to achieve uniform coverage or with fogging or misting equipment.

SPOT, CRACK & CREVICE OR VOID APPLICATIONS

Mix 1.0 – 2.0 fl oz of concentrate in 1 gal of water. Use the higher rate for clean-outs, for longer residual control or for heavy insect infestations.

| | Product | Finished Spray | A.I. Concentration |
|-----------|-----------|----------------|--------------------|
| Low Rate | 1.0 fl oz | 1 gal | 0.05% |
| High Rate | 2.0 fl oz | 1 gal | 0.10% |

Use a low pressure system with a pin point or variable pattern nozzle to apply the suspension in specific areas such as cracks and crevices in or behind baseboards, in floor walls and expansion joints, areas around water and sewer pipes, wall voids or voids in table legs and equipment where pests can hide as well as other similar areas. Spot treatments may also be made to areas such as storage areas, closets, doors and windows, behind and under refrigerators, cabinets, sinks, stoves and other equipment, the underside of shelves, drawers and similar areas.

INDOOR TREATMENTS

For general indoor pests and occasional invaders, make applications in a manner as previously described under General Surface Application and/or Spot, Crack & Crevice or Void Applications. Pay particular attention to entry points and harborage areas.

Do not use in food/feed areas of food/feed handling establishments, restaurants or other areas where food/feed is commercially prepared or processed. Do not use in serving areas while food/feed is exposed or facility is in operation. Serving areas include areas where prepared foods are served, such as dining rooms, and exclude areas where foods may be prepared or held. In the home, cover all food/feed processing surfaces and utensils during treatment or thoroughly wash before using. Cover or remove exposed food/feed. Nonfood/feed areas are areas such as garbage rooms, rest rooms, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling).

FLIES: Make spot applications on surfaces where flies rest in the dark at night or frequent during the day, such as window frames, screens, trash cans, ceilings and upper wall surfaces.

ANTS: Inject cracks, crevices and voids where ants may be traveling and/or harboring such as around doors, window frames, and other structural cracks, crevices and voids. Spot treatment of trails and feeding areas may also be made.

OTHER CRAWLING INSECTS, such as Centipedes, Cockroaches, Crickets, Dermestids, Earwigs, Firebrats, Millipedes, Psocids, Silverfish, Sowbugs, Spiders: Make spot treatment and/or Crack & Crevice injections into hiding places such as cracks and crevices, void areas, moist areas, openings around pipes and sinks and under refrigerators.

TICKS: Apply as a spot and/or Crack & Crevice treatment in infested and egg laying areas such as pet resting quarters, nearby cracks and crevices, behind baseboards, door and window frames. Replace pet's old bedding with clean, fresh bedding after treatment. Do not treat pets with this product.

Best results are achieved when facilities are cleaned and indoor treatments are supplemented with outdoor perimeter applications.

Do not make indoor applications in areas of facility where animals other than cattle or horses are present. Do not apply directly to animal feedstuffs or watering equipment.

FOGGING OR MISTING APPLICATION: Remove all animals from the facility to be treated. Cover all feeders and waterers, and close all vents, windows and doors. After application, wait 0.5 hr and ventilate facility before entering.

FLIES: For residual control of flies such as house flies and stable flies on outdoor surfaces and in animal areas such as dairy barns, dairy areas, milkrooms, calf hutches, calving pens and parlors, poultry houses, hog barns, horse barns, and kennels. Treat normal fly resting areas such as ceilings, screens, upper corners of the areas, around windows, doors and light fixtures and other surfaces known to attract flies.

Initiate treatments at the beginning of the fly season and repeat during periods of heavy fly activity. Treat no more than twice per week and at least 3 days apart.

DARKLING BEETLES: For residual control of darkling beetles and other insects in poultry houses, at cleanouts and in between poultry grow-out periods.

Use as a general surface application on floors, litter, walls, ceilings, posts and other surfaces where pests live and cause damage.

Use 1.0 – 2.0 fl oz/1,000 ft². Use the high rate for heavy infestations.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in original container in secured dry storage area. Prevent cross-contamination with other pesticides or fertilizers. Do not store above 122°F for extended periods of time. Preferred storage is above 32°F. Storage below 32°F may result in solidification. If warmed to above 32°F, product will return to original form. Freezing does not adversely affect this product. If container is damaged or spill occurs, use product immediately or dispose of product and damaged container as indicated below.

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

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container! Empty the container by using the product according to the label directions. Triple rinse the container (or equivalent) promptly after emptying. Triple rinse as follows:

Empty the remaining contents into application equipment or a mix tank and drain for 10 sec after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 sec. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 sec after the flow begins to drip. Repeat this procedure 2 more times.

Then offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

PESTS CONTROLLED BY THIS PRODUCT:

| | Indoor | | Outdoor | |
|-----------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------------|-----------------------------|
| Crawling | Ants Centipedes Cockroaches Darkling Beetles Dermestids Earwigs | Firebrats Millipedes Psocids Silverfish Sowbugs Spiders | Ants Cockroaches Crickets Fire Ants | Fleas Scorpions Ticks |
| Flying | Flies Gnats Mosquitoes Moths Yellowjackets Wasps | | Bees Flies Hornets Moths Yellowjackets Wasps | |
| Wood-Infesting Pests | Carpenter Ants Beetles | | | |

CONDITIONS OF SALE AND WARRANTY

Follow the **Directions for Use**. It is impossible to eliminate all risks inherently associated with use of this product, and therefore all such risk shall be assumed by the Buyer. Whitmire warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions for Use**, subject to the inherent risks, referred to above. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW: (A) WHITMIRE MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY, (B) BUYER'S EXCLUSIVE REMEDY AND WHITMIRE'S AND SELLER'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT, AND (C) WHITMIRE AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. Whitmire and the Seller offer this product, and the Buyer accepts it, subject to these **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of Whitmire.