

229084 / 300  
4 / 17

MAR 22 1989

Mr. Michael G. Sarll  
Whitmire Research Laboratories, Inc.  
3568 Tree Court Industrial Boulevard  
St. Louis, MO 63122

Dear Mr. Sarll:

Subject: Amendment - Addition of "Perimeter Treatment" Directions  
Whitmire PT 256A Knox-Out  
EPA Registration No. 499-228  
Your Application Dated June 24, 1988

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable provided that you make the labeling changes indicated below prior to release for shipment of the product bearing the amended labeling.

1. Combine the two "For use in" headings on the front panel and eliminate duplicate sites.
2. Add "Vacate patient rooms and school rooms before treatment. Allow spray deposits to dry thoroughly before the room is reoccupied" to the directions for use.
3. Change the Note to Physician to:

**Note to Physician**

Solvent may present aspiration hazard. Gastric lavage may be indicated if product was taken internally. Diazinon is an organophosphate insecticide. If symptoms of cholinesterase inhibition are present, atropine sulfate by injection is antidotal. 2-PAM is also antidotal and may be administered, but only in conjunction with atropine.

4. In the Environmental Hazards, change "disposal of wastes" to "disposing of equipment washwaters."

50743:1:Richards:LLR-09:KENCO:03/22/89:05/02/89:aw:vo:ek:rw

**CONCURRENCES**

SYMBOL								
SURNAME								
DATE								

5. Use in food handling establishments can imply use in U.S. Department of Agriculture (USDA) Meat and Poultry Plants. Therefore, either add the statement "Not for use in USDA Meat and Poultry Plants," or submit an application to USDA requesting use in these areas. If granted, you can then indicate on the label that the product can be used in these areas.
6. Add the following to the fleas and ticks paragraph:

Do not use broadcast application in nurseries or any area where infants may sleep. Humans and pets should avoid contact with treated surfaces (rugs, upholstered furniture, etc.) for 4 hours after treatment.

Submit five (5) copies of your final printed labeling before you release the product for shipment.

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

George T. LaRocca  
Product Manager (15)  
Insecticide-Rodenticide Branch  
Registration Division (H7504C)

Enclosure

FRONT PANEL:

1/28/88

PT® 265A KNOX OUT®

MICRO ENCAPSULATED

DIAZINON

KILLS: Ants, Aphids, Boxelder Bugs, Carpenter Ants, Caterpillars, Centipedes, Cockroaches, Crickets, Firebrats, Fungus Gnat Larvae, Lacebugs, Leaf Miners, Mealybugs, Mexican Bean Beetle Larvae, Scale Insects, Silverfish, Southern Army Worm, Sowbugs, Spider Mites, Thrips and Whiteflies.

For use in hospitals, supermarkets, motels, hotels, homes, transportation equipment (buses, boats, ships, trains, trucks, planes), utilities, meat packing and food processing plants, food storage areas, and restaurants and other food handling establishments, schools, warehouses, and other commercial buildings.

For Use In: Homes, Apartments, Stores, Hospitals and Nursing Homes (non-patient room areas), Manufacturing Plants, Warehouses, Schools, Restaurants, Hotels, Motels, Food Processing Plants and on vessels, aircraft, boats, ships, rail cars, buses, trucks and trailers, in Greenhouses, on Plantscapes and for Ornamental Insect Control.

Apply Directly to Foliage, Flowers or Ornamentals: African Violets Agapanthus, Ageratum, Aluminum Plant, Alyssum, Arrowhead, Azalea, Begonia, Birds Nest Fern, Blue Spruce, Boston Fern, Bottlebrush, Cactus, Calendula, Camelia, Carnations, Celosia Jewel Box, Chrysanthemum, Cockscomb, Coleus, Cotoneaster, Crape Myrtle, Croton, Daisy, Dianthus, Dogwood, Dracaena, Dusty Miller, Dwarf Lilac, Escallonia, Euonymus, Flat Topped Sedum, Floss Flower, Friendship Plant, Gardenia, Gazania, Geranium, Golddust, Honeysuckle, Hydrangea, Ilex, Impatiens, Ivy, Jade Plant (Crassula), Japanese Arelia, Juniper, Leucothoe, Lilac, Malus, Maranta, Marigold, Mock Orange, Mugho Pine, Nandina, Oleander, Orchid, Osmanthus, Pachysandra, Periwinkle, Petunia, Pfitzer Juniper, Photinia, Pineapple Guava, Pittosporum, Podocarpus, Primrose, Privet, Pyracantha, Raphiolepis, Rhododendron, Rose, Salvia, Sansevieria, Scarlet Sage, Snake Plant, Snapdragon, Soft Maple, Spider Plant, Star Jasmine, Strawflower, Swedish Ivy, Tahitian Bridal Veil, Velvet Plant (Gynura), Verbena, Wandering Jew, Wax Plant, Zinnia

Do not use on Neanthe Bella Palm, Dracaena, Hoya, Maidenhair Fern, Heath, Poinsettia and Prayer Plant.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

2 1988

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended by the pesticide  
regulation under E.A. 102. No.

1/28/88

FRONT PAGE (cont.)

ACTIVE INGREDIENT:

Diazinon, 0,0-Diethyl 0-(2-isopropyl-6-methyl-4-pyrimidinyl)  
phosphorothioate . . . . . 1.0Z

INERT INGREDIENTS: . . . . . 99.0Z

Knox-Out is Reg. TM Pennwalt Corp.

EPA Reg. No. 499-228

EPA Est. 499-MO-1

KEEP OUT OF REACH OF CHILDREN - to be 12 pt. type

CAUTION - to be 18 pt. type

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center immediately. Drink one or two glasses of water and induce vomiting by touching the back of the throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person.

IF ON SKIN: Remove contaminated clothing and wash affected areas with soap and water.

IF ON EYES: Flush eyes with plenty of water. Get medical attention immediately.

NOT TO PHYSICIAN: If symptoms of cholinesterase inhibition are present, atropine sulfate is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

NET WEIGHT: 16 oz.

SIDE PANEL:

PT<sup>®</sup> 265A Knox Out<sup>®</sup> MICROENCAPSULATED DIAZINON

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

STORAGE & DISPOSAL: Do not contaminate water, food, or feed by storage or disposal.  
STORAGE: Store in a cool dry area away from heat or open flame and inaccessible to children.

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

CONTAINER DISPOSAL: Replace cap and discard container in trash, sanitary landfill or by other approved state and local procedures. Do not incinerate or puncture.

SHAKE WELL BEFORE USE

HOW TO USE WHITMIRE CRACK & CREVICE INJECTION EQUIPMENT:

Do not use as an indoor space spray. See additional directions for Greenhouse and Outdoor Use. Whitmire's PT<sup>®</sup> 265A Knox Out<sup>®</sup> is for use indoor, only with injection tube and for injecting into cracks and crevices where insects may be hiding, living, and breeding. Place injector tip 1/2" into cracks, crevices, holes and other small openings where insects may be a problem. Release approx. 1 second spray per spot. In serious infestation, if possible, place spots approx. 12" apart. In light infestation or preventive treatment place spots approx. 3 ft. apart. In long running cracks, move the injector tip along the crack while spraying. Move at the rate of 1 linear foot per second in heavy infestations and 3 ft. per second in light infestations. See the additional directions below for effective control of specified insects.

INDOOR PESTS

CRAWLING INSECTS: Cockroaches (waterbugs), crickets Spray into hiding places such as cracks and crevices, moist areas, openings around pipes and sinks, under refrigerators, behind baseboards, coffee makers, meter boxes, and manholes. Spray directly on insects in these locations where possible. Repeat as necessary.

SILVERFISH: Spray cracks and crevices in baseboards, door frames, bookcases, and storage areas. Spray directly on insects in these locations where possible. Repeat as necessary.

SIDE PANEL (CONT.):

**ANTS:** Spray into trails, nests, and points of entry around doors, windows, structural cracks and crevices. Spray directly on insects in these locations where possible. Repeat as necessary.

**CARPET BEETLES:** Make spray application on and under edges of floor coverings, under carpets and furniture and in closets or other locations where these insects are found. Entire carpets may be treated. When treating entire carpets see directions under Fleas and Ticks. Repeat application as necessary.

**FLEAS AND TICKS:** Apply PT<sup>®</sup> 265A to pet beds and resting quarters, adjacent cracks and crevices, baseboards, carpets and floor coverings between and under cushions of upholstered furniture and other areas where the pests may be present. Entire carpets may be treated. Applications to most surfaces should be as light as possible, approximately one 16 oz. can per 450 square feet. It may be necessary to use a higher volume of spray, approximately one 16 oz. can per 300 square feet, on long, dense shag carpets. Old bedding of pets should be replaced with clean, fresh bedding after treatment. Animals should not be sprayed with this product.

Localized treatment of wood-destroying insects: **CARPENTER ANTS.** Locate source of infestation. Inject 5-10 seconds spray into insect tunnels and cavities.

**CARPENTER ANTS:** Locate source of infestation. Inject 5-10 seconds spray into insect tunnels and cavities.

**APPLICATIONS IN FOOD HANDLING ESTABLISHMENTS:** Places other than private residences in which food is held, processed, prepared, or served.

**FOOD AREAS - APPLICATION LIMITED TO CRACK AND CREVICE TREATMENT ONLY:** Include areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups). Servicing areas (when food is exposed and facility is in operation) also would be considered a food area.

Apply in small amounts directly into cracks and crevices using injection tube in points between different elements of construction, between equipment and floors, openings leading to voids and hollow spaces in walls equipment legs and bases where insects hide. Care should be taken to avoid depositing the product onto exposed surfaces or introducing the material into the air. Avoid contamination of food or food processing surfaces.

**APPLICATIONS OF THIS PRODUCT IN THE FOOD AREAS OF FOOD-HANDLING ESTABLISHMENTS, OTHER THAN AS A CRACK AND CREVICE TREATMENT ARE NOT PERMITTED.**

**OUTDOOR PESTS**

**FLIES:** For outdoor use only as an aid in reducing annoyance from these insects. Spray outside surfaces of screens, doors, window frames, or wherever these insects may enter the room. Also treat surfaces around light fixtures on porches, in garages, and other places where these insects alight or congregate. Repeat as necessary.

SIDE PANEL (cont.)

ANTS, CRICKETS: For treatment of localized infestations of these insects in outdoor areas where there are weeds or brushy non-crop areas, spray infested areas thoroughly for ants, thoroughly wet hills and runways. Repeat applications as infestations warrant and as reinfestations occur.

Perimeter Treatment - Apply spray to exterior surfaces of building, porches, screens, window frames, eaves, patios, garages and other areas where pests congregate or enter premises.

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. A rate of 14 seconds per 100 square feet is desirable.

ORNAMENTAL PLANTS AND GREENHOUSE INDOOR PLANTSCAPING: Indoors. Greenhouse preapplication directions: For best results, apply at end of work day. Shut off all outside exhaust fans. Close windows, doors and ventilators.

APPLICATION DIRECTIONS

Dosage: Apply 5 - 10 seconds per 100 square feet.

Light Infested Areas

Spray direction path 5 seconds per 100 square feet.

Heavy Infested Areas

Spray direction serpentine path 10 seconds per 100 square feet.

Dosage based on 2 foot high plants. Lower or higher dosage should be given based on height of foliage. Move can in a fast sweeping motion to provide maximum coverage maintaining a distance of 18 to 24 inches away from foliage.

Spot treatment - for individual plants and localized infestations: Spot treat at a rate of 10 seconds per 100 square feet. Apply as insects begin to appear. Repeat application as necessary.

ORNAMENTAL PLANTS (OUTDOORS): Protect outdoor plants when spraying, keep can 18 - 24 inches from plant. For best results, spray in evening or on a cloudy day when air is still. Use slow sweeping motion. Avoid wetting foliage with spray. Spray rows at the rate of one foot per second. For heavy growth, spray row on both sides. Repeat when necessary. Spray with caution on growing plants and new growth.

PRECAUTIONARY STATEMENT  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

May cause eye irritation. Harmful if swallowed or inhaled. May be absorbed through the skin. Avoid breathing of spray mist and provide adequate ventilation of area being treated. Avoid contact with skin, eyes, or clothing.

Wash thoroughly after using and before smoking or eating.  
Avoid contamination of food, utensils, and food preparation areas.  
Keep children and pets off treated areas until spray has dried.

BEST AVAILABLE COPY

**ENVIRONMENTAL HAZARDS:** This product is toxic to fish, birds, and other wildlife. Do not apply directly to water. Apply this product only as specified on the label. Do not contaminate water by disposal of wastes. This pesticide is toxic to bees exposed to direct application. Applications should be timed to coincide with periods of minimum bee activity, usually between late evening and early morning.

**PHYSICAL OR CHEMICAL HAZARDS:** Contents under pressure. Do not puncture or incinerate container. Do not use or store near heat or open flame. Exposure to temperatures above 130°F may cause bursting. Do not store below 32°F.

Do not spray on plastic, painted or varnished surfaces or directly into any electronic equipment such as radios, televisions, computers, etc.

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

**NOTICE TO APPLICATOR:** When spraying large greenhouse ranges or when subject to extended inhalation exposure wear a pesticide respirator jointly approved by The Mining Enforcement and Health Administration and by the National Institute for Occupational Safety and Health under the provision of 30 CFR Part 11.

This product has been tested on a wide variety of plants and in our opinion has demonstrated excellent plant safety. However, not all varieties or strains of the plants listed have been tested. Unintentional consequences such as crop injury or ineffectiveness may result because of certain environmental or growing conditions, manner of use or application, and insect resistance. Therefore, before treating a large number of plants, spray a few plants and observe for plant damage and for performance prior to full scale application. All risks shall be assumed by the user.

#### **LIMITATION OF LIABILITY**

Manufacturer warrants that this product conforms to the chemical description on the label. Buyer assumes all risks of use in handling which are at variance in any way with the directions on the label. MANUFACTURER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL MANUFACTURER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. DAMAGES CAUSED BY THIS PRODUCT ARE LIMITED TO REPLACEMENT OF THE PRODUCT OR RETURN OF THE PURCHASE PRICE.

Whitmire Research Labs, Inc.  
St. Louis, MO 63122