

JUN 23 1986

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Duphar, B.V.
c/o John Kennedy Consultants, Inc.
9101 Cherry Lane
Suite 113
Laurel, MD 20708-1133

Attention: John Kennedy

Gentlemen:

Subject: Dimilin 25W Insect Growth Regulator
EPA Registration No. 37100-8
Your Request for Amendment Dated April 21, 1981

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

At the next printing of labels correct the statement under soybeans. The statement should read "Do not cut for hay or allow milk or meat animals to graze treated fields."

Sincerely yours,



Arturo E. Castillo
Acting Product Manager (17)
Insecticide-Rodenticide Branch
Registration Division (TS-767C)

Enclosure

86854-Schroeder:G-5;KENGCO:5/21/86:5/28/86:eg:VO

CONCURRENCES

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| SYMBOL ▶ | | | | | | | | |
| SURNAME ▶ | | | | | | | | |
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RESTRICTED USE PESTICIDE

For retail sale to and use only by Certified Applicators, or persons under their direct supervision, and only for those uses covered by the Certified applicator's certification.

DIMILIN®

25W

INSECT GROWTH REGULATOR

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS

CAUTION

Avoid contact with skin. Avoid contamination of feed and food-stuffs.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to crab, shrimp and other aquatic invertebrates. Do not apply directly to water or wetlands, except under the forest canopy. Drift or runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

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

STORAGE — Store in a dry location.

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 — Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

COMPOSITION

Active Ingredient: (% by weight)

N-[[[4-Chlorophenyl)amino]carbonyl]

-2,6-difluorobenzamide* 25.0%

Inert Ingredients: 75.0%

TOTAL: 100.0%

*Diflubenzuron: U.S. Patent Numbers 3,748,356; 3,933,908; 3,989,842; 4,013,717; 4,110,469; 4,399,152 and other patents pending.

KEEP OUT OF REACH OF CHILDREN CAUTION

See left side panel for additional precautionary statement.

ACCEPTED
BY THE COMMISSION
in the Letter Used:

JUN 23 1986

Under the Federal Insecticide, Fungicide, and Rodenticide Act
Registration No. 37100-8

37100-8

DUPHAR B.V.

Crop Protection Division
C.J. van Houtenlaan 36
1381 CP Weesp, Holland

EPA REG. NO. 37100-8

EPA EST. NO. 37100-HL-1

DIMILIN® is a Registered Trademark of Duphar B.V., Weesp, Holland

Lot No.

NET CONTENTS:

DIRECTIONS FOR USE TREES AND SHRUBS

To be used to protect trees and associated plants not used for food or feed from foliar feeding insect larvae. In campgrounds use only after notification of persons using such facilities. Insecticidal activity of DIMILIN 25W is slower than with some other products. In most instances, several days may be needed before full effect can be seen. DIMILIN 25W applied at label rates does not affect bees.

GYPSY MOTH: DIMILIN 25W is effective against the larval stages of the gypsy moth resulting in foliage protection and reduction of egg mass deposition. Apply 1 to 4 ounces (0.063 to 0.25 pounds) DIMILIN 25W per acre. Application should be made prior to full leaf expansion when larvae are in early development. Do not make more than one application per year.

Aerial Application: Apply the recommended amount in sufficient water volume (0.5 to 2.5 gallons per acre) to achieve uniform coverage of foliage.

Ground Application: For mist blower equipment, apply the recommended amount in sufficient water volume (1.5 to 10.0 gallons per acre) to achieve uniform coverage of foliage.

Quarantine Programs: For use by United States Department of Agriculture, Animal Plant Health and Inspection Service, Plant Protection and Quarantine personnel and State cooperators involved in quarantine programs. For use in eradication of isolated infestations, make two applications of 1 to 2 ounces of DIMILIN 25W per acre 7 to 14 days apart. For use in quarantine programs involving the movement of nursery stock from infested to non-infested areas, make two applications of 1 to 2 ounces of DIMILIN 25W per acre 7 to 14 days apart on nursery stock.

FUREST TENT CATERPILLAR: Apply 2 to 8 ounces DIMILIN 25W per acre in the early larval stages of development and/or before foliage is expanded. Do not make more than one application per year.

Aerial Application: Apply recommended amount in 0.5 to 2 gallons of water per acre. Uniform coverage of foliage is essential.

Ground Application: Apply recommended amount in sufficient water for uniform, full coverage of foliage (10 to 200 gallons per acre).

NANTUCKET PINE TIPMOTH: Apply 4 ounces DIMILIN 25W per acre in the early larval stages of development, preferably at the beginning of the second tipmoth generation at egg hatch. Do not make more than one application per year.

Aerial Application: Apply the recommended amount in 0.5 to 2 gallons of water per acre for uniform coverage.

Ground Application: Apply recommended amount in sufficient water for uniform, full coverage of foliage (10 to 200 gallons per acre).

For use in Christmas tree plantations, nurseries and forested areas.

DOUGLAS-FIR TUSSOCK MOTH: To protect foliage from Tussock moth larvae, apply 4 to 8 ounces of DIMILIN 25W per acre by aerial or ground application equipment. Apply after egg hatch when larvae are in early development (approximately 5 days after hatch). Do not make more than one application per year.

Aerial Application: Apply 4 to 8 ounces (0.25 to 0.5 pounds) of DIMILIN 25W in 0.5 to 2 gallons of water per acre. Uniform coverage of the foliage is essential.

Ground Application: Apply 4 to 8 ounces (0.25 to 0.5 pounds) of DIMILIN 25W per acre in sufficient water for uniform, full coverage of foliage (10 to 200 gallons per acre).

ORNAMENTALS

For control of beet armyworm on field or greenhouse grown chrysanthemums apply 0.5 to 1 pound of DIMILIN 25W per acre in a dilute spray not to exceed 200 gallons of water per acre. Begin applications when larvae appear and repeat at weekly intervals as required. The insect dies during molting following contact and full effect will not be seen for 3 to 5 days following application.

MUSHROOMS

DIMILIN 25W will control larvae of sciarid flies in mushroom growing facilities. DIMILIN 25W in the mushroom growing media will prevent the development of the larval stages of the sciarids. This effectively stops reproduction in the growing medium and prevents damage to the mushrooms. Because of its unique type of activity, do not expect immediate reductions in adult fly populations. DIMILIN 25W does not directly affect adults, but kills the larvae in the growing medium.

Compost treatment: Apply 2.4 to 4 pounds of DIMILIN 25W per 1000 square feet to the compost at spawning time by thorough incorporation such as with a spawning machine. This is equivalent to 30 to 50 ppm active ingredient assuming a compost wet weight of 40 pounds per cubic foot.

Casing treatment: Apply 13.5 ounces of DIMILIN 25W per 1000 square feet at the time of casing by thorough incorporation into the casing or in sufficient water to obtain a thorough drench. This is equivalent to a rate of 30 ppm active ingredient assuming a casing weight of 6700 pounds per 1000 square feet.

SOYBEANS (except California)

DIMILIN 25W will control larvae of velvetbean caterpillar, Mexican bean beetle and green cloverworm. Apply DIMILIN 25W at the rate of 2 to 4 ounces (0.125 to 0.25 pounds) per acre. Make application when larvae are small (less than 0.5 inches) to give greater control and minimum insect damage to leaves. Repeat application if damaging numbers reappear.

DIMILIN 25W may be applied at the lower rate (2 ounces) to prevent velvetbean caterpillar build-up when the vegetative growth of soybeans is completed and as pod formation begins. Consult local Extension Service regarding infestation levels requiring treatment.

Aerial Application: Apply recommended amount of DIMILIN 25W in sufficient water (1 to 3 gallons per acre) to achieve uniform coverage of foliage.

Ground Application: Apply recommended amount of DIMILIN 25W in 9 to 35 gallons of water per acre to give uniform coverage.

Do not make more than two applications per season. Do not apply within 21 days of harvest. Do not cut hay nor allow milk or meat animals to graze treated fields.

DIMILIN 25W inhibits the molting process of larvae, therefore, it does not provide immediate kill. From 3 to 5 days may be required before populations are reduced. Do not rotate crops other than soybeans or cotton until six (6) months following last application.

COTTON

BOLL WEEVIL: DIMILIN 25W will control boll weevil through reproduction suppression. Apply 4 to 8 ounces (0.25 to 0.5 pounds) of DIMILIN 25W per acre per treatment in combination with 2 to 4 quarts of emulsifiable vegetable or paraffinic crop oil. Consult your supplier or Uniroyal representative for oil specifications. In California do not apply in oil without water.

Aerial Application: Apply in 2 to 3 gallons total volume per acre.

Ground Application: Apply in 5 to 30 gallons of total volume per acre to give uniform coverage.

MIXING DIRECTIONS IF USED WITH WATER:

1. Fill tank with half of the required amount of water.
2. Begin agitation and add required amount of DIMILIN 25W.
3. Continue agitation while adding remainder of water.
4. Add proper quantity of oil slowly. To avoid formation of an invert emulsion use at least 2 parts water for each part oil.

MIXING DIRECTIONS IF USED WITHOUT WATER:

1. Prepare slurry. In a container outside the spray tank, prepare a slurry in the proportion of 5 pounds DIMILIN 25W to 1 gallon of oil. Mix until smooth.
2. Slowly add slurry to spray tank containing balance of oil, using vigorous agitation.
3. Do not dilute with water.

Aerial or ground applications: Spray should be applied with aerial or ground equipment designed or modified to insure full uniform coverage of the entire plant. Equipment adjusted to provide droplets with a diameter 150 to 220 microns is recommended. Provide agitation prior to, during, and after blending and while applying.

For maximum control of boll weevil reproduction, make first application at pinhead square stage of cotton growth when overwintering boll weevils are entering the fields. Repeat treatments should allow at least 5 to 7 day intervals between applications. Do not make more than 6 applications and do not apply more than 1.5 pounds of DIMILIN 25W per acre during one growing season. Do not apply after bolls begin to open. Do not rotate crops other than cotton or soybeans until six (6) months following last application of DIMILIN 25W.

DIMILIN 25W does not kill the adult boll weevils, however, eggs deposited by treated female weevils will not hatch, thus limiting reproduction. The control of egg hatch and larval development within the square prevents its shedding and will then allow normal boll development. After initial treatment of the female weevil, 7 to 10 days are required before non-hatching eggs are laid.

When used for boll weevil control, DIMILIN 25W allows normal build-up of beneficial insects which may aid in control of bollworm and budworm. Emulsifiable concentrate insecticide formulations used in tank mixes, if the presence of oil, may result in phytotoxicity. Care should be taken where such mixture is used.

COTTON LEAFPERFORATOR: To control cotton leafperforator, apply 2 to 4 ounces (0.125 to 0.25 pounds) of DIMILIN 25W per acre in sufficient water volume to provide uniform coverage of foliage.

Aerial Application: Apply in 1 to 5 gallons of water per acre.

Ground Application: Apply in 5 to 30 gallons of water per acre.

Begin treatment when larvae appear on leaves and when foliar feeding becomes evident, normally at the 3rd to 4th larval stage. Repeat applications at 5 to 7 day intervals and continue as long as feeding is evident. Do not apply after bolls have opened.

RESTRICTIONS ON ROTATIONAL CROPS

Do not plant food or feed crops in DIMILIN 25W treated soils, within 6 months following last application, unless DIMILIN 25W is authorized for use on these crops.

IMPORTANT NOTICE — Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product, contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of such use.