



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg.
Number:

400-511

Date of Issuance:

DEC 17 2002

Term of Issuance: **Conditional**

Name of Pesticide Product:

Dimilin 80WGS

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Crompton Corporation
74 Amity Road
Bethany, CT 06524-3402

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(B) provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Add the phrase "EPA Registration Number 400-511".
3. Conduct an edge-of-field monitoring study, using an Agency approved protocol, for peppers to monitor the actual concentrations of CPU in surface water. The Agency will review the protocol proposed by you, and the study must be initiated no later than 12 months from the date of this letter.
4. Submit sediment toxicity studies to address the uncertainty regarding risks to sediment dwelling invertebrates, prior to adding new uses to this registration.

(continued on page 2)

Signature of Approving Official:

Rita Kumar

Date:

DEC 17 2002

Notice of Registration (Continued); EPA Registration Number 400-511.

5. Revise the confidential statement of formula (CSF) to change the percentage of the source product, Diflubenzum Technical, to 97.9% in column 10.

6. Submit production information (gallons produced) for this product for the fiscal year in which the use on peppers is conditionally registered, in accordance with FIFRA section 29. **The fiscal year begins October 1, and ends September 30. The production information will be submitted to the Agency no later than November 15, following the end of the preceding fiscal year.**

This information should be submitted to:

Registration Support Branch
Registration Division (7505C)
U.S. Environmental Protection Agency
401 M Street SW
Washington D.C. 20460

7. Submit a revised CSF and two (2) 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(a). Your release for shipment of the product constitutes acceptance of these conditions.

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

Sincerely,

Rita Kumar

Rita Kumar
Senior Regulatory Specialist
Insecticide Rodenticide Branch
Registration Division (7505C)

Enclosure

Restricted Use Pesticide. Due to toxicity to aquatic invertebrate animals. 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® 80WGS



**Insect Growth Regulator
Water Dispersible Granule**

**For use on stone fruit (excluding cherries),
tree nuts and peppers**

Do not mix with Boron Products

Net Contents:
1.95
pounds
Water Soluble Package
10x3.125
pouches per bag

COMPOSITION

Active Ingredient: (% by weight)
diflubenzuron
N-[[[4-Chlorophenyl]amino]carbon,1]-2,6-difluorobenzamide 80%
Inert Ingredients: 20%
TOTAL 100%

U.S. Patent Number 6,057,370 and 6,376,430B1 and other patents pending.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

| FIRST AID | |
|---|--|
| IF IN EYES | <ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice. |
| IF ON SKIN OR ON CLOTHING | <ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice. |
| EMERGENCY ASSISTANCE: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. | |
| CROMPTON EMERGENCY PHONE | 203-723-3670 |
| SAFETY DATA AND INFORMATION | 203-573-3303 |
| TRANSPORTATION EMERGENCY (CHEMTREC) | 800-424-9300 |

Precautionary Statements and Directions for Use are in the attached booklet. If booklet is missing, contact Crompton or an authorized dealer.

EPA REG. NO.
EPA EST. NO.
001CM

Crompton Manufacturing Company, Inc.
Middlebury, CT 06749

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subsidiary of Crompton Corporation



www.cromptoncorp.com

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

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing.

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 A on an EPA chemical-resistant selection chart.

Applicators and Other Handlers Must Wear: Long-sleeved shirt and long pants; chemical-resistant gloves such as barrier laminate, butyl rubber, neoprene rubber, natural rubber, polyethylene, PVC or viton; shoes plus socks.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY REQUIREMENTS

Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

ENGINEERING CONTROLS

When handlers use closed systems (including water soluble bags), enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6), the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift or runoff from treated areas may be hazardous to aquatic invertebrate organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

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:

- coveralls over long-sleeved shirt and long pants.
- chemical-resistant footwear and chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride.
- shoes plus socks.

STORAGE AND DISPOSAL

Do not contaminate water, food 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.

GENERAL INSTRUCTIONS AND INFORMATION

Do not apply this product through any type of irrigation system.

GENERAL INFORMATION

DIMILIN 80WGS is an insect growth regulator which is effective on a wide variety of insect pests, predominately from the families Lepidoptera and Diptera. Because of its mode of action, which results in a disruption of the normal molting process of the insect larvae, the action of DIMILIN is slow and several days may elapse before the full effect is seen. Because of its specificity, DIMILIN has little or no effect on bees or other beneficial insects and is therefore an excellent product for use in IPM programs.

GENERAL PRECAUTIONS AND RESTRICTIONS

Do not apply this product to bodies of water where swimming is likely to occur.

Do not apply by air.

Do not apply within 25 feet by ground of bodies of water such as lakes, reservoirs, rivers, permanent streams, natural ponds, marshes or estuaries. All applications must include a 25 foot vegetative buffer strip within the buffer zone to decrease runoff.

Spray last three rows windward of surface water using nozzles on one side only, with spray directed away from surface water. Avoid spray going over tops of trees by adjusting or turning off top nozzles. Shut off nozzles on the side away from the grove when spraying the outside row. Shut off nozzles when turning at ends of rows and passing tree gaps in rows.

Restrictions on Rotational Crops: Do not plant food or feed crops in DIMILIN treated soils within 1 month following last application, unless DIMILIN is authorized for use on these crops.

WATER SOLUBLE BAGS (WSB)

HANDLING/STORAGE INSTRUCTIONS

- Do not sell individual water soluble packets.
- Packets are water soluble. Do not handle inner bag with wet hands or wet gloves.
- Do not allow pouches to become wet prior to adding to the spray tank.
- Handle outer container (over wrap bag) carefully to avoid breakage of inner soluble packets.
- Always re-seal outer (over wrap) bag in a manner that protects remaining packets from moisture.
- The WS pouch may become brittle at storage temperatures below 32° F. but the insecticide is not affected.
- Do not remove the WS pouches from the container except for immediate use.
- Use the entire contents of a WSB; do not break open to use partial contents of a WSB.

Mixing Instructions

Consult the APPLICATION INSTRUCTIONS section of this label to determine the number of packets and spray volume required. Fill the mixing tank partially ($\frac{1}{2}$ to $\frac{3}{4}$) with water. With the agitator on, drop the required number of unopened packets into the mixing tank. Allow all the WSBs to dissolve and completely disperse.

Continue agitation while adding the remainder of the water. Depending upon the water temperature and the degree of agitation, the packets should be completely dissolved within 3-5 minutes. Do not put WSBs close to the recirculating inlet and outlet, as they might block the line before completely dissolved.

Tank Mixing Instructions

- Once the WSBs have completely dissolved, add other products in the following order: wettable powder, dry flowable (wetable granules), liquid flowable, liquids, and ECs. Always allow each tank mix partner to disperse fully before adding the next product.
- Do not add boron containing or free chlorine releasable products with the WSB products. Even at very low concentrations, boron will inhibit the solubility of the PVA film. Even minimal carryover concentrations of boron in the spray tank may cause the dissolved water soluble bag PVA material to precipitate and form insoluble residue in the spray tank.

APPLICATION INSTRUCTIONS

USE AND MIXING DIRECTIONS:

1. Fill tank with half of the required amount of water.
2. Begin agitation and add required amount of DIMILIN 80WGS.
3. Continue agitation while adding remainder of water.
4. If permitted for the use site, add proper quantity of oil slowly. To avoid formation of an invert emulsion, use at least 2 parts of water for each part of oil.

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

ALMOND, BEECH NUT, BRAZIL NUT, BUTTERNUT, CASHEW, CHESTNUT, CHINQUAPIN, FILBERT (HAZELNUT), HICKORY NUT, MACADAMIA NUT (BUSH NUT), PECAN, WALNUT (BLACK AND ENGLISH), PISTACHIOS

RESTRICTIONS FOR TREE NUTS GROUP: Do not apply within 28 days

of harvest. Do not exceed 4 (3 for walnuts) applications nor 1 lb. ai per acre (20 oz. per acre) per growing season. Use of oil is not permitted except for the initial dormant stage application.

Ground Application: Apply in sufficient water for thorough coverage, using at least 50 gallons per acre for small trees (≤ 10 feet tall) and at least 100 gallons per acre for larger trees. Using insufficient water for thorough coverage and/or using an uneven spray pattern across the canopy will likely result in less than desired efficacy. If four applications are used, application timing should correspond to dormant to pre-bud swell, at bloom to petal fall, at flowers/leaves/immature nut formation and at hull split.

PEACH TWIG BORER:

DORMANT/DELAYED DORMANT: Apply DIMILIN 80WGS at the rate of 3.75 to 5 oz. per acre with 4 to 8 gallons per acre (1.5 to 2.0 gallons per 100 gallons in a dilute spray) narrow range oil. Two 3.125 oz. water soluble pouches will treat 1.67 and 1.25 acres at 3.75 and 5 oz. per acre respectively. Always use the higher rate in the rate range if the crop has history of heavy infestations.

BLOOM: Apply DIMILIN 80WGS at the rate of 3.75 to 5 oz. per acre starting at early bloom. Two 3.125 oz. water soluble pouches will treat 1.67 and 1.25 acres at 3.75 and 5 oz. per acre, respectively. Always use the higher rate in the rate range if the crop has history of heavy infestations.

SPRING FLIGHT ("May Spray"): Using pheromone traps to determine flight activity, apply DIMILIN 80WGS at the rate of 5 oz. per acre at initial flight activity. Two 3.125 oz. water soluble pouches will treat 1.25 acres at 5 oz. per acre.

SUMMER FLIGHT: Using pheromone traps to determine flight activity, apply DIMILIN 80WGS at the rate of 5 oz. per acre at initial flight activity. Two 3.125 oz. water soluble pouches will treat 1.25 acres at 5 oz. per acre.

PECAN NUT CASEBEARER: For each generation apply DIMILIN 80WGS at the rate of 2.5 to 5 oz. per acre. Two 3.125 oz. water soluble pouches will treat 2.5 and 1.25 acres at 2.5 and 5 oz. per acre, respectively. Note for the first generation this is approximately 8 to 15 days following the first prolonged moth catch (biofix which is defined as the date on which the total of 5 moths are captured in 3 pheromone traps within a 7 day period). States may have a different recommendation for initiation of spraying; please consult authorities such as county and university extension specialists on current recommendations. Use the higher rate for longer residual control, higher pest infestations, low crop load, larger trees or heavy, dense foliage.

HICKORY SHUCKWORM: Apply DIMILIN 80WGS at the rate of 2.5 to 5 oz. per acre starting at half-shell hardening. Two 3.125 oz. water soluble pouches will treat 2.5 and 1.25 acres at 2.5 and 5 oz. per acre, respectively. Make subsequent applications at 21-day intervals to shuck split, or while nuts are susceptible to hickory shuckworm under heavy infestations. Use the higher rate under higher pest infestations, low crop load, larger trees or heavy dense foliage.

PECAN WEEVIL: For suppression of pecan weevils, apply DIMILIN 80WGS at the rate of 2.5 to 5 oz. per acre. Two 3.125 oz. water soluble pouches will treat 2.5 and 1.25 acres at 2.5 and 5 oz. per acre, respectively. Use the higher rate if weevils are attacking fruit and for higher infestations.

FILBERT WORM: Apply 3.75 to 5 oz. DIMILIN 80WGS per acre. Two 3.125 oz. water soluble pouches will treat 1.67 and 1.25 acres at 3.75 and 5 oz. per acre respectively. The lower rate may be used where filbert worm pressure is low and/ or the trees are small. The higher rate is necessary when worm pressure is moderate to high and/ or the trees are large.

DIMILIN 80WGS should be applied within 2 to 3 days after the 1st moth

is caught in pheromone detection traps. Mating takes place within several days of emergence and egg laying begins the next day. DIMILIN 80WGS must be applied prior to egg deposition on the treated foliage. Good uniform coverage of the tree is essential to achieve optimum control of filbertworm with DIMILIN 80WGS. Normally DIMILIN 80WGS will give season long control. If moth pressure remains high, additional applications should be made.

CODLING MOTH: Apply 5 fl. oz. DIMILIN 80WGS per acre. Two 3.125 oz. water soluble pouches will treat 1.25 acres at 5 oz. per acre. DIMILIN is most effective when applied prior to egg laying. DIMILIN 80WGS must be present on the surface upon which eggs are laid; therefore, full coverage spray is necessary. First application should be made when moth flights begin or when moths are found in pheromone traps. The second application should be made approximately 21 days after the first application. For control of the second brood, application should be timed prior to egg laying, similar to first brood.

Because of fluctuations in temperature, the emergence and moth flights of the over-wintering population may be extended over a long period of time. Under such circumstances, DIMILIN 80WGS should be tank mixed with an Organophosphate (OP) insecticide at its lowest label rate. This tank mix should be applied at the normal first OP timing. Later in the season, if egg laying has already occurred before application of DIMILIN 80WGS, it is recommended that DIMILIN 80WGS be tank mixed with an OP as previously described.

FALL WEBWORM, WALNUT CATERPILLAR, REDHUMPED CATERPILLAR, OBLIQUE BANDED LEAFROLLER, FILBERT LEAFROLLER, WINTER MOTH, OMNIVEROUS LEFTIER, OMNIVEROUS LEAFROLLER, VARIGATED LEAFROLLER, ORIENTAL FRUIT MOTH: Apply DIMILIN 80WGS at the rate of 2.5 to 5 oz. per acre at the first sign of larval infestation. Two 3.125 oz. water soluble pouches will treat 2.5 and 1.25 acres at 2.5 and 5 oz. per acre, respectively. Use the higher rate for longer residual control, higher pest infestations, low crop load, larger trees or heavy, dense foliage.

STONEFRUIT (EXCLUDING CHERRIES)

RESTRICTIONS FOR STONE FRUIT: Do not apply after petal fall. Do not exceed 2 applications nor 0.50 lb. ai (10 oz) per acre in any given season. Allow at least 21 days between any 2 applications.

Ground Application: Apply in sufficient water for thorough coverage, using at least 50 gallons per acre for small trees (≤ 10 feet tall) and at least 100 gallons per acre for larger trees. Using insufficient water for thorough coverage and/or using an uneven spray pattern across the canopy will likely result in less than desired efficacy.

PEACH TWIG BORER:

DORMANT/DELAYED DORMANT: Apply DIMILIN 80WGS at the rate of 3.75 to 5 oz. per acre with 4 to 6 gallons per acre (1.5 to 2.0 gallons per 100 gallons in a dilute spray) narrow range oil. Two 3.125 oz. water soluble pouches will treat 1.67 and 1.25 acres at 3.75 and 5 oz. per acre, respectively. Always use the higher rate in the rate range if the crop has a history of heavy infestations.

BLOOM: Apply DIMILIN 80WGS at the rate of 3.75 to 5 oz. per acre starting at early bloom. Include vegetable oil at the rate of 1 qt. per acre. Two 3.125 oz. water soluble pouches will treat 1.67 and 1.25 acres at 3.75 and 5 oz. per acre, respectively. Always use the higher rate in the rate range if the crop has a history of heavy infestations.

FALL WEBWORM, WALNUT CATERPILLAR, REDHUMPED CATERPILLAR, OBLIQUE BANDED LEAFROLLER, FILBERT LEAFROLLER, WINTER MOTH, OMNIVEROUS LEFTIER, OMNIVEROUS LEAFROLLER, VARIGATED LEAFROLLER, ORIENTAL FRUIT MOTH: Apply DIMILIN 80WGS at the rate of 2.5 to 5 oz. per acre at the first sign of larval infestation. Two 3.125 oz. water soluble pouches will treat 2.5 and 1.25 acres at 2.5 and 5 oz. per acre, respectively. Use the higher rate for longer residual control, higher pest infestations, low crop load, larger

trees or heavy, dense foliage.

BELL AND NON-BELL PEPPERS

PEPPER RESTRICTIONS: Up to five applications per growing season may be made as long as 7.5 oz. per acre per season are not exceeded. Allow a minimum of seven days between any two applications. Do not apply within seven days of harvest. Do not tank mix with oil.

FOLIAGE FEEDING LEPIDOPTERAN INSECTS: to control Lepidopteran foliage feeding insects, such as beet armyworms, fall armyworms, and southern armyworms, make initial ground application of 1.25 to 2.50 oz. Dimilin 80WGS per acre when larvae are small to give greater control and minimum damage to leaves and/or fruit. One 3.125 oz. water soluble pouch will treat 2.5 and 1.25 acres at 1.25 and 2.5 oz. per acre, respectively. Use a higher rate if being applied alone and/or infestation is considered heavy. A knockdown tank-mix partner should be used if late instar larvae are present. Use a minimum of 30 gallons of water per acre to give uniform coverage. Additional applications allow for more complete coverage of new foliage and expanding fruit.

PEPPER WEEVIL: to control pepper weevil damage to peppers, apply DIMILIN 80WGS by ground at 1.25 to 2.50 oz. per acre starting at initial flowering. One 3.125 oz. water soluble pouch will treat 2.5 and 1.25 acres at 1.25 and 2.5 oz. per acre, respectively. Use the higher rate if adult infestation is considered moderate to heavy. Use a minimum of 30 gallons of water per acre to give uniform coverage. Apply additional applications at 7 day intervals up to 7 days before harvest. Additional applications allow for more complete coverage of new foliage and expanding fruit. Note that DIMILIN will not control adults; however eggs laid by adults will exhibit reduced hatching in fruits once adults have consumed or contacted residues of DIMILIN on pepper tissue. Use of an adjuvant may facilitate physical absorption into the female weevil.

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 any such use.

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**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

DEC 17 2002

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
enacted July 6, 1947, this pesticide
registered under EPA Reg. No.

400-511