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10182-387

9/30/97

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SEP 30 1997

S.K. Theodorakis
Zeneca Ag Products
P.O. Box 15458
Wilmington, DE 19850-5458

Subject: Demand® Pestab™ Insecticide
EPA Registration No. 10182-387
Amendment dated June 18, 1997
Replacement labeling dated September 4, 1997

Dear Mr. Theodorakis:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable provided that you:

1. Make the following changes to your label:

- a. In the ENVIRONMENTAL HAZARDS statement, change "Do not apply directly to any body of water" to "Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark."
- b. Under Food Serving Areas change "should be covered" to "must be covered." Also, reinstate "Do not apply when facility is in operation" to this section. This is required when treating dining rooms.
- c. Following the last sentence under "Application Within Food Handling Establishments" add "Food contact surfaces and equipment should be cleaned with an effective cleaning compound and rinsed with potable water before using." This is stated under CFR 185.1310 but was overlooked in earlier reviews.
- d. Delete the entire section entitled "Applications in Food Storage Facilities or Transportation Vehicles." The product is not approved for use on food contact surfaces. The regulation states that spray should not be applied to surfaces that may come in contact with food.

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2. Submit two copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

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

Sincerely yours,

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

Enclosure

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DEMAND® PESTAB™ Insecticide
For Commercial and Agricultural Use Only

ACTIVE INGREDIENT:

Lambda-cyhalothrin¹

[1α(S*),3α(Z)]-(±)-cyano(3-phenoxyphenyl)methyl 3-(2-chloro-3,3,3-trifluoro-1-propenyl)-2,2-dimethylcyclopropanecarboxylate 10.0%

INERT INGREDIENTS: 90.0%

Total 100.0%

¹Synthetic pyrethroid

EPA Reg. No. 10182-387

Net Contents:

KEEP OUT OF REACH OF CHILDREN

WARNING

See Side Panel for Statement of Practical Treatment and Precautionary Statements

Made in U.S.A.
ZENECA Professional Products
ZENECA Inc.
Wilmington, DE 19850-5458

ACCEPTED
with COMMENTS
in EPA Letter Dated

SEP 30 1997

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
10182-387

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STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: If victim is alert and not convulsing, rinse mouth out and give 200-300 ml (1 cup) of water to dilute material. **IMMEDIATELY** contact your local Poison Control Center. Vomiting should only be induced under the direction of a physician or Poison Control Center. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus, rinse mouth and administer more water. **IMMEDIATELY** transport victim to an emergency facility.

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

IF INHALED: Remove victim to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. Get medical attention.

IF IN EYES: Hold eyelids open and flush with steady, gentle stream of water for 15 minutes. Get medical attention if irritation persists.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL 1-800-F-A-S-T-M-E-D
(327-8633).

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC
1-800-424-9300.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

MAY BE FATAL IF SWALLOWED. HARMFUL IF INHALED OR ABSORBED THROUGH SKIN. CAUSES EYE IRRITATION. AVOID CONTACT WITH SKIN, EYES OR CLOTHING AND BREATHING SPRAY MIST. PROLONGED OR FREQUENTLY REPEATED SKIN CONTACT MAY CAUSE ALLERGIC REACTIONS IN SOME INDIVIDUALS. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish. Do not contaminate water when cleaning equipment or disposing of equipment washwaters. Do not apply directly to any body of water. Apply this product only as specified on this label. Care should be used when making applications to avoid household pets, particularly fish and reptile pets.

PHYSICAL AND CHEMICAL HAZARDS

Do not use this product in or on electrical equipment due to the possibility of shock hazard.

or to areas where surface water is present or to intertidal areas below the mean high water mark.

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**CONDITIONS OF SALE
AND LIMITATION OF WARRANTY AND LIABILITY**

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather, presence of other materials or other influencing factors in the use of the product, which are beyond the control of ZENECA or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold ZENECA and Seller harmless for any claims relating to such factors.

ZENECA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or ZENECA, and Buyer and User assume the risk of any such use. ZENECA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall ZENECA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ZENECA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ZENECA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

ZENECA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of ZENECA.

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DIRECTIONS FOR USE

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

For use as a general surface (nonfood/nonfeed areas), crack and crevice or spot treatment residual pest control in, on and around buildings and structures and their immediate surroundings and on modes of transport. Permitted areas of use include but are not limited to industrial buildings, houses, apartment buildings, laboratories, buses, greenhouses, stores, warehouses, vessels, railcars, trucks, trailers, aircraft (cargo areas only), schools, nursing homes, hospitals, restaurants, hotels, livestock/poultry housing, pet kennels, food granaries, food grain mills and food manufacturing, processing and servicing establishments.

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior landscapes, lawns or grounds.

DEMAND PESTAB can be reapplied at 21-day intervals if necessary.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Do not use empty container.

STORAGE: Mix only as needed. Do not store diluted material. Do not store near food or feed. Keep tablets in original package and store in cool, dry area.

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: After tablet is removed, dispose of packaging in trash or by incineration.

Do not allow tablets to become wet before adding to the spray tank. Minimize direct handling of tablets to avoid moisture. Tear or cut tablet package and drop tablet directly into tank to be used for application.

DEMAND® PESTAB™ insecticide is intended for dilution with water for application. Do not use strainers finer than 50 mesh size. Fill applicator tank with 1/2 the desired volume of water and add tablet(s) of DEMAND PESTAB insecticide per the table below. Add the remaining water needed and wait 1-2 minutes for tablet(s) to dissolve. Close and agitate, stir or shake before use in order to ensure proper suspension of the tablet. Shake or reagituate application equipment before use if application is interrupted. Make up only amount of treatment volume as required.

Do not store dilution in application equipment overnight.

Foam Applications

DEMAND PESTAB may be converted to a foam and the foam used to treat structural voids to control or prevent pests including ants, wasps, bees, or other arthropods harboring in walls, under slabs, or in other void areas.

Use recommended rate emulsion converted to a foam with expansion characteristics of 2 to 20 times. Test to be sure that foaming product is compatible with DEMAND PESTAB Insecticide.

Tank Mixing

DEMAND PESTAB insecticide may be tank mixed with other currently registered pesticides unless expressly prohibited by the product label. A small volume mixing test with the other products is recommended to ensure compatibility.

Observe all restrictions and precautions which appear on the labels of these products.

PESTS	CONCENTRATION OF ACTIVE INGREDIENT	DILUTION RATE
Ants Bees Boxelder Bugs Carpenter Bees Carpet Beetles Cigarette Beetles Clover Mites Centipedes Cockroaches** Confused Flour Beetles Firebrats Fleas*** Flies Lesser Grain Borers Millipedes Mosquitoes Red Flour Beetles Rice Weevil Saw-toothed Grain Beetles Silverfish Sowbug Wasps	0.015 - 0.03%	0.015%: 1 tablet*/gal. water 0.03%: 2 tablets*/gal. water
Boxelder Bugs Cockroaches** Crickets Litter Beetles**** (adults/immature stages such as Darkling, Hide and Carrion) Mosquitoes Pillbugs Scorpions Sowbug Spiders Spider Mites (Two spotted, Spruce) Ticks	0.06%	0.06%: 4 tablets*/gal. water

* 1 DEMAND PESTAB = 5.6 grams (0.2 oz)

** For cockroaches the recommended rate for maintenance treatments is 0.015% and for clean-out treatments is 0.03%. In addition, more frequent applications may be needed on concrete surfaces. For SEVERE infestations, use 0.06% rate.

*** For outdoor use only and use 0.03% rate.

**** For control of LIGHT beetle infestations, use 0.03% rate.

1. **ANTS:** Apply to any trails, around doors and windows and other places where ants may be found. Apply barrier treatments to prevent infestation as directed below, also see **OUTDOOR SURFACES USE.**
2. **COCKROACHES, SPIDERS, CRICKETS, SILVERFISH, AND FIREBRATS:** Apply as a coarse, low-pressure treatment to areas where these pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, cabinets, behind and under refrigerators, sinks, furnaces and stoves, the underside of shelves, drawers and similar areas. Pay particular attention to cracks and crevices; also see **OUTDOOR SURFACES USE.**
3. **BEEES, CARPENTER BEES, FLIES, MOSQUITOES, AND WASPS:** Apply directly to walls, ceilings, window screens and other resting areas as a residual surface treatment. May be used inside residential buildings as well as in and around carports, garages, and storage sheds. Also see **OUTDOOR SURFACES USE.**
4. **PANTRY PESTS** (i.e., Carpet beetle, Confused flour beetle, Cigarette beetle, Lesser grain borer, Red flour beetle, Rice weevil, and Saw-toothed grain beetle): Apply to cupboards, shelving, and storage areas. Remove all utensils, uncovered foodstuffs (or any having original package opened), and shelf paper before making applications. Allow treated surfaces to dry and cover shelves with clean paper before replacing any utensils, foodstuff or other items. Any foodstuff accidentally contaminated with treatment solution should be destroyed.
5. **BOXELDER BUGS, SOWBUGS, PILLBUGS, MILLIPEDES AND CENTIPEDES:** Apply around doors and windows and other places where these pests may be found or where they may enter premises. Treat baseboards, storage areas and other locations. Apply barrier treatments to prevent infestation as described below, also see **OUTDOOR SURFACES USE.**
6. **LITTER BEETLES (DARKLING, HIDE AND CARRION BEETLES) IN ANIMAL HOUSING (SUCH AS POULTRY HOUSES):** To control adult litter beetles, apply DEMAND PESTAB to walls and floors at cleanout, before reintroduction of animals. This will suppress beetles that escaped earlier treatment and will help delay onset of future infestations. Pay attention to areas where beetles frequently occur, such as walls, supports, cages, stalls and around feeders. also see **Livestock/Poultry Housing Structures and Pet Kennels.**

Application Within Food Handling Establishments (places other than private residences in which exposed food is held, processed, prepared or served): Including, but not limited to, areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing foods, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups) and serving areas. Use as a crack and crevice or spot treatment in and around both food and nonfood areas. Apply directly into cracks and crevices using equipment capable of delivering a pin stream of insecticide, in points between different elements of construction, between equipment and floor, openings leading to voids and hollow spaces in walls, equipment and bases.

Not for use in USDA Meat and Poultry Plants:

Authorized by the USDA for use in edible areas of Federally inspected meat, poultry and egg processing facilities as a crack and crevice treatment.

Limit individual spot treatments to an area no larger than 20% of the total surface area. Individual spot treatments should not exceed two square feet. Take extreme care that the

product is not introduced into the air. Avoid contamination of food and food processing surfaces.

Application Within Food Serving Areas (facilities where foods are served, such as dining rooms): Apply as a crack and crevice or spot treatment to selective surfaces, such as baseboards, under elements of construction and into cracks and crevices. Avoid treating surfaces likely to be contacted by food. ~~(Do not apply when facility is in operation or foods are exposed.)~~ Food should be covered or removed in area being treated. Do not apply directly to food or allow applications to contaminate food.

Application of this product in the Food Areas and/or Food Serving Areas of Food Handling Establishments other than as a spot and/or crack and crevice treatment is not permitted.

Applications in Food Storage Facilities or Transportation Vehicles: Crack and crevice or spot treatments may be made in storage areas of transportation vehicles, food granaries, food grain mills, warehouses and production facilities only before storing or filling with the food products or food grains. DEMAND PESTAB may be applied by pest control operators or food grain producers in these areas to help control insect infestations of the stored foods as a crack and crevice or spot treatment at the rates recommended in the use rate table. Normal cleaning practices of the storage facilities or transportation vehicles must be followed along with application of DEMAND PESTAB to effectively control stored food pests listed in the rate table.

Livestock/Poultry Housing Structures and Pet Kennels

Apply as a general surface and/or crack and crevice treatment. Control is enhanced when interior and exterior perimeter applications are made in and around the livestock and pet housing structures. Normal cleaning practices of the structure also must be followed along with applications of DEMAND PESTAB to effectively control the crawling and flying insect pests listed in the table.

For poultry houses, apply to floor area (birds grown on litter) or to walls, posts, and cage framing (birds grown in cages). Application should also be made into cracks and crevices around insulation. Reapply after each growout or sanitization procedure. Indoor control can be enhanced by making perimeter treatments around the outside of building foundations to prevent immigrating adult beetles. Apply in a uniform band at least one foot up and one foot out from foundation. Maintaining a year-round treatment program will prevent background populations from reaching problem levels.

DO NOT make applications of DEMAND PESTAB when in areas where animals are present in the facility. Allow treated surfaces to completely dry before restocking the facility.

DO NOT make applications to any animal feedstuffs, water or watering equipment.

DO NOT contaminate any animal food, feed or water in and around livestock, poultry or pet housing when making applications.

OUTDOOR SURFACES USE

For control of ants, bees, centipedes, cockroaches, crickets, fleas, flies, millipedes, mosquitoes, scorpions, sowbugs, pillbugs, spiders, ticks, wasps and other perimeter insect pests. Apply with either hand or power application equipment sprayer as a residual spray to outside surfaces of buildings including, but not limited to, exterior siding, foundations, porches, window frames, eaves, patios, garages and other similar areas.

Also may be applied to lawn areas around residential/non-residential buildings, refuse dumps, and similar areas where these insect pests are active.

Barrier Treatments: To help prevent infestation of building, apply to a band of soil and vegetation 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. Apply as a coarse spray to thoroughly and uniformly wet the foundation and/or band area, using 1 gallon of spray mix per 400-1000 square feet.

NOTE: Do not use water-base sprays of DEMAND PESTAB in conduits, motor housings, junction boxes, switch boxes or other electrical equipment because of possible shock hazard. For best results, thoroughly wash out sprayer and screen with water and detergent before using DEMAND PESTAB insecticide. DEMAND PESTAB has not stained or caused damage to painted or varnished surfaces, plastics, fabrics or other surfaces where water applied alone causes no damage.

- Let treated surfaces dry before allowing humans and pets to contact surfaces.
- Do not apply this product in any room being used as living, eating, sleeping or recovery area by patients, the elderly, or infirm when they are in the room.
- Do not apply to classrooms when in use.
- Do not apply this product to edible growing crops or stored raw agricultural commodities used for food or feed.
- Do not use this product with oil.
- Do not allow applications to contact water inhabited by fish, such as in aquariums and ornamental fish ponds that are located in/around structures being treated.