



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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

MAY 30 2008

Ms. Dana Thomas
Product Registration Manager
Whitmire Micro-Gen Research Laboratories, Inc.
3568 Tree Court Industrial Boulevard
St. Louis, MO 63122-6682

Subject: Label Notifications for Pesticide Registration Notice 2007-4

Dear Ms. Thomas,

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated April 24, 2008 for the product Whitmire Optem PT 600 Microencapsulated Insecticide (EPA Registration Number 499-304). The revised label adequately incorporates the comments provided by the Agency in George LaRocca's letter dated 2/26/08. The Registration Division (RD) has conducted its review of this request for its applicability under PRN 2007-4 and finds that the label changes requested fall within the scope of PRN 2007-4. The label submitted with the application has been stamped "Notification" and will be placed in our records.

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

If you have any questions, please call me directly at 703-305-6249 or Steve Schaible of my staff at 703-308-9362.

Sincerely,

A handwritten signature in black ink, appearing to read "Linda".

Linda Arrington
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs



United States
Environmental Protection Agency
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 499-304	2. EPA Product Manager George LaRocca	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Whitmire Optem PT 600 Microencapsulated Insecticide	PM# 13	
5. Name and Address of Applicant (Include ZIP Code) Whitmire Micro-Gen Research Laboratories, Inc. 3568 Tree Court Industrial Blvd. St. Louis, MO 63122-6682 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to 2/26/08 Agency letter dated _____ "Me Too" Application.
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> Other - Explain below.
<input checked="" type="checkbox"/> Notification - Explain below.	

Explanation: Use additional page(s) if necessary. (For section I and Section II.)
Two (2) copies final printed labeling in response to Agency letter dated 2/26/08. Includes revision, via Notification, of Container Disposal per PRN 2007-4 as requested in Agency letter 2/26/08.
This notification is consistent with the guidance in R Notices 2007-1 and 2007-4 and the requirements of EPA's regulations at 40 CFR 156.10 and 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
				<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
				<input type="checkbox"/> Other (Specify) _____	
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt.	No. per container
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 16 floz-30 gal		5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____					

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Dana Thomas	Title Product Registration Mgr	Telephone No. (Include Area Code) 636-861-4223
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature <i>Dana M Thomas</i>	3. Title Product Registration Mgr	
4. Typed Name Dana M. Thomas	5. Date Apr 24, 2008	

**WHITMIRE
OPTEM®
PT® 600 MICROENCAPSULATED INSECTICIDE**

[ALTERNATE BRAND NAME #1: "Prescription Treatment brand CY-KICK CS"

DESCRIPTOR: "Controlled Release Cyfluthrin"] (added via Notification 10/19/99)

[ALTERNATE BRAND NAME #2: "Optashield CS Controlled Release Premise Insecticide"] (added via Notification 11/15/96)

[ALTERNATE BRAND NAME #3: "Prescription Treatment brand Optashield CS Controlled Release Premise Insecticide"] (added via Notification 11/6/96)

[ALTERNATE BRAND NAME #4: "Prescription Treatment brand Optem Cyfluthrin Capsule Suspension Formula 1"] (added via Notification 11/8/96)

[ALTERNATE BRAND NAME #5: "Optem Cyfluthrin Capsule Suspension Formula 1"] (added via Notification 9/27/96)

[ALTERNATE BRAND NAME #6: "Prescription Treatment Brand Optashield CS"] (added via Notification 9/16/96)

ACTIVE INGREDIENT:

Cyfluthrin..... 6.0%

OTHER INGREDIENTS: 94.0%

TOTAL: 100.0%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See complete label for additional Precautionary Statements.

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

NET CONTENTS: _____



WHITMIRE MICRO-GEN
RESEARCH LABORATORIES INC.
800-777-8570 www.wmmg.com

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OPTEM®
PT® 600 MICROENCAPSULATED INSECTICIDE**

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KILLS:

Ants, Aphids, Armyworms, Asian Lady Bugs, Bagworms, Bed Bugs, Bees, Beetles, Billbugs (adults), Boxelder Bugs, Cadelles, Carpenter Ants, Carpenter Bees, Carpet Beetles, Caterpillars, Centipedes, Chiggers, Chinch Bugs, Chocolate Moths, Cigarette Beetles, Clover Mites, Cluster Flies, Cockroaches, Crickets, Cutworms, Darkling Beetles, Dermestids, Drugstore Beetles, Earwigs, Elm Leaf Beetles, Fire Ants, Firebrats, Fleas, Flies, Flour Beetles, Fruitworms, Fungus Gnats, Fungus Gnat Larvae, Grain Weevils, Grasshoppers, Hide Beetles, Hornets, House Flies, Indian Meal Moths, Japanese Beetles (adults), Lace Bugs, Larder Beetles, Leafminers, Leafrollers, Lesser Grain Borers, Lesser Mealworms, Loopers, Mealy Bugs, Mediterranean Flour Moths, Merchant Grain Beetles, Mealworms, Millipedes, Mosquitoes, Pillbugs, Plant Bugs, Psocids, Psylla, Rice Weevils, Sawtoothed Grain Beetles, Scale Insects, Scorpions, Silverfish, Sod Webworms, Sowbugs, Spiders, Springtails, Stable Flies, Tent Caterpillars, Termites, Thrips, Ticks, Yellowjackets, Warehouse Moths, 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, Grain Mills, Granaries, Hog Barns, Homes, Horse Barns, Hospitals, Hotels, Meat Packing Plants, 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: 94.0%

TOTAL: 100.0%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

FIRST AID

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 doctor for treatment advice.

IF IN EYES: Hold eye 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 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also call 1-800-225-3320 for emergency medical treatment information.

See page 2 for Precautionary Statements, Directions for Use and Storage and Disposal.

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



WHITMIRE MICRO-GEN
RESEARCH LABORATORIES INC.
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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.

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.

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. Refer to section entitled "Foam Application Use Directions".

- Do not apply this product through any type of irrigation system.
- 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 spray where electrical short circuits might result, such as wall outlets, conduits, etc.
- Do not apply in aircraft cabins.
- 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.

MIXING INSTRUCTIONS

Thoroughly clean spray equipment before using Optem. Shake concentrate well before diluting. When diluting, first add approximately 1/2 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 reagitater 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.

VOID / CRACK & CREVICE APPLICATION

To treat insects harbored in voids and in cracks and crevices, apply with equipment designed for void applications. Follow the manufacturer's recommendations for proper equipment set up and operating pressures. Place the tip of the applicator at or into the crack or crevice to be treated. Apply product in short bursts while keeping tip in position. Allow the air stream to push insecticide deep into voids. Application should be made in such a manner to limit dripping and run-off on structural surfaces and plants.

INDOOR TREATMENTS

Dilute Optem to 0.05% or 0.10% with water using the spray dilution chart.

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

When using in food/feed areas of food/feed handling establishments, restaurants or other areas where food/feed is commercially prepared or processed, refer to the section entitled "Food/Feed Areas of Food Handling Establishments" for use directions. 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 & 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 & 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.

BED BUGS: Apply to cracks and crevices where evidence of bed bugs occurs. This includes bed frames, box springs, inside empty dressers and clothes closets, carpet edges, high and low wall moldings and wallpaper edges. Do not use this product on mattresses, pillows, bed linens or clothes. Remove all clothes and other articles from dressers or clothes closets before application. Allow all treated areas to dry thoroughly before use. Not recommended for use as sole protection against bed bugs. If evidence of bed bugs is found in/on mattresses, use a product approved for this use.

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. 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.

STORED PRODUCT PESTS (EXPOSED ADULT AND IMMATURE STAGES): Before storing products, treat warehouses, production facilities, storage areas, rail cars, truck beds and other areas where products are stored with Optem. Apply as a spot and/or Crack & Crevice treatment to cracks, crevices and surfaces where pests have been seen or may have harborage. Optem may be used to treat grain storage facilities and other listed areas for stored product pest control. Cleaning areas prior to use of this product will increase levels of control. Any foodstuffs infested with pests should be removed and destroyed.

FOAM APPLICATION USE DIRECTIONS: Optem can be converted to a foam and the foam used to treat structural voids to control insect and arthropod pests in walls, under slabs or in other void areas. Apply as a dry foam (approximately 25:1). Fill void with foam so that all surfaces are contacted. Mix end-use dilution of Optem with manufacturer's recommended volume of foaming agent. Use the recommended rate suspension converted to a foam to achieve the desired foam expansion ratios. Verify before treatment that the foaming agent is compatible with Optem.

FOOD/FEED AREAS OF FOOD/FEED HANDLING ESTABLISHMENTS

Optem applications are permitted in food/feed areas of food/feed handling establishments as a General Surface Application, Spot or Crack & Crevice Treatment. Food/feed handling establishments are defined as places other than private residences in which exposed food/feed is held, processed, prepared or served. Food/feed areas are areas for receiving, storing, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups) of food. Serving areas where food is exposed and the facility is in operation are also considered food areas.

GENERAL SURFACE APPLICATION: Do not apply as a general surface application in the food/feed handling areas of the facility when the facility is in operation or foods are exposed. Do not apply directly to food products. Cover or remove all food processing and/or handling equipment during application. After application in food processing plants, bakeries, cafeterias and similar facilities, wash all equipment, benches, shelving and other surfaces which food will contact. Clean food handling or processing equipment and thoroughly rinse with clean, fresh water.

SPOT AND CRACK & CREVICE APPLICATION: Spot or Crack & Crevice applications may be made while the facility is in operation; however, food should be covered or removed from area being treated. Do not apply directly to food or food handling surfaces. May be used in federally inspected meat and poultry plants.

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INDOOR AND OUTDOOR TREATMENTS

Select one of the following dilutions, 0.05% or 0.10%, for insects listed below unless otherwise noted.

HIBERNATING STAGES OF ASIAN LADY BUGS, BOXELDER BUGS, ELM LEAF 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 & 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, but not more than twice per week. Treatments must be at least 3 days apart.

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 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 1/2 gal 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, Bostrichidae, 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 - 10" apart to ensure thorough coverage. Inject 5 - 10 sec per hole. Do not contact electrical wiring, plumbing, etc. Use the 0.05% or 0.10% 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, Asian Lady Bugs, Boxelder Bugs, Carpenter Ants, Carpenter Bees, Carpet Beetles, Centipedes, Clover Mites, Cluster Flies, Cockroaches, Crickets, Dermestids, Earwigs, Elm Leaf Beetles, Fleas, Flies, Grasshoppers, Millipedes, Mosquitoes, Psocids, Scorpions, Silverfish, Sowbugs, Spiders and Ticks

Not for use in outdoor residential misting systems.

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 0.10% 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 0.10% rate.

PERIMETER TREATMENT: To help prevent infestations of buildings, treat a band of soil 6 - 10 ft wide around and adjacent to the building. Also treat the building foundation to a height of 2 - 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. Optem may be applied in compressed air, backpack or power spray equipment. An application rate of 0.5 - 1.0 fl oz/1,000 ft² is desirable. Apply in sufficient water to adequately cover the area being treated. Application should be made in such a manner to limit dripping and run-off on structural surfaces and plants. Alternate directions are to use 4 - 8 fl oz/50 gal of water.

SUGGESTED MIXING CHART FOR LARGER TANK SIZES

Tank Size (Gallons)	Suggested Amount of Optem per Tank (fl oz)
15	1.5 - 2.5
25	2.0 - 4.0
50	4.0 - 8.0
100	8.0 - 16.0

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. Treat no more than twice per week and at least 3 days apart.

MOSQUITO CONTROL OUTDOORS: Not for use in wide area local, state or federal mosquito control programs. To control adult mosquitoes, use handheld, back-pack or truck mounted sprayers only. Not for use with truck mounted cold aerosol ULV sprayers, handheld cold aerosol ULV sprayers or thermal fogging devices. Do not apply by aircraft. Do not apply through any kind of irrigation and/or lawn sprinkler systems. Use up to 150 gallons of diluted spray per acre. Treat shrubbery, vegetation and other areas where mosquitoes may rest. Shrubby and vegetation around stagnant pools, marshy areas, ponds and shorelines may be treated if applied as a wet spray. Direct application of this product to any body of water is prohibited.

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.

YELLOWJACKET CONTROL OUTDOORS

BAIT PREPARATION AND DISPENSER DISTRIBUTION: To 100g of bait matrix, add 2.0g of Optem and mix thoroughly. This amount of bait is sufficient for one dispenser. Do not mix more than the recommended amount of Optem to the desired bait or yellowjacket avoidance may occur.

Mix only enough bait for immediate use in the desired number of dispensers. Add bait to each dispenser until it reaches about midway between the container bottom and the access holes. Hang the dispenser, preferably in a sunny location, from a tree limb or other suitable support around the periphery of the area to be protected and at heights inaccessible to children and pets. Since the bait is meat based, wildlife may be attracted to it. Placement of the bait and how the dispenser is attached should be such to make it difficult for it to be removed or consumed by wildlife. Attaching the bait dispenser to the surface in two places so it cannot be beat around or easily removed is recommended if wildlife is a concern. For best results, use 3 - 4 dispensers/acre or place them about 100 ft apart.

REAPPLICATION AND BAIT LONGEVITY: Replenish dispensers with fresh bait as long as yellowjackets are present. Unused bait will probably be unattractive to yellowjackets after a few days, especially if temperatures are above 90°F. If possible, stir bait once each day before yellowjacket activity begins in order to bring fresh bait to the surface. If pest yellowjackets reappear in late summer, retreat the area. Properly dispose of any unused or stale bait. Do not reuse dispensers for any other purpose.

BAIT ATTRACTIVENESS: Attractiveness of baits to yellowjackets is highly variable and is dependent on such factors as stage of reproductive cycle, type of bait, quality of bait, etc. Before using Optem, it is recommended that bait preference be determined by placing several candidate baits in allocation where yellowjacket activity is occurring. By observing the visitation frequency for a short time, preference will become apparent.

BAIT DISPENSER: In a 4 - 6 oz non-food container with a removable top, drill 3 - 6 holes 5/8" - 11/16" in diameter around the top of the container and 2 small holes (for attaching wire) in the top.

DISPENSER MARKING: Mark dispenser with at least the following information:

CAUTION

Contains bait mixed with Whitmire Optem PT 600 Microencapsulated Insecticide [ABN], (Cyfluthrin)
EPA Reg. No. 499-304



BAIT SOURCES AND SUGGESTIONS: Optem is recommended for use with any of the attractants from the categories listed below. In order to maximize efficiency, particles of the selected bait should be reduced to 1/8" diameter or smaller. If any bait is dry after preparation, add sufficient water to increase the total moisture content.

CANNED PET FOODS: Cat food containing fish is generally the most attractive bait, although meat and poultry products are usually suitable.

FRESH MEAT, FISH, AND POULTRY: Hamburger or salmon is generally the most attractive bait. The selected product should be cooked until the red color barely disappears. Some products, like red salmon, will retain a red color even after cooking. All traces of free grease should be removed.

CANNED MEAT, FISH, POULTRY AND PROCESSED MEATS (HAM, COLD CUTS, ETC.): These products are often very attractive to yellowjackets and need not be cooked.

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 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.

ORNAMENTALS: Treat upper and lower foliage surfaces of plants uniformly. Use 4 – 6 fl oz/100 gal of water.

LAWNS (RESIDENTIAL SITES ONLY): Use a coarse, low-pressure spray using suitable application equipment. Use 0.5 – 1.0 fl oz/1,000 ft².

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 Mums, 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 Exacum

Trees & shrubs (including): Azalea, Barberry, Cotoneaster, Euonymus, Holly, Ivy, Juniper, Oak, Pine, Rhododendron, Roses, Spiraea, Spruce, Virburnum, 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 1,000ft² 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 – 10 ft 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 fl oz of Optem per 1,000 ft² is desirable. Apply in sufficient water to adequately cover the area being treated. Application should be made in such a manner to limit dripping and run-off on structural surfaces and plants.

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

[(**≤5 gal**) 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 2 more times.]

[(**>5 gal**) Empty remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure 2 more times.]

Place empty, triple rinsed container in trash or offer for recycling if available. If container is partly filled, call your local solid waste agency for disposal instructions. **NEVER PLACE UNUSED PRODUCT DOWN ANY INDOOR OR OUTDOOR DRAIN!**

A Prescription Treatment® brand insecticide from:

Whitmire Micro-Gen Research Laboratories, Inc.

3568 Tree Court Industrial Blvd.

St. Louis MO 63122-6682

www.wmmg.com

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**WHITMIRE
OPTEM®
PT® 600 MICROENCAPSULATED INSECTICIDE**

[ALTERNATE BRAND NAME #1: "Prescription Treatment brand CY-KICK CS"

DESCRIPTOR: "Controlled Release Cyfluthrin"] (added via Notification 10/19/99)

[ALTERNATE BRAND NAME #2: "Optashield CS Controlled Release Premise Insecticide"] (added via Notification 11/15/96)

[ALTERNATE BRAND NAME #3: "Prescription Treatment brand Optashield CS Controlled Release Premise Insecticide"] (added via Notification 11/6/96)

[ALTERNATE BRAND NAME #4: "Prescription Treatment brand Optem Cyfluthrin Capsule Suspension Formula 1"] (added via Notification 11/8/96)

[ALTERNATE BRAND NAME #5: "Optem Cyfluthrin Capsule Suspension Formula 1"] (added via Notification 9/27/96)

[ALTERNATE BRAND NAME #6: "Prescription Treatment Brand Optashield CS"] (added via Notification 9/16/96)

KILLS:

Ants, Aphids, Armyworms, Asian Lady Bugs, Bagworms, Bed Bugs, Bees, Beetles, Billbugs (adults), Boxelder Bugs, Cadelles, Carpenter Ants, Carpenter Bees, Carpet Beetles, Caterpillars, Centipedes, Chiggers, Chinch Bugs, Chocolate Moths, Cigarette Beetles, Clover Mites, Cluster Flies, Cockroaches, Crickets, Cutworms, Darkling Beetles, Dermestids, Drugstore Beetles, Earwigs, Elm Leaf Beetles, Fire Ants, Firebrats, Fleas, Flies, Flour Beetles, Fruitworms, Fungus Gnats, Fungus Gnat Larvae, Grain Weevils, Grasshoppers, Hide Beetles, Hornets, House Flies, Indian Meal Moths, Japanese Beetles (adults), Lace Bugs, Larder Beetles, Leafminers, Leafrollers, Lesser Grain Borers, Lesser Mealworms, Loopers, Mealy Bugs, Mediterranean Flour Moths, Merchant Grain Beetles, Mealworms, Millipedes, Mosquitoes, Pillbugs, Plant Bugs, Psocids, Psylla, Rice Weevils, Sawtoothed Grain Beetles, Scale Insects, Scorpions, Silverfish, Sod Webworms, Sowbugs, Spiders, Springtails, Stable Flies, Tent Caterpillars, Termites, Thrips, Ticks, Yellowjackets, Warehouse Moths, 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, Grain Mills, Granaries, Hog Barns, Homes, Horse Barns, Hospitals, Hotels, Meat Packing Plants, 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: 94.0%

TOTAL: 100.0%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

FIRST AID

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 doctor for treatment advice.

IF IN EYES: Hold eye 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 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 a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also call 1-800-225-3320 for emergency medical treatment information.

See page 2 for Precautionary Statements, Directions for Use and Storage and Disposal.

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



WHITMIRE MICRO-GEN
RESEARCH LABORATORIES INC.
800-777-8570 www.wmmg.com

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.

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.

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. Refer to section entitled "Foam Application Use Directions".

- Do not apply this product through any type of irrigation system.
- 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 spray where electrical short circuits might result, such as wall outlets, conduits, etc.
- Do not apply in aircraft cabins.
- 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.

MIXING INSTRUCTIONS

Thoroughly clean spray equipment before using Optem. Shake concentrate well before diluting. When diluting, first add approximately 1/2 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 reagituate 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.

VOID / CRACK & CREVICE APPLICATION

To treat insects harbored in voids and in cracks and crevices, apply with equipment designed for void applications. Follow the manufacturer's recommendations for proper equipment set up and operating pressures. Place the tip of the applicator at or into the crack or crevice to be treated. Apply product in short bursts while keeping tip in position. Allow the air stream to push insecticide deep into voids. Application should be made in such a manner to limit dripping and run-off on structural surfaces and plants.

INDOOR TREATMENTS

Dilute Optem to 0.05% or 0.10% with water using the spray dilution chart.

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

When using in food/feed areas of food/feed handling establishments, restaurants or other areas where food/feed is commercially prepared or processed, refer to the section entitled "Food/Feed Areas of Food Handling Establishments" for use directions. 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 & 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 & 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.

BED BUGS: Apply to cracks and crevices where evidence of bed bugs occurs. This includes bed frames, box springs, inside empty dressers and clothes closets, carpet edges, high and low wall moldings and wallpaper edges. Do not use this product on mattresses, pillows, bed linens or clothes. Remove all clothes and other articles from dressers or clothes closets before application. Allow all treated areas to dry thoroughly before use. Not recommended for use as sole protection against bed bugs. If evidence of bed bugs is found in/on mattresses, use a product approved for this use.

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. 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.

STORED PRODUCT PESTS (EXPOSED ADULT AND IMMATURE STAGES): Before storing products, treat warehouses, production facilities, storage areas, rail cars, truck beds and other areas where products are stored with Optem. Apply as a spot and/or Crack & Crevice treatment to cracks, crevices and surfaces where pests have been seen or may have harborage. Optem may be used to treat grain storage facilities and other listed areas for stored product pest control. Cleaning areas prior to use of this product will increase levels of control. Any foodstuffs infested with pests should be removed and destroyed.

FOAM APPLICATION USE DIRECTIONS: Optem can be converted to a foam and the foam used to treat structural voids to control insect and arthropod pests in walls, under slabs or in other void areas. Apply as a dry foam (approximately 25:1). Fill void with foam so that all surfaces are contacted. Mix end-use dilution of Optem with manufacturer's recommended volume of foaming agent. Use the recommended rate suspension converted to a foam to achieve the desired foam expansion ratios. Verify before treatment that the foaming agent is compatible with Optem.

FOOD/FEED AREAS OF FOOD/FEED HANDLING ESTABLISHMENTS



Optem applications are permitted in food/feed areas of food/feed handling establishments as a General Surface Application, Spot or Crack & Crevice Treatment. Food/feed handling establishments are defined as places other than private residences in which exposed food/feed is held, processed, prepared or served. Food/feed areas are areas for receiving, storing, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups) of food. Serving areas where food is exposed and the facility is in operation are also considered food areas.

GENERAL SURFACE APPLICATION: Do not apply as a general surface application in the food/feed handling areas of the facility when the facility is in operation or foods are exposed. Do not apply directly to food products. Cover or remove all food processing and/or handling equipment during application. After application in food processing plants, bakeries, cafeterias and similar facilities, wash all equipment, benches, shelving and other surfaces which food will contact. Clean food handling or processing equipment and thoroughly rinse with clean, fresh water.

SPOT AND CRACK & CREVICE APPLICATION: Spot or Crack & Crevice applications may be made while the facility is in operation; however, food should be covered or removed from area being treated. Do not apply directly to food or food handling surfaces. May be used in federally inspected meat and poultry plants.

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INDOOR AND OUTDOOR TREATMENTS

Select one of the following dilutions, 0.05% or 0.10%, for insects listed below unless otherwise noted.

HIBERNATING STAGES OF ASIAN LADY BUGS, BOXELDER BUGS, ELM LEAF 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 & 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, but not more than twice per week. Treatments must be at least 3 days apart.

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 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 1/2 gal 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, Bostrichidae, 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 - 10" apart to ensure thorough coverage. Inject 5 - 10 sec per hole. Do not contact electrical wiring, plumbing, etc. Use the 0.05% or 0.10% 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, Asian Lady Bugs, Boxelder Bugs, Carpenter Ants, Carpenter Bees, Carpet Beetles, Centipedes, Clover Mites, Cluster Flies, Cockroaches, Crickets, Dermestids, Earwigs, Elm Leaf Beetles, Fleas, Flies, Grasshoppers, Millipedes, Mosquitoes, Psocids, Scorpions, Silverfish, Sowbugs, Spiders and Ticks

Not for use in outdoor residential misting systems.

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 0.10% 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 0.10% rate.

PERIMETER TREATMENT: To help prevent infestations of buildings, treat a band of soil 6 - 10 ft wide around and adjacent to the building. Also treat the building foundation to a height of 2 - 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. Optem may be applied in compressed air, backpack or power spray equipment. An application rate of 0.5 - 1.0 fl oz/1,000 ft² is desirable. Apply in sufficient water to adequately cover the area being treated. Application should be made in such a manner to limit dripping and run-off on structural surfaces and plants. Alternate directions are to use 4 - 8 fl oz/50 gal of water.

SUGGESTED MIXING CHART FOR LARGER TANK SIZES

<u>Tank Size (Gallons)</u>	<u>Suggested Amount of Optem per Tank (fl oz)</u>
15	1.5 - 2.5
25	2.0 - 4.0
50	4.0 - 8.0
100	8.0 - 16.0

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. Treat no more than twice per week and at least 3 days apart.

MOSQUITO CONTROL OUTDOORS: Not for use in wide area local, state or federal mosquito control programs. To control adult mosquitoes, use handheld, back-pack or truck mounted sprayers only. Not for use with truck mounted cold aerosol ULV sprayers, handheld cold aerosol ULV sprayers or thermal fogging devices. Do not apply by aircraft. Do not apply through any kind of irrigation and/or lawn sprinkler systems. Use up to 150 gallons of diluted spray per acre. Treat shrubbery, vegetation and other areas where mosquitoes may rest. Shrubby and vegetation around stagnant pools, marshy areas, ponds and shorelines may be treated if applied as a wet spray. Direct application of this product to any body of water is prohibited.

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.

YELLOWJACKET CONTROL OUTDOORS

BAIT PREPARATION AND DISPENSER DISTRIBUTION: To 100g of bait matrix, add 2.0g of Optem and mix thoroughly. This amount of bait is sufficient for one dispenser. Do not mix more than the recommended amount of Optem to the desired bait or yellowjacket avoidance may occur.

Mix only enough bait for immediate use in the desired number of dispensers. Add bait to each dispenser until it reaches about midway between the container bottom and the access holes. Hang the dispenser, preferably in a sunny location, from a tree limb or other suitable support around the periphery of the area to be protected and at heights inaccessible to children and pets. Since the bait is meat based, wildlife may be attracted to it. Placement of the bait and how the dispenser is attached should be such to make it difficult for it to be removed or consumed by wildlife. Attaching the bait dispenser to the surface in two places so it cannot be beat around or easily removed is recommended if wildlife is a concern. For best results, use 3 - 4 dispensers/acre or place them about 100 ft apart.

REAPPLICATION AND BAIT LONGEVITY: Replenish dispensers with fresh bait as long as yellowjackets are present. Unused bait will probably be unattractive to yellowjackets after a few days, especially if temperatures are above 90°F. If possible, stir bait once each day before yellowjacket activity begins in order to bring fresh bait to the surface. If pest yellowjackets reappear in late summer, retreat the area. Properly dispose of any unused or stale bait. Do not reuse dispensers for any other purpose.

BAIT ATTRACTIVENESS: Attractiveness of baits to yellowjackets is highly variable and is dependent on such factors as stage of reproductive cycle, type of bait, quality of bait, etc. Before using Optem, it is recommended that bait preference be determined by placing several candidate baits in allocation where yellowjacket activity is occurring. By observing the visitation frequency for a short time, preference will become apparent.

BAIT DISPENSER: In a 4 - 6 oz non-food container with a removable top, drill 3 - 6 holes 5/8" - 11/16" in diameter around the top of the container and 2 small holes (for attaching wire) in the top.

DISPENSER MARKING: Mark dispenser with at least the following information:

CAUTION

Contains bait mixed with Whitmire Optem PT 600 Microencapsulated Insecticide [ABN], (Cyfluthrin)
EPA Reg. No. 499-304



BAIT SOURCES AND SUGGESTIONS: Optem is recommended for use with any of the attractants from the categories listed below. In order to maximize efficiency, particles of the selected bait should be reduced to 1/8" diameter or smaller. If any bait is dry after preparation, add sufficient water to increase the total moisture content.

CANNED PET FOODS: Cat food containing fish is generally the most attractive bait, although meat and poultry products are usually suitable.

FRESH MEAT, FISH, AND POULTRY: Hamburger or salmon is generally the most attractive bait. The selected product should be cooked until the red color barely disappears. Some products, like red salmon, will retain a red color even after cooking. All traces of free grease should be removed.

CANNED MEAT, FISH, POULTRY AND PROCESSED MEATS (HAM, COLD CUTS, ETC.): These products are often very attractive to yellowjackets and need not be cooked.

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 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 plantscaped 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.

ORNAMENTALS: Treat upper and lower foliage surfaces of plants uniformly. Use 4 - 6 fl oz/100 gal of water.

LAWNS (RESIDENTIAL SITES ONLY): Use a coarse, low-pressure spray using suitable application equipment. Use 0.5 - 1.0 fl oz/1,000 ft².

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 Mums, 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 Exacum

Trees & shrubs (including): Azalea, Barberry, Cotoneaster, Euonymus, Holly, Ivy, Juniper, Oak, Pine, Rhododendron, Roses, Spiraea, Spruce, Virburnum, 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 1,000ft² 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 - 10 ft 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 fl oz of Optem per 1,000 ft² is desirable. Apply in sufficient water to adequately cover the area being treated. Application should be made in such a manner to limit dripping and run-off on structural surfaces and plants.

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

[(<5 gal) 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 2 more times.]

[(>5 gal) Empty remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure 2 more times.]

Place empty, triple rinsed container in trash or offer for recycling if available. If container is partly filled, call your local solid waste agency for disposal instructions. NEVER PLACE UNUSED PRODUCT DOWN ANY INDOOR OR OUTDOOR DRAIN!

A Prescription Treatment® brand insecticide from:

Whitmire Micro-Gen Research Laboratories, Inc.

3568 Tree Court Industrial Blvd.

St. Louis MO 63122-6682

www.wmmg.com

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April 24, 2008

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**RE: Finished Labeling per Agency letter dated February 26, 2008 and
Notification to revise the Container Disposal Statements per PR Notice 2007-4
Whitmire Optem PT 600 Microencapsulated Insecticide
EPA Reg. No. 499-304**

Dear Mr. LaRocca:

Enclosed are two (2) copies of finished labeling per your comments dated February 26, 2008. The revisions are highlighted on one (1) copy for easy reference and review. This finished labeling also includes revised container disposal statements, via Notification, per PR Notice 2007-4 and your comments dated February 26, 2008.

This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146 and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146 and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Thank you for your assistance in this matter. Please don't hesitate to contact me at (636) 861-4223 or, via electronic mail at dana.thomas@wmmg.com, should you have any questions or require additional information concerning this action.

Sincerely,

Dana M Thomas
Dana M. Thomas
Manager, Product Registrations

Encl.