

Reg # 499-304

1M-13

119

4/14/94

Whitmire
Optem™
PT* 600
Microencapsulated Insecticide

RECOMMENDED FOR USE BY COMMERCIAL APPLICATORS

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

FOR USE IN AND AROUND: Apartments, Campgrounds, Food Storage Areas, Homes, Hospitals, Hotels, Inedible Product Areas of Meat Packing Plants, Non-Food/Feed Areas of Food Processing Plants, Motels, Nursing Homes, Resorts, Restaurants and other Food Handling Establishments, Schools, Supermarkets, Transportation Equipment (Buses, Boats, Ships, Trains, Trucks, Planes), Utilities, Warehouses, and other Commercial and Industrial Buildings.

ACTIVE INGREDIENT:

Cyfluthrin [Cyano (4-fluoro-3-phenoxyhenyl) methyl-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate]. 6.0%

INERT INGREDIENTS: 94.0%

EPA Reg. No. 499-304

EPA Est. No. 499-MO-1

Not for Use in USDA Meat and Poultry Plants

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger or blunt object. Do not induce vomiting or give anything by mouth to an unconscious person.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

IF IN EYES: Wash thoroughly with water for at least 15 minutes. Call a physician if symptoms occur.

See side panel for additional precautionary statements.

Net Contents:

ACCEPTED
JUN 21 1994
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 499-304.

BEST AVAILABLE COPY

Optem™
PT® 600
Microencapsulated 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 any surface which will not be damaged or stained by water. Heavy applications may leave a visible deposit. On some surfaces this deposit can be removed with a damp cloth or sponge.

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

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

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 insure even mixture. Shake or reagitate 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	0.025% Spray	0.05% Spray	0.1% Spray
1 gallon	0.5 fl. oz.	1.0 fl. oz.	2.0 fl. oz.
3 gallons	1.5 fl. oz.	3.0 fl. oz.	6.0 fl. oz.
5 gallons	2.5 fl. oz.	5.0 fl. oz.	10.0 fl. oz.
10 gallons	5.0 fl. oz.	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.

BEST AVAILABLE COPY

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 should be covered during treatment or thoroughly washed before use. Exposed food/feed should be covered or removed. Non-food/feed areas are areas such as garbage rooms, rest rooms, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling).

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.

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.

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.

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. 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. Repeat application as necessary. Treat wall area around entry points on exterior where insects congregate.

BEST AVAILABLE COPY

INDOOR AND OUTDOOR TREATMENTS

Select one of the following dilutions, 0.025%, 0.05% or 0.1%, for insects listed below unless otherwise noted.

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

WOOD DESTROYING INSECTS - Localized treatment of wood-infesting insects: Beetles and Borers (such as the following families: Anobiidae, Bostrichidae, Buprestidae, Cerambycidae, Lyctidae, Oedemeridae, Sesiidae), Carpenter Ants, Carpenter Bees, Termites and Wood Wasps: 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 insure thorough coverage. Inject 5 to 10 seconds per hole. Do not contact electrical wiring, plumbing, etc. when drilling and never use Whitmire metal wood injectors where electrical shock could occur. Use a Whitmire standard plastic void injector if there is danger of electrical contact. For carpenter bees, seal bee entrances after application. Use the 0.05% or 0.1% rate.

BEEES, WASPS AND YELLOW JACKETS: 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 yellow jacket or wasp nest, liberally treat the nest, inside the nest for yellow jackets and the surrounding area. For treatment of nests inside wall voids inject into the nest sufficient quantity to treat the complete nest. More than one point of application maybe required. Most applications should require no more than half a gallon of diluted material. Pay particular attention to what the water may contact such as electrical wiring. Do not use where there is a shock hazard.

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 MAYBE REQUIRED.

BEST AVAILABLE COPY

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. For severe infestations or treatments under slabs, in basements and buildings with insufficient crawlspace, contact a licensed pest control operator or termite service.

For active and hibernating stages of Boxelder Bugs, Elmleaf Beetles, Cluster Flies and Clover Mites: Inject cracks and crevices and/or voids where these insects may be harboring or hibernating. Infested areas include, but are not limited to, cracks and crevices, behind siding, wall voids, around window and door frames. Repeat as necessary. Use the 0.05% or 0.1% rate.

OUTDOOR TREATMENTS

Kills: Ants, Boxelder Bugs, Carpenter Ants, Carpet Beetles, Centipedes, Clover Mites, Cluster Flies, Cockroaches, Crickets, Dermestids, Earwigs, Elmleaf Beetles, Fleas, Flies, Millipedes, Psocids, 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. 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. Use the 0.05% or 0.1% rate.

As a 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, 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 fluid ounces of Optem™ per 1000 sq. ft. is desirable. Apply in sufficient water to adequately cover the area being treated, but will not allow dripping or run-off to occur.

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 weekly during periods of heavy fly activity.

BEST AVAILABLE COPY

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 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), Bugs (Boxelder, Lace and Plant) Caterpillars, Centipedes, Chiggers, Chinch bugs, Clover Mites, Crickets, Cutworms, Earwigs, Firebrats, Flies, Fruitworm, Fungus Gnats, Fungus Gnat Larvae, Grasshoppers, Japanese Beetle (Adults), Leafminers, Leafrollers, Loopers, Mealy bugs, Millipedes, Mosquitoes, Pillbugs, Psylla, Scale Insects, Scorpions, Sod webworms, Sowbugs, Spiders, Tent Caterpillars, Thrips, Ticks, Wasps and Yellow Jackets.

For trees, shrubs, foliage plants and flowers in outdoor landscaped areas such as parks, recreational areas, athletic fields, institutional groups, etc., and interior plantscaped areas (such as in hotels, shopping malls, office buildings, etc.) where these plants are grown. Optem™ also controls designated pests in home lawns. Optem™ 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.

Ornamental: Treat upper and lower foliage surfaces of plants uniformly. Use 4 to 6 fl. oz. of Optem™ per 100 gallon 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, BUT NOT LIMITED TO:

Bedding and garden plants (such as): impatiens, marigolds, petunias, geraniums, and garden mums.

Cut flowers (such as): roses, chrysanthemums, carnations, snapdragons, and orchids.

Flowering hanging baskets (such as): fuchsia, lantana, New Guinea impatiens, ivy, and geraniums.

Foliage (such as): Boston fern, dracaena, ficus, schefflera, and philodendron.

Potted flowering plants (such as): poinsettia, chrysanthemums, florist's azaleas, lilies, African violets, geraniums, hibiscus, kalanchoes, and begonias.

FOR USE OUTDOORS, BUT NOT LIMITED TO:

Flowering Plants (such as): Alyssum, Begonia, Chrysanthemum, Geranium, Impatiens, Ivy, Marigold, Mock-Orange, Periwinkle, Petunia, Salvia, Snapdragon, Zinnia.

Woody Ornamentals (such as): Azalea, Camellia, Euonymus, Honeysuckle, Juniper, Lilac, Rhododendron, Rose

Trees (such as): Blue Spruce, Dogwood, Maple, Oak

Do not treat vegetable gardens.

For yellow jackets and wasps use treatment directions from elsewhere on label.

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.

For residual control of house flies and stable flies 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 0.5 to 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 weekly during periods of heavy fly activity.

BEST AVAILABLE COPY

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 0.5 - 1.0 fluid ounces of Optem™ per 1000 sq. ft. is desirable. Apply in sufficient water to adequately cover the area being treated, but will not allow dripping or run-off to occur.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
(AND DOMESTIC ANIMALS)

CAUTION

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

) Do not apply to humans, their clothing or bedding. Do not allow children or pets to contact treated surfaces until spray has dried. Do not contaminate food or use on household pets. Cover fish tanks prior to application.

Do not apply this product in patient rooms while occupied or in any rooms while occupied by the elderly or infirm. Do not apply to classrooms when in use.

Avoid contamination of food, feedstuffs, or water supply. Do not contaminate food preparation surfaces, kitchen utensils, dishes, or feed storage containers. All food/feed contact surfaces and cooking utensils should be covered during treatment or thoroughly cleaned before using.

Do not spray where electrical short circuits might result, such as wall outlets, conduits, etc.

) ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish and aquatic invertebrates. Remove from premises or tightly cover fishtanks 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 industrial 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.

BEST AVAILABLE COPY

9 2 9

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 reuse empty container. Triple rinse, wrap container and put in trash.

LIMITATION OF LIABILITY

Use only as directed. Buyer assumes all risks in using or handling this product in any way. WHITMIRE EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY. IN NO CASE SHALL WHITMIRE BE LIABLE FOR CONSEQUENTIAL, SPECIAL, INCIDENTAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. DAMAGES FROM THE USE OF THIS PRODUCT ARE EXPRESSLY LIMITED TO REPLACEMENT OF THE PRODUCT OR REFUND OF THE PURCHASE PRICE.

A Prescription Treatment® brand insecticide from:

Whitmire Research Laboratories, Inc.
3568 Tree Court Ind. Blvd.
St. Louis, Missouri 63122

Copyright, 1994

BEST AVAILABLE COPY