



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

JUN 7 1994

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

A. Eimanis  
MAKHTESHIM-AGAN OF NORTH AMERICA INC.  
551 Fifth Avenue - Suite 1100  
New York, NY 10176

Subject: Label Amendment Submission of 09/16/93 in Response to PR Notice 93-7  
EPA Reg. No. 66222-5  
BONIDE LAWN AND ORNAMENTAL INSECTICIDE W/DURSBAN

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

**WHAT YOU NEED TO DO NEXT:**

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable  
Printed with Soy-Cerata Ink on paper that  
contains at least 50% recycled fiber

Page 2

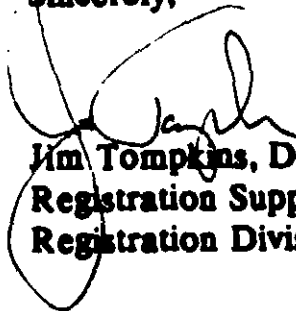
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division

A. Eimanis  
MAKHTESHIM-AGAN OF NORTH AMERICA INC  
551 FIFTH AVENUE - STE 1100  
NEW YORK NY 10176

Subject: Label Amendment Submission of 09/16/93  
to Comply with WPS Labeling Requirements  
EPA Reg Nr. 66222-5  
BONIDE LAWN AND ORNAMENTAL INSECTICIDE W/DURSBAN

The following specific comments pertain to your  
WPS labeling submission concerning the product  
cited above:

Correct the typographical errors circled on your proposed  
label.

**BEST AVAILABLE COPY**

**BONIDE LAWN AND ORNAMENTAL INSECTICIDE  
WITH DURSBAN® 2E**

Controls Japanese Beetle, European Chafer Larvae, Chinch Bugs, Sod Webworms (Lawn Moths), Ants, Armyworms, Bluegrass Billbug, Brown Dog Ticks, Chiggers, Clover Mite, Crickets, Cutworms, Earwigs, Fleas, Grasshoppers, Turfgrass (Hyoerodes) Weevil on Lawns and Certain Insects on Ornamentals.

EPA Est. No.

EPA Reg. No. 66222-5

**Net Contents:**

**ACTIVE INGREDIENT:**

Chlorpyrifos (0,0-diethyl 0-(3,5,6-trichloro-2-pyridyl) phosphorothioate ..... 24.5%

INERT INGREDIENTS: ..... 75.5%

Contains 2 pounds of chlorpyrifos per gallon.

\*Dursban® - Trademark of the Dow Chemical Co., U.S. Patent No. 3,244,586

Contains Xylene

ACCEPTED  
with COMMENTS  
In EPA Letter Dated  
**JAN 27 1994**  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
66222-5

To be applied only by or under the supervision of pest control operators, public health organizations, and other trained personnel responsible for insect control programs.

Do not use, pour, spill, or store near heat or open flame.

**KEEP OUT OF REACH OF CHILDREN**

**WARNING AVISO**

**Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)**

**STATEMENT OF PRACTICAL TREATMENT**

**Organophosphate**

**IF SWALLOWED:** Do not induce vomiting. Call a physician immediately.

**IF ON SKIN:** In case of contact, remove contaminated clothing and immediately wash skin with soap and water.

**IF IN EYES:** Flush with plenty of water for 15 minutes. Call a physician.

Avoid spraying food crops. Keep away from food, feedstuffs and domestic water supplies. (See side panel warnings)

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
WARNING**

May be fatal if swallowed. Combustible liquid. May be absorbed through skin. May be injurious to the eyes and skin. Do not get in eyes or on skin. ~~Wash thoroughly after handling. Wash contaminated clothing before re-use.~~ Flush contaminated eyes with plenty of water and get medical attention. Avoid breathing spray mist or vapors.

Note to physician: Active ingredient is a cholinesterase inhibitor. Treat systematically. Atropine is antidotal.

WARNING (Lawn and Ornamental Plant Pests): ~~Keep children and pets off treated areas until spray has dried.~~ Keep out of lawn and garden fishpools and other bodies of water. Fish may be killed if their waters are contaminated with this product. Do not apply where runoff is likely to occur. Do not apply when weather conditions favors drift from areas treated.

**PERSONAL PROTECTIVE EQUIPMENT**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category G on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- 1) Coveralls over short-sleeved shirt and short pants.
- 2) Chemical-resistant gloves, such as barrier laminate or Viton (2-14 mil).
- 3) Chemical-resistant footwear plus socks.
- 4) Protective eyewear.
- 5) Chemical-resistant headgear for overhead exposure.
- 6) Chemical-resistant apron when cleaning equipment, mixing, or loading.
- 7) Dust/mist filtering respirator (MSHA/NIOSH approval number pref. IC-21C).

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS**

Users should:

- 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- 2) Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 3) Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**BEST AVAILABLE COPY**

**ENVIRONMENTAL HAZARDS**

When handlers use (or use) this product in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR [170.340-16](4-8)), the label's WPS requirements may be reduced or modified as specified in the WPS.

**ENVIRONMENTAL HAZARDS**

This product is toxic to fish, birds, and other wildlife. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply when weather conditions favor drift from areas treated. Apply this product only as specified on this label. This product is highly toxic to bees exposed to direct treatment or residues on plants. Protective information may be obtained from your Cooperative Agricultural Extension Service.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not use, pour, spill or store near heat or open flame. Handle concentrate in a ventilated area.

**DISPOSAL**

Do not reuse empty container. Wrap and put in trash collection.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- 1) Coveralls over short-sleeved shirt and short pants;
- 2) Chemical-resistant gloves, such as barrier laminate or Viton (≥ 14 mils);
- 3) Chemical-resistant footwear plus socks;
- 4) Protective eyewear;
- 5) Chemical-resistant headgear for overhead exposure.

**BEST AVAILABLE COPY**

[REDACTED]

[REDACTED]

Use Dursban 2E for control of certain pests of lawns and ornamental plants. Consult the following directions for dosage and application details to control the pests listed.

**Turf Grass Areas:** Use Dursban 2E insecticide to control ants, armyworms, brown dog ticks, chiggers, chinch bugs, clover mites, crickets, cutworms, earwigs, fleas, grasshoppers, and sod webworms (lawn moths). Mix Dursban 2E with water according to directions given in the following table and apply as a coarse low pressure spray using suitable application equipment. For best results, the lawn should be moist at the time of treatment and care should be taken to obtain complete and uniform coverage of pest infested areas. Spray when pests first appear re-treat as needed.

#### USE RATE AND DILUTION TABLE FOR USE ON TURF

<u>Area to be treated</u>	<u>Amount of Dursban 2E</u>	<u>Dilute with Water to Give</u>
500 sq. ft.	3/4 fl. oz.	15 gallons
1,000 sq. ft.	1 1/2 fl. oz.	30 gallons
5,000 sq. ft.	2 1/2 fl. oz.	150 gallons
10,000 sq. ft.	1 pint	325 gallons
One Acre	2 quarts	1,300 gallons

**To Control Turfgrass (Hyperodes) Weevils:** Use twice the amount of Dursban 2E shown in the above turf table; i.e., 1 gallon diluted in 1,300 gallons of water per acre. Spray suspected problem areas in mid-April and again in mid-May. Consult your local Agricultural Extension Service specialist for proper times to treat in your area.

**Note:** To help prevent infestation of buildings by ants, crickets, earwigs, and sowbugs (billbugs) treat a band of 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. Use the same dosage and dilution recommended to control these pests on turf as shown in the above table. Apply as a coarse spray to thoroughly and uniformly wet the band area.

**To control larvae of Japanese beetle and European chafer:** Use 2 to 4 times the amounts of Dursban 2E shown in the above turf table; i.e., 3 to 6 fluid ounces per 1,000 sq. ft. or 1 to 2 gal. per acre. Apply in enough water to obtain uniform coverage of the area treated followed immediately by thorough watering when grubs are young and actively feeding near the soil surface, usually during late July or August. Consult your local agricultural extension service specialist for proper time to treat in your area.

**Bluegrass billbug:** Use 3 to 6 fl. oz. Dursban 2E per 1,000 sq. ft. Spray early in the season when adults first appear. Re-treat when needed.

**ORNAMENTALS:** To control aphids, ash borer, bagworms, cutworms, dogwood borer, eastern tent caterpillar, fall webworm, grasshoppers, leafhoppers, lilac borer, mealybugs, mimosa webworm, mites, orangestriped oakworm, redhumped caterpillar, scale crawlers (oak lecanium, pine needle, tea, white peach) spittlebugs, thrips (exposed), whiteflies, and yellownecked caterpillar on flowers, shrubs, vines, shade and flowering trees and evergreens found to be infested with these pests. Dilute Durban 2E with water according to directions given in the following table and apply using suitable hand or power spray equipment in a manner to provide complete and uniform coverage of infested plants. Avoid overspraying to the point of excessive runoff. Treat when pests appear and repeat at 7 to 10 day intervals if needed. Note: Do not use on azaleas, camellias, poinsettias, rose bushes or variegated ivy because of possible injury to these plants.

<u>Pests Controlled</u>	<u>Amount of Durban 2E in Water to Make</u>		
	<u>3 gallons</u>	<u>10 gallons</u>	<u>300 gallons</u>
Aphids	0.5 fl.oz.	1.6 fl.oz.	1 pint*
Bagworms			
Eastern tent caterpillar			
Fall webworm			
Grasshoppers			
Mites			
Orangestriped oakworm			
Spittlebugs			
Whiteflies			
Yellownecked caterpillar			
Cutworms	1.0 fl.oz.	3.2 fl.oz.	1 quart**
Leafhoppers			
Mealybugs			
Mimosa webworm			
Redhumped caterpillar			
Thrips (exposed)			
Ash borer	2 fl.oz.	6.4 fl.oz.	2 quarts***
Lilac borer			
Dogwood borer			
Scale crawlers			
Oak lecanium			
Pine needle			
Tea			
White peach			

\* Equivalent to 4 ounces of chlorpyrifos per 100 gallons.

\*\* Equivalent to 8 ounces of chlorpyrifos per 100 gallons.

\*\*\* Equivalent to 12 ounces of chlorpyrifos per 100 gallons.

Note: Mosquitoes coming to rest on areas treated for control of turf and ornamental plant pests will be killed for varying periods of time after treatment.

**Fire Ants:** Mix at the rate of 1 fl. oz. per 2 gal. of water and apply 1 gal. of solution per mound. Thoroughly wet the mound and surrounding area to a 4 ft. diameter. For best results, apply in cool weather (65-80 degrees F), or in early morning or late evening hours. Treat new mounds as they appear. Application should be as a gentle rain from a sprinkler can or using low pressure spray since pressurized sprays may disturb the ants causing migration and reducing product effectiveness.



Recommendations for use of this product are based upon tests believed to be reliable. The buyer must assume all responsibility for use of this product when not used in strict accordance with directions or established safe practice, or when used under abnormal conditions not reasonably foreseeable to the seller.

Bonide Lawn and Ornamental Insecticide w/ DURSBAN 2E  
WPS version 15SEP93