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OFFICE OF PESTICIDE PROGRAMS
INSECTICIDE BRANCH

JUN 30 1999

Sharon M. Johnston
AgrEvo Environmental Health
95 Chestnut Ridge Road
Montvale, New Jersey 07645

Dear Ms. Johnston:

Subject: Label Amendments
DeltaGard T&O Insecticide
EPA Reg. No. 432-834
Deltagard GC Insecticide
EPA Reg. No. 432-835
Submissions dated March 8, 1999

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

1. Revise the first bullet for EPA Reg. No. 432-834 to read as follows: "For Commercial Use Only. To control of insect pests outdoors on ornamentals and lawns in landscaped areas around residential, institutional, public commercial and industrial buildings, parks, recreational areas and athletic fields."
2. Remove the terms "Lepidopterous larvae" and "etc." so the statement in the "Pests" column in the Turfgrass sites table reads: "cutworms, armyworms, and sod webworms". Additional Lepidopteran larval pests should be named. This product was not formerly labeled for control of all Lepidopteran pests on turf.
3. The revised application rate is acceptable.

- 4. Addition of black-legged tick is acceptable since the deer tick is the same species. For clarity, please change to read: "black-legged ticks or deer ticks" since multiple species exist - *Ixodes pacificus* and *Ixodes scapularis*.
- 5. The addition of the genus, *Hyperodes*, is acceptable to describe the annual bluegrass weevil.

The Agency no longer requires submission of product performance data for non-public health pests. Please be advised that the addition of the requested pests and changes in application rates are granted provided efficacy data exists to support these claims. These data should be available upon request.

Submit two copies of the final printed labeling before you release the product for shipment. A stamped copy is enclosed for your records. Thank you for your cooperation in this matter. If you have any questions, please contact Kevin Sweeney at (703)- 305-5063.

Sincerely,



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

DELTAGARD™ T&O Insecticide

- FOR INSECT CONTROL ON COMMERCIAL AND RESIDENTIAL LAWNS AND LANDSCAPE ORNAMENTAL PLANTS
- NOT FOR USE ON TURF BEING GROWN FOR SALE OR OTHER COMMERCIAL USE AS SOD, OR FOR COMMERCIAL SEED PRODUCTION OR FOR RESEARCH PURPOSES

ACTIVE INGREDIENT:

Deltamethrin 4.75%

OTHER INGREDIENTS: 95.25%

100.00%

Contains 0.42 lb. deltamethrin per gallon.
DeltaGard is a trademark of AgrEvo Environmental Health, Inc.

EPA Reg. No. 432-834

EPA Est. No.

PRECAUCION AL USARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.
(TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

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

See Side Panel for Additional Precautions

AgrEvo Environmental Health
95 Chestnut Ridge Road
Montvale, NJ 07645

ACCEPTED
with COMMENTS
in EPA Letter Dated

JUN 30 1999

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

432-834

IN CASE OF MEDICAL EMERGENCIES OR HEALTH AND SAFETY INQUIRIES, OR IN CASE OF FIRE, LEAKING, OR DAMAGED CONTAINERS, INFORMATION MAY BE OBTAINED BY CALLING 1-800-XXX-XXXX.

FOR PRODUCT INFORMATION, CALL TOLL-FREE: 1-800-XXX-XXXX

PRECAUTIONARY STATEMENTS Hazards To Humans & Domestic Animals Caution

Harmful if inhaled. Avoid breathing vapor or spray mist. Contact with product may result in transient tingling and reddening of the skin. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Wear protective clothing when using or handling this product to help avoid exposure to eyes and skin. Eye protection, gloves, a long-sleeved shirt and long-legged pants or coveralls are recommended.

Do not allow adults, children or pets on treated surfaces until spray has dried.

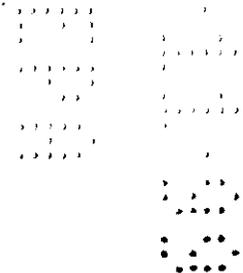
Environmental Hazards

This pesticide is extremely toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in areas near the application site. Use with care when applying in areas adjacent to any body of water. Do not apply on saturated soil. Do not contaminate ornamental fish ponds. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

This pesticide is highly toxic to bees exposed to direct treatment. Do not apply or allow it to drift to crops or weeds on which bees are actively foraging.

Notify state and/or Federal authorities and AgrEvo Environmental Health immediately if you observe any adverse environmental effects due to the use of this product.

NOTICE: It is a Federal offense to use any pesticide in a manner that results in the death of a member of an endangered species.



DIRECTIONS FOR USE

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

GENERAL INFORMATION: DeltaGard T&O Insecticide is a suspension concentrate formulation of deltamethrin containing the equivalent of 0.42 lb. active ingredient per gallon. DeltaGard T&O Insecticide is a pyrethroid product which controls a broad spectrum of insects on turfgrasses and ornamental plants grown for non-food or non-feed uses. These areas include outdoor areas where turfgrasses and ornamentals are grown, such as athletic fields, recreational areas, residential landscapes, parks and public and commercial sites. This product will provide effective knockdown and residual control of the pests listed on this label. Uniform coverage is essential. Begin applications when pests are evident and repeat as needed.

GENERAL HANDLING AND MIXING INSTRUCTIONS:

Shake container well before using. Add approximately one half of the water to the spray tank. Then add the proper amount of DeltaGard T&O Insecticide in water in accordance with the rates in the appropriate Application Rate table. Close the tank and agitate vigorously for 5 to 10 seconds, then add the remaining water slowly to avoid excess foam. Thoroughly agitate spray to ensure proper suspension. If spraying is interrupted when using a backpack or hand-held spray equipment, re-invert sprayer before use. If spray screens are used, they should be 50 mesh or larger. **DILUTE DeltaGard T&O Insecticide ONLY WITH WATER.** Prepare spray solution when ready to make applications.

Application Instructions and Recommendations

TURFGRASS SITES: Apply DeltaGard T&O Insecticide as a broadcast application using a conventional hydraulic boom-type sprayer or other suitable equipment for turfgrass pests according to the rates listed in the APPLICATION RATES FOR TURFGRASS SITES table. Apply using a minimum of 2 gallons of water per 1000 sq. ft. Higher volumes (4 to 10 gallons of water per 1000 sq. ft.) may be needed for adequate coverage of dense turfgrass canopies and/or turfgrasses maintained under high mowing heights.

Target insects must be exposed to the insecticide to be controlled. For optimum control of surface-feeding insects, delay irrigation or mowing for 24 hours after application. For subsurface-feeding insects, irrigate with 0.25 to 0.5 inch of water immediately after application.

TANK MIX RECOMMENDATIONS: DeltaGard T&O Insecticide has been found to be compatible with many commonly used pest control and fertilizer products. When tank-mixing DeltaGard T&O Insecticide, observe all restrictions and precautions and limitations which appear on the label of each product. For any tank-mixture which has not been previously tested, mix the correct proportion of products and water in a quart jar to ensure proper physical compatibility of the mixture.

Tank-mixtures of DeltaGard T&O Insecticide with silicone surfactants may improve the control of some insects.

APPLICATION RATES FOR TURFGRASS SITES

Turfgrass Sites	Pests	Rates	Remarks
Areas such as residential and recreational lawns	Lepidopterous larvae (cutworms, armyworms, sod webworms, etc.)	0.2 to 0.4 fl. oz. per 1000 sq. ft. OR 8.75 to 17.5 fl. oz. per acre OR 0.03 to 0.06 lb ai/A	Apply when pests become evident. Apply as a broadcast spray in a minimum of 2 gallons of water per 1000 sq. ft. Delay irrigation or mowing for 24 hours after application for optimum control of surface-feeders, such as cutworms and webworms.
	Ants, centipedes, chiggers, cockroaches, crickets, fleas (adult), grasshoppers, ground beetles, Japanese beetles (adult), leafhoppers, mealybugs, pillbugs, scorpions, sowbugs, springtails, spiders, ticks (including black-legged tick or deer tick)	0.4 to 0.6 fl. oz. per 1000 sq. ft. OR 17.5 to 26 fl. oz. per acre OR 0.06 to 0.08 lb. ai/A	

Annual bluegrass weevil (Hyperodes) (adult), billbugs (adult), black turfgrass ataenius (adult), chinch bugs, mites*, mole crickets	0.6 to 0.9 fl. oz. per 1000 sq. ft.	For subsurface feeders, such as mole crickets, irrigate with 0.25 to 0.5 inch of water immediately after application. The addition of a silicone surfactant may enhance mole cricket control.
	25 to 39 fl. oz. per acre	
Red Imported Fire Ants**	OR	
	0.08 to 0.13 lb. ai/A	
	1.5 fl. oz/gallon	

* Suppression Only

** For control of fire ants, mix 1.5 fl. oz. DeltaGard T&O Insecticide per one gallon of water and apply as a drench treatment to each fire ant mound. Gently apply 1 to 2 gallons over the surface of each mound and surrounding area to approximately 2 feet in diameter. Whenever possible, avoid excessive disturbance of the mounds since high pressure sprays may cause ant migration, reducing product effectiveness. For best results, apply in cool weather during spring and fall (65 - 80°F) or early morning or late evening hours. If possible, apply after a recent rainfall. Make additional treatments as needed and treat new mounds as they appear.

RESTRICTIONS FOR TURFGRASS

APPLICATIONS: Do not apply this product by aerial application or by any type of chemigation system. Do not apply when wind speed is greater than 15 mph. Apply product using spray nozzles which produce coarse droplet size, such as flood jet nozzles. Do not apply when turfgrass areas are waterlogged or the soil is saturated with water (i.e., will not accept irrigation).

LANDSCAPE ORNAMENTALS: DeltaGard T&O Insecticide provides control of a wide range of insects on landscape ornamentals. Mix DeltaGard T&O Insecticide with the required amount of water according to the APPLICATION RATES FOR LANDSCAPE ORNAMENTALS table. Thoroughly apply the finished spray to upper and lower leaf surfaces to ensure adequate coverage, but prior to dripping. Be sure to penetrate dense foliage to wet leaves, trunk and branches.

Plant safety testing has been conducted on many species of ornamental plants under a wide range of environmental and cultural conditions and no injury has been observed. If local use information is not available, it is advisable to pre-spray a few plants.

APPLICATION RATES FOR ORNAMENTALS

Ornamentals	Pests	Rate	Remarks
Landscape ornamentals including trees, shrubs, evergreens and foliage plants	Adelgids, ants*, aphids, azalea caterpillar , azalea lace bugs, bagworms, boxelder bugs, California oakworms , cankerworms, cardamom thrips, casebearers , cockroaches, crickets*, elm leaf beetles, elm spanworms, European pine sawflies, fall webworms, firebrats , flea beetles, flies, fungus gnats, grasshoppers, greenstriped mapleworm, Gypsy moth (larvae), imported willow leaf beetles, Japanese beetles (adult)**, June beetles (adult), lace bugs, leaf-feeding caterpillars, leathoppers, leaf miners , leaf rollers, leaf skeletonizers, mealybugs, midges*, mimosa webworms, mites***, orangestriped oakworms, pillbugs, pine shoot beetles, pine tip moths, pinyon spindlegall midges, psyllids , plant bugs, redhumped caterpillar, red imported fire ants, sawfly larvae, silverfish , sowbugs, spiders*, springtails, spanworms, spittlebugs , scale insects (crawlers), tent	4 to 8 fl. oz. per 100 gallons of water	Apply when pests become evident. Thorough coverage is required for best results. Apply with sufficient water to ensure coverage of upper and lower leaf surfaces.

	caterpillars, ticks, webworms, yellownecked caterpillar		
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- * The use of DeltaGard T&O 5SC Insecticide for the control of ants, crickets, midges and spiders is limited to ornamental areas and areas adjacent to buildings. Apply as a general spray, concentrating on damp areas beneath shrubbery, around foundations and in areas of tall weeds and grass.
- ** Will provide antifeedent properties on treated ornamentals against Japanese beetles.
- *** Suppression Only

NOTES:

1. DO NOT apply DeltaGard T&O Insecticide through any type of irrigation system.
2. DO NOT apply this product to edible crops.
3. In New York State, product may not be applied to turf within 100 feet of a coastal marsh or stream that drains directly into a coastal marsh. For control of turf insects in New York State, a second application may be made after two weeks if target insect activity persists.
4. Not for use in commercial greenhouses, nurseries, sod farms, or grass grown for seed. Not for use on golf course turf.

STORAGE & DISPOSAL

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

Storage: Avoid extremes in temperature. Mix as needed. Do not store diluted material. Store in original container in a secured dry storage area. Prevent cross-contamination with other pesticides and fertilizers. If the container is leaking or material is spilled, on floor or paved surfaces, absorb with sawdust or other commercially available absorbing material, sweep up and remove to chemical waste area for disposal.

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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

CONDITIONS: The directions for use of this product are believed to be adequate and should be followed carefully. However, because of extreme weather conditions and soil conditions, manner of use and other factors beyond AgrEvo Environmental Health's control, it is impossible for AgrEvo Environmental Health to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED OF MERCHANTABILITY OR OF FITNESS FOR PARTICULAR PURPOSE OR OTHERWISE, WHICH EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of AgrEvo Environmental Health is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. AgrEvo Environmental Health disclaims any liability whatsoever for incidental or consequential damages, including, but not limited to, liabilities arising out of breach of contract, express or implied warranty (including warranties of merchantability and fitness for a particular purpose), tort, negligence, strict liability or otherwise.

LIMITATION OF LIABILITY: THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT AGREVED ENVIRONMENTAL HEALTH'S ELECTION, THE REPLACEMENT OF PRODUCT.

NET CONTENTS:

NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.

IMPORTANT: READ BEFORE USE

By using this product, user or buyer accepts the following conditions, warranty, disclaimer of warranties and limitations of liability.

