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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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OCT 14 1998

Kristin Sobocinski
Whitnire Micro-Gen Research Laboratories, Inc.
3569 Tree Court Ind. Blvd.
St. Louis, MO 63122-6682

Subject: Optasheild CS Controlled Release Premise Insecticide
EPA Registration No. 499-477
Amendment dated September 17, 1998

Dear Ms. Sobocinski:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records. Submit two copies of your final printed labeling before you release the product for shipment.

Sincerely yours,

George T. LaRocca
Product Manager 13
Insecticide Branch
Registration Division (7505C)

CONCURRENCES

SYMBOL								
SURNAME								
DATE								

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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.

General Information

Optashield CS is a liquid capsule suspension containing 6% of 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 approximately one-half the required water to the tank, then add the proper amount of Opatashield CS. 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 re-agitate solution if spraying is interrupted or if dilution is left in sprayer overnight. If spray screens are used they should be 50 mesh or larger. Water may be used at temperatures up to 160 degrees F.

Optashield CS 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.

Do not apply this product through any type of irrigation system and do not formulate this product into other end-use products.

Do not apply water-based sprays of this product to conduits, motor housing, junction and switch boxes or other electrical equipment because of possible shock hazard.

General Surface Application

Use 1.0 to 2.0 fl. oz. of Opatashield CS per 1,000 sq. ft. 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

<u>OptashieldCS</u>	<u>Finished Spray</u>	<u>Spray Rate</u>	<u>Coverage</u>
Low Rate - 1.0 fl. oz. per 1,000 sq. ft.			
1.0 fl. oz.	1 gallon	1 gal/1,000 sq. ft.	1,000 sq. ft.
1.0 fl. oz.	2.5 gallons	2.5 gal/1,000 sq. ft.	1,000 sq. ft.
20.0 fl. oz.	20 gallons	1 gal/1,000 sq. ft.	20,000 sq. ft.
20.0 fl. oz.	50 gallons	2.5 gal/1,000sq.ft.	20,000 sq. ft.

High Rate - 2.0 fl. oz. per 1,000 sq. ft.

2.0 fl. oz.	1 gallon	1 gal/1,000 sq. ft.	1,000 sq. ft.
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2.0 fl. oz.	2.5 gallons	2.5 gal/1,000 sq. ft.	1,000 sq. ft.
40.0 fl. oz.	20 gallons	1 gal/1,000 sq. ft.	20,000 sq. ft.
40.0 fl. oz.	50 gallons	2.5 gal/1,000 sq. ft.	20,000 sq. ft.

Apply as a coarse wet spray.

Applications can be made 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 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 to 10 feet wide around and adjacent to the building or structure. Also treat the building foundation and sides where pests are active and may find entrance. Treat other insect entry points such as doors, windows, under siding and eaves of structure.

Spot, or Crack and Crevice or Void Applications

Mix 1.0 to 2.0 fl. oz. of Optashield CS in one gallon of water.

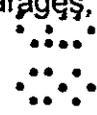
The higher rate should be used for clean-outs, for longer residual control or for heavy insect infestations.

<u>Optashield CS</u>	<u>Finished Spray</u>	<u>a.i. concentration</u>
Low Rate		
1.0 fl. oz.	1 gallon	0.05%
High Rate		
2.0 fl. oz.	1 gallon	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 including but not limited to 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, or Crack and Crevice or Void Applications. Particular attention should be given to treating 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, all food/feed processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food/feed should be covered or removed. Non-food/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 of Optashield® CS 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, including but not limited to, 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, including but not limited to Centipedes, Cockroaches, Crickets, Dermestids, Earwigs, Firebrats, Millipedes, Psocids, Silverfish, Sowbugs, Spiders: Make spot treatment and/or Crack and Crevice® injections into hiding places such as cracks and crevices, void areas, moist areas, openings around pipes and sinks and under refrigerators. Repeat as necessary.

Ticks: Apply as a spot and/or crack and 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. Repeat application as necessary.

OUTDOOR TREATMENTS

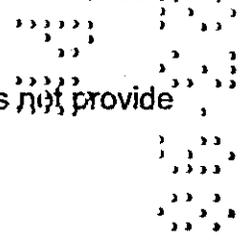
Optashield CS can be used as a General Surface Application on and around outdoor surfaces and/or a Spot or Crack and Crevice or Void Application treatment of buildings, porches, window frames, eaves, patios, garages, garbage dumps, and other areas where pests congregate or enter premises.

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 light or congregate. Repeat as necessary. 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.

Crawling Insects, including but not limited to 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 reinfestations occur. Apply Optashield CS to cracks and crevices where insects may enter premises. Areas to be treated, include, but are not limited to, 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. Optashield CS will kill fleas on contact but does not provide residual control.



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INDOOR AND OUTDOOR TREATMENTS

Carpenter Ants: Make spot and/or crack and crevice applications to any trails, inside or outside around doors and windows, and other places where ants enter premises. Areas which may be treated include but are not limited to atriums, crawl spaces, ceilings, garages, soffits, wall voids, weep holes, and other void areas. Where possible, treat ant nest or infested wood directly. Repeat application as necessary.

Bees, 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 maybe required. Most applications should require no more than half a gallon of diluted material. Pay particular attention to what the water may contact such as electrical wiring. Do not use where there is a shock hazard.

OPTASHIELD CS 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 or Crack and Crevice or Void Application. Make applications with a low pressure sprayer with suitable nozzles to achieve uniform coverage or with fogging or misting equipment. Control will be enhanced 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 feeder and waters, and close all vents, windows and doors. After application, wait one half hour 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. As a general surface application 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.

For best results initiate treatments at the beginning of the fly season and repeat as necessary during periods of heavy fly activity.

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 to 2.0 oz.'s per 1,000 sq. ft. Use the high rate for heavy infestations.

Pest Controlled By Optashield CS

	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	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

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 contaminate food or 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.

Avoid contamination of food, feedstuffs, or water supply. Do not contaminate food preparation surfaces, kitchen utensils, dishes, or feed storage containers. All food/feed contact surfaces and cooking utensils should be covered during treatment or thoroughly cleaned before using. Do not spray where electrical short circuits might result, such as wall outlets, conduits, etc.

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 directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor

