

400-465

09/29/2000

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
1200 Pennsylvania Avenue N.W.
Washington, D.C. 20460

EPA Reg Number:
400-465

Date of Issuance:
SEP 29 2000

NOTICE OF PESTICIDE:
 Registration
 Reregistration

Term of Issuance: Unconditional

Name of Pesticide Product:
Dimilin 25W

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Uniroyal Chemical Company
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.

Based on your response to the Reregistration Eligibility Document, EPA has reregistered the product listed above. This action is taken under the authority of section 4(g)(2)(C) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, is acceptable subject to the comments given below:

1. Revised warranty statement is not acceptable as proposed. It contains overbroad statements in the first and third paragraph concerning limitations of liability, and imply that the buyer has no legal rights to recover damages. Such statements are misleading, and may constitute misbranding under FIFRA. The rights of a person to recover damages from a manufacturer are complicated and vary from one jurisdiction to another, depending on statutes and judicial decisions of individual states. These statements must be deleted from the warranty or qualified in such a way

Continued on Page 2

Signature of Approving Official:

Tina E. Levine

Tina E. Levine, PhD., Chief
Insecticide-Rodenticide Branch
Registration Division (7505C)

Date:

SEP 29 2000

Notice of Reregistration (continued)
EPA Registration No. 400-465

as to make it clear that it is the registrant's intent that Uniroyal Chemical Company's liability be limited and that the user assumes risks, and that these statements are not meant to be statements of law.

2. Revised Confidential Statement of Formula (CSF) dated 5/22/98 is acceptable, and supercedes all previous versions. For the record this is the only valid CSF for this product in our files.

3. Submit two (2) copies of the final printed label before your release this 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 label is enclosed for your records.

Sincerely,



Tina E. Levine, Ph.D., Chief
Insecticide Rodenticide Branch
Registration Division (7505C)

Enclosure

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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.

ACCEPTED
with COMMENTS
In EPA Letter Dated:

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 400-465

DIMILIN® 25W

INSECT GROWTH REGULATOR
WETTABLE POWDER

Net contents:
5 pounds

COMPOSITION

Active Ingredient: (% by weight)

diflubenzuron

N-[[4-(Chlorophenyl)amino]carbonyl]-2,6-difluorobenzamide 25%

Inert Ingredients: 75%

TOTAL 100%

EMERGENCY ASSISTANCE:

UNIROYAL CHEMICAL EMERGENCY PHONE 203-723-3670

SAFETY DATA AND INFORMATION 203-573-3303

TRANSPORTATION EMERGENCY (CHEMTREC) 800-424-9300

Have the product container or label with you when calling a doctor or going for treatment.

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing.

PERSONAL PROTECTIVE EQUIPMENT

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

Mixers and Loaders Using Fixed-Wing Aircraft Must Wear: Long-sleeved shirt and long pants; chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, PVC or viton; shoes plus socks; dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C or a NIOSH approved respirator with any R, P or HE filter).

Follow the 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 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.

**UNIROYAL
CHEMICAL**

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.

ration is most severe when conditions are hot and dry.

Temperature Inversions

Applications should not occur during a temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upwards and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

GENERAL INFORMATION

DIMILIN 25W 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 does not effect bees or other beneficial insects and is therefore an excellent product for use in IPM programs.

Mixing Instructions: Fill the spray tank with half the required amount of water. Begin agitation and add the required amount of DIMILIN 25W. Continue agitation while adding the remainder of the water.

GENERAL PRECAUTIONS AND RESTRICTIONS

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

For Row Crops, Rangeland, and Non-Crop Areas: Do not apply within 25 feet by ground or 150 feet by air of bodies of water such as lakes, reservoirs, rivers, permanent streams, natural ponds, marshes or estuaries. All applications must include a 25 foot buffer strip within the buffer zone to decrease runoff.

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.

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 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.
- Spray should be applied with aerial or ground equipment designed or modified for 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.

TREES AND SHRUBS

DIMILIN 25W is effective in controlling a variety of insect pests found on trees and shrubs in areas such as:

- Public and private forests
- Forest plantings and forest nurseries
- Christmas tree and conifer nurseries
- Residential and municipal shade tree areas and landscape plantings
- Recreational areas such as campgrounds, golf courses, parks, parkways*
- Shelterbelts
- Rights of way and other easements

*In campground or other recreational areas applications should be made during periods of minimal use. Notify persons using recreational facilities or living in the area to be sprayed before application of this or any other pesticide.

NOT FOR USE IN GREENHOUSES, SHADEHOUSES, OR INTERIORSCAPES.

Application Notes: Determining the correct volume of water to apply is highly dependent on the tree height, canopy size and application type.

For ground applications, use an adequate amount of water to obtain thorough coverage to the foliage without excessive runoff. As a general guideline, use the recommended per acre dosage of DIMILIN 25W in the following amounts of water.

- High volume hydraulic sprayer 100 - 400 gallons per acre
- Mist blower, air blast sprayer 5 - 30 gallons per acre

For aerial applications, spray volumes of 1/2 to 5 gallons per acre are recommended.

Continuous agitation during mixing and application is required to maintain suspension of DIMILIN 25W. Do not use equipment without adequate agitation.

Uniform coverage of the foliage is essential for optimum performance. The higher water volumes are recommended when application conditions are less than ideal, for very large or dense tree stands, for high population pressures or when insects have reached older instar stages.

Use Rates and Recommendations: The following table provides use rates and recommendations for optimum performance of DIMILIN 25W. In most cases, applications should be made when insect larvae are in the early instar stages. Applications made to late instar larvae may result in reduced foliage protection and the higher rates should be used.

INSECT PEST	RATE OZS. / ACRE	MAX. / YEAR OZS. / ACRE	APPLICATION TIMING / NOTES
Armyworms	4 - 8	8	Early instar
Bagworms	2 - 4	4	Early instars in mid to late June
Browntail Moth	2 - 4	4	When overwintering 2nd instars become active in late April / early May.
Budworms	4 - 8	8	4th instar
Cankerworms	4 - 8	8	Early instars
Gypsy Moths	1 - 4	4	Early instar and prior to full leaf expansion (5 - 20%)
Hemlock Looper	4 - 8	8	Early instars
Leafminers (lepidopterous)	-	16	Apply at a rate of 8 - 16 ozs. per 100 gallons of water when oviposition begins on new growth flushes.

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ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates. For terrestrial uses (other than on forest canopy to control forest pests), do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark, except under the forest canopy when used to control forest pests. Drift or runoff from treated areas may be hazardous to aquatic invertebrate organisms in neighboring areas. Do not contaminate water when disposing of equipment wastewater 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
- chemical-resistant gloves, such as barrier laminate, butyl, nitrile, neoprene or natural rubber, or polyethylene, PVC or viton.
- 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.

SPRAY DRIFT LABELING

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed 3/4 the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and

never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information.

Information on Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversions).

Controlling Droplet Size

Volume - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.

- **Pressure** - Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- **Number of nozzles** - Use the minimum number of nozzles that provide uniform coverage.
- **Nozzle Orientation** - Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is the recommended practice. Significant deflection from the horizontal will reduce droplet size and increase drift potential.
- **Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Boom Length

For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan or rotor length may further reduce drift without reducing swath width.

Application Height

Applications should not be made at a height greater than 10 feet above the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

Swath Adjustment

When applications are made with a cross-wind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for the displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.)

Wind

Drift potential is lowest between wind speed of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect drift.

Temperature and Humidity

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evapo-

INSECT PEST	RATE OZS. / ACRE	MAX. / YEAR OZS. / ACRE	APPLICATION TIMING / NOTES
Oakworms	4 - 8	8	Early instars in August
Pandora Moth	4 - 8	8	After egg hatch in the fall or to early instars in the spring.
Pine Shoot Moth	4 - 8	8	Early instars
Pine Tip Moths	2 - 4	4	Early second generation instars or when 75% of first generation pupal cases are empty. Peak emergence can be determined by twig sampling, pheromone traps, degree days, etc.
Sawflies	4 - 8	8	Early instars
Spanworms	4 - 8	8	Early instars
Tent Caterpillars	2 - 8	8	Early instar and prior to full leaf expansion.
Tussock Moths	4 - 8	8	Early instars
Webworms	2 - 4	4	Early instars
Weevils (Diaprepes spp.)	-	16	Apply at a rate of 8 - 16 ozs. per 100 gallons of water when adult weevils are present and/or to newly expanded growth. Will not control adult weevils but will reduce reproductive potential of adult weevils, resulting in decreased egg hatch.
Weevils (Terminal) of pine and spruce (Pissodes spp.)	4 - 8	8	Treat adults in early spring after snow melt and prior to egg deposition. Aerial applications not recommended. Thoroughly wet the leader and upper whorls of branches. Add an emulsifiable paraffinic crop oil at the rate of 1 to 2 gallons per acre.
Zimmerman Moth	4 - 8	8	Early instars in late summer prior to construction of hibernaculum.

QUARANTINE PROGRAMS (Gypsy Moth)

For use in Quarantine programs conducted by State Cooperators as well as USDA personnel of both Plant Protection and Quarantine, APHIS and the U.S. Forest Service. For use in eradication of isolated infestations make two applications of 1 to 2 ounces of DIMILIN 25W per acre 7-14 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 7-14 days apart on nursery stock.

ORNAMENTALS

BEET ARMYWORM: 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. The user should initially treat only a small portion of his crop to confirm plant safety under his growing conditions.

COMMERCIAL FISH PRODUCTION PONDS AND TANKS

ANCHOR WORMS (*Lernaea cyprinacea*): For control of anchor worms on ornamental fish and baitfish commercially produced in ponds and tanks. For applications to known volumes of water, apply DIMILIN 25W at a rate of 1.0 gram (2/3 tsp.) per 1000 gallons of water, or 5.0 grams (1 tblspn.) per 5000 gallons of water.

For applications based on surface area and water depth, apply the following amount of product:

Average Depth of Water	Amount of DIMILIN 25W Per Acre of Water Surface
1 foot	0.35 - 0.7 lbs.
2 feet	0.7 - 1.3 lbs.
3 feet	1.0 - 2.0 lbs.
4 feet	1.3 - 2.6 lbs.
5 feet	1.7 - 3.3 lbs.
6 feet	2.0 - 4.0 lbs.

Mix the required amount of DIMILIN 25W in sufficient water to enable uniform application to the pond or tank. Application should be made at first sign of infestation. To maintain consistent control, subsequent applications may be made at 14 to 60 day intervals.

Areas treated with DIMILIN 25W shall contain ornamental and/or bait fish only. Do not apply to areas containing fish intended for human consumption.

Application to water is allowable only to the above-specified areas where all water is contained in a completely "closed system". Treated waters must be contained for a period of 14 days after treatment before being disposed of or released from the ponds or tanks.

DIMILIN 25W is intended for control of only the unattached form of the anchor worm.

MUSHROOMS

SCIARID FLIES: 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 between filling and 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 in a minimum volume of 40 gallons of water per 1000 square feet at the time of casing. 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)

VELVET BEAN CATERPILLAR, MEXICAN BEAN BEETLE AND GREEN CLOVER WORM: 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.