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Systems Integration Group, Inc.

449-304

7/6/2000

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Whitmire
OPTEM
PT® 600 Microencapsulated Insecticide

ACTIVE INGREDIENT:
Cyfluthrin 6.0%

OTHER INGREDIENTS: 94.0%

EPA Reg. No. 499-304 EPA Est. No. 499-MO-1
KEEP OUT OF REACH OF CHILDREN
CAUTION

See supplemental label for additional Precautionary Statements and Directions for Use.

NET CONTENTS: 1 Pint

PT 600 Container Label v7.0 5/00



WHITMIRE MICRO-GEN
RESEARCH LABORATORIES, INC.
3568 Tree Court Industrial Blvd.
St. Louis MO 63122-6692

ACCEPTED

JUL - 6 2000

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 449-304

ORNAMENTALS: Treat upper and lower foliage surfaces of plants uniformly. Use 4 to 6 fl. oz. of OPTEM® per 100 gallons of water.

LAWNS (RESIDENTIAL SITES ONLY): Use a coarse, low-pressure spray using suitable application equipment. Use 0.5-1.0 fl. oz. per 1,000 sq. ft.

SPECIAL NOTICE: This product has demonstrated excellent plant safety; however, all varieties of the plants listed have not been tested. When treating large numbers of plants of a single variety, treat a few plants and observe for phytotoxicity prior to full scale application.

Direct Treatment to some open blooms may cause petal drop.

FOR USE INDOORS AND OUTDOORS ON:

BEDDING PLANTS (including): Impatiens, Marigolds, Petunias, Geraniums, Garden Murns, Verbena, New Guinea Impatiens, and Dahlia.

CUT FLOWERS (including): Roses, Chrysanthemums, Carnations, Snapdragons, and Orchids.

FLOWERING HANGING BASKETS (including): Fuchsia and Lantana.

FOLIAGE (including): Boston Fern, Dracaena, Ficus, Schefflera, and Philodendron,

POTTED FLOWERING PLANTS (including): Poinsettia, Chrysanthemums, Florist's Azaleas, Lilies, African Violets, Geraniums, Hibiscus, Kalanchoes, Begonias, Gloxinia, Cyclamen, Cineraria, Calceolaria, and Eucalum.

TREES & SHRUBS (including): Azalea, Barberry, Coloneaster, Euonymus, Holly, Ivy, Juniper, Oak, Pine, Rhododendron, Roses, Spiraea, Spruce, Viburnum, and Yew. Do not treat vegetable gardens.

USE IN AND AROUND LIVESTOCK HOUSING

MAY BE USED IN AND ON OUTSIDE SURFACES OF OTHER BUILDINGS. Do not apply to lactating or food animals. Do not contaminate milk, food or drinking water. Remove all animals prior to making application to housing. Do not apply or allow insecticide to drift onto animals. Do not allow animals to enter treated areas until surfaces are dry.

HOUSE FLIES AND STABLE FLIES: For residual control of these pests on outdoor surfaces and in animal areas such as dog kennels, hog barns, horse barns, empty chicken houses, rabbit hutches, dairy areas, milkrooms, calf hutches, calving pens and parlors: Treat normal fly resting areas such as ceilings, screens, upper corners of the area, around windows and doors, light fixtures and other surfaces known to attract flies. Apply as a coarse wet spray. Using a mixture of 1 fl. oz. of OPTEM® per gallon of water, apply at a rate of 1 gallon diluted product per 1,000 sq. ft. of surface. For best results 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.

PERIMETER TREATMENT: For control of other pests and to help prevent infestations of buildings, treat a band of soil 6 to 10 feet wide around and adjacent to the building. 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. OPTEM® may be applied in compressed air, backpack or power spray equipment. An application rate of 1.0 fluid ounces of OPTEM® per 1000 sq. ft. is desirable. Apply in sufficient water to adequately cover the area being treated, but do not allow dripping or run-off to occur.

STORAGE AND DISPOSAL

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

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: Do not re-use empty container. Triple rinse, wrap container and put in trash.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 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. Any food/feed contact surfaces and cooking utensils in the treatment area 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 drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters. Apply this product only as specified on this label.

A PRESCRIPTION TREATMENT® brand Insecticide from:

Whitmire Micro-Gen Research Laboratories, Inc.
3568 Tree Court Industrial Blvd.
St. Louis MO 63122-6682
www.wmrg.com

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Whitmire OPTEM® PT® 600 Microencapsulated Insecticide

PT® 600 Microencapsulated Insecticide

Recommended for Use by Commercial Applicators.

KILLS: Ants, Bees, Boxelder Bugs, Carpenter Ants, Carpenter Bees, Centipedes, Chocolate Moths, Clover Mites, Cluster Flies, Cockroaches, Crickets, Darkling Beetles, Dermestids, Drugstore Beetles, Earwigs, Elmleaf Beetles, Fire Ants, Firebrats, Fleas, Flies, Flour Beetles, Grain Weevils, Hornets, Millipedes, Scorpions, Silverfish, Sowbugs, Spiders, Springtails, Termites, Ticks, Yellowjackets, Wasps, Wood Wasps, Wood Infesting Borers and Beetles.

FOR USE IN AND AROUND: Apartments, Calf Hutches, Calving Pens and Parlors, Campgrounds, Empty Chicken Houses, Dairy Areas, Dog Kennels, Food Storage Areas, Hog Barns, Homes, Horse Barns, Hospitals, Hotels, Inedible Product Areas of Meat Packing Plants, Non-Food/Feed Areas of Food Processing Plants, Milkrooms, Motels, Nursing Homes, Rabbit Hutches, Resorts, Restaurants and other Food Handling Establishments, Schools, Supermarkets, Transportation Equipment (Buses, Boats, Ships, Trains, Trucks, Planes), Utilities, Warehouses, Commercial and Industrial Buildings.

* Do not use in aircraft cabins.

ACTIVE INGREDIENT:

Cyfluthrin 6.0%

OTHER INGREDIENTS:

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EPA Reg. No. 499-304 EPA Est. No. 499-MO-1

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

IF SWALLOWED: Call a 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: 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.

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

See page 4 for additional Precautionary Statements.



WHITMIRE MICRO-GEN
RESEARCH LABORATORIES INC.
800-777-8570

Whitmire OPTEM® PT® 600 Microencapsulated Insecticide - Page 2 of 3 (Supplemental Label)
Note: Master Label consists of Container Label plus Supplemental Label.

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OPTEM® PT® 600 Microencapsulate Insecticide

DIRECTIONS FOR USE

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

GENERAL INFORMATION

OPTEM® Microencapsulated Insecticide is a flowable microencapsulated concentrate containing 0.5 lb. of cyfluthrin per gallon. OPTEM® may be used 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.

In situations where conventional application methods have not or are not likely to provide adequate coverage, foam generating equipment or similar machines can be used to provide a continuous coverage. Use drier foam inside wall voids to avoid any water damage or electrical short circuits.

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.

Do not apply in aircraft cabins.

MIXING INSTRUCTIONS

Thoroughly clean spray equipment before using OPTEM®. Shake concentrate well before diluting. When diluting, first add approximately one-half of the water to the spray tank and then add the proper amount of OPTEM®. When emptying the bottles, triple rinse with water, shake well and add the rinsate to the spray tank. Add the rest of the water and agitate the sprayer thoroughly. Agitate sprayer occasionally during use to ensure even mixture. Shake or re-agitate sprayer if spraying is interrupted or if dilution is left in sprayer overnight. If spray screens are used, they should be 50 mesh or larger.

SPRAY DILUTION CHART

Amount of Finished Spray	Spray Concentration	
	0.05% Spray	0.10% Spray
1 gallon	1.0 fl. oz.	2.0 fl. oz.
3 gallons	3.0 fl. oz.	6.0 fl. oz.
5 gallons	5.0 fl. oz.	10.0 fl. oz.
10 gallons	10.0 fl. oz.	20.0 fl. oz.

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

INDOOR TREATMENTS

Dilute OPTEM® to 0.05% or 0.1% with water using the spray dilution chart.

OPTEM® should be used as a Crack and Crevice® residual product where insects may be hiding, living and breeding and/or for selected spot application.

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 are areas where prepared foods are served such as dining

rooms but excluding areas where foods may be prepared or held. In the home, all food/feed processing surfaces and utensils in the treatment area 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, restrooms, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling).

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, but not more than twice per week. Treatments must be at least 3 days apart.

FLIES: Make spot applications of OPTEM® 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.

CARPET BEETLES (Dermestids): Treat along edges of carpet, under carpet edge, furniture, throw rugs and as a Crack and Crevice® application in closets and other shelving where infested items are stored. Do not treat clothing with this product. Repeat application as necessary, but not more than twice per week. Treatments must be at least 3 days apart.

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, but not more than twice per week. Treatments must be at least 3 days apart.

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.

INDOOR AND OUTDOOR TREATMENTS

Select one of the following dilutions, 0.05% or 0.1%, for insects listed below unless otherwise noted.

HIBERNATING STAGES OF BOXELDER BUGS, ELMLEAF BEETLES, CLUSTER FLIES AND CLOVER MITES: Inject cracks, crevices and/or voids where these insects may be harboring or hibernating. Infested areas include, but are not limited to, cracks and crevices in weep holes, wall voids, around window and door frames, and under siding. Treat wall area around entry points on exterior where insects congregate. Repeat application as necessary, but not more than twice per week. Treatments must be at least 3 days apart.

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, attics, 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, but not more than twice per week. Treatments must be at least 3 days apart.

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 outdoor 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 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.

OPTEM® 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.

WOOD DESTROYING INSECTS

LOCALIZED TREATMENT OF WOOD-INFESTING INSECTS - Beetles and Borers (such as the following families): Anobiidae, Bostriichidae, Buprestidae, Cerambycidae, Lyctidae, Oedemeridae, Sesiidae) and Termites: Locate suspected infestation and/or insect tunnels and cavities. Drill pilot holes into insect tunnels, gallery and inaccessible closed voids. Drill holes 8 to 10 inches apart to ensure thorough coverage. Inject 5 to 10 seconds per hole. Do not contact electrical wiring, plumbing, etc. Use the 0.05% or 0.1% rate.

TERMITES: To inhibit termite infestations, treat exposed tubing, cracks or cold joints in concrete or other structural interstices. Treatment of exposed surfaces should be done to cover thoroughly but excess run-off should be avoided. This type of application is intended to be a supplemental treatment for control of drywood and above ground subterranean termites and other wood-infesting insects. It is not intended to be a substitute for soil treatment or for extensive infestation of drywood or other wood-infesting insects. Use a 0.125% rate, 2.5 fl. oz. of concentrate per gallon of water. To treat for severe infestations or for treatments under slabs, in basements and buildings with insufficient crawlspace, use a registered termiticide.

OUTDOOR TREATMENTS

KILLS: Ants, Boxelder Bugs, Carpenter Ants, Carpenter Bees, Carpet Beetles, Centipedes, Clover Mites, Cluster Flies, Cockroaches, Crickets, Dermestids, Earwigs, Elmleaf Beetles, Fleas, Flies, Millipedes, Psocids, Scorpions, Silverfish, Sowbugs, Spiders and Ticks.

OPTEM® can be used as a residual treatment on outdoor surfaces and/or as a crack, crevice and void treatment of buildings, porches, window frames, eaves, patios, garages, garbage dumps and other areas where pests congregate or enter premises. Repeat treatment as necessary to maintain effectiveness, but not more than twice per week. Treatments must be at least 3 days apart. Use the 0.05% or 0.1% rate.

OPTEM® can be used as a residual treatment to control pests in outdoor void areas such as meter boxes and manholes. Repeat treatment as necessary, but not more than twice per week. Treatments must be at least 3 days apart. Use the 0.05% or 0.1% rate.

PERIMETER TREATMENT: To help prevent infestations of buildings, treat a band of soil 6 to 10 feet wide around and adjacent to the building. Also treat the building foundation to a height of 2 to 3 feet where pests are active and may find entrance. Treat other insect entry points such as doors, win-

dows, under siding and eaves of structure. OPTEM® may be applied in compressed air, backpack or power spray equipment. An application rate of 0.5 to 2.0 fl. oz. of OPTEM® per 1000 sq. ft. is desirable. Apply in sufficient water to adequately cover the area being treated, but do not allow dripping or run-off to occur. Alternate directions are to use 4 to 8 fl. oz. of product per 50 gallons of water.

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 might congregate. Repeat as necessary. Treat non-metal 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.

CARPENTER BEES: Locate entrance holes. Treat galleries through entrance holes. Seal bee entrances after application.

SCORPIONS: Remove accumulations of lumber, firewood, and other materials which serve as harborage sites. Before stacking firewood or lumber, apply this product as a residual spray to surfaces immediately below such materials. Band treatment may also be helpful in reducing pests immigrating from surrounding areas.

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 unmainained. For ants, treat mounds and runways. Repeat applications as infestation warrants and as reinfestations occur. Apply OPTEM® 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. OPTEM® will kill fleas on contact but does not provide residual control.

LAWN AND ORNAMENTAL PLANTS

FOR USE INDOORS AND AT RESIDENTIAL OUTDOOR SITES ONLY: Hobby Greenhouses, Interiorscapes, Landscapes, Lawns and Residential Lawns.

Not for use in commercial greenhouses and nurseries.

KILLS: Ants, Aphids, Armyworms, Bagworms, Bees, Beetles, Billbugs (adults), Boxelder Bugs, Caterpillars, Centipedes, Chiggers, Chinch Bugs, Clover Mites, Crickets, Cutworms, Earwigs, Firebrats, Flies, Fruitworm, Fungus Gnats, Fungus Gnat Larvae, Grasshoppers, Japanese Beetle (adults), Lace Bugs, Leafminers, Leafrollers, Loopers, Mealy Bugs, Millipedes, Mosquitoes, Pillbugs, Plant Bugs, Psylla, Scale Insects, Scorpions, Sod Webworms, Sowbugs, Spiders, Tent Caterpillars, Thrips, Ticks, Wasps and Yellowjackets.

For trees, shrubs, foliage plants and flowers in outdoor landscaped areas (such as parks, recreational areas, athletic fields, institutional groups, etc.) and internal landscaped areas (such as in hotels, shopping malls, office buildings, etc.) where these plants are grown. OPTEM® also controls designated pests in home lawns and can also be used in areas adjacent to or at the edge of landscaped areas to control encroaching pests such as ticks. Apply specified rate, at lawn use dosage, to tall grass or weeds, under brush and trees or in areas of no maintenance. Follow all restrictions and precautions in other parts of this label.

Whitcomb Optem® PT® 600 Microencapsulated Insecticide - Page 3 of 3 (Supplemental Label)

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