

PM 04 400-483

10/14/98

179 '85



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

EPA Reg. Number:
400-483

Date of Issuance:
OCT 14 1998

NOTICE OF PESTICIDE:
 Registration
 Reregistration

Term of Issuance:
Conditional

Name of Pesticide Product:
Dimilin 4L

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Uniroyal Chemical Co., Inc.
74 Amity Rd.
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)(A) provided that you:

1. Submit and/or cite all data or other material required for registration /reregistration of your product under FIFRA sec. 3(c)(5) or FIFRA sec. 4 when the agency requires all registrants of similar products to submit such data.
2. Make the following label changes before you release the product for shipment:
 - a. Revise the EPA Registration Number to read, "EPA Reg. No. 400-483".
3. Remove the phrase "Except under the forest canopy" from the Environmental Hazards statement as it is not applicable for this use pattern.
4. Submit two (2) copies of the revised printed labeling before you release the product for shipment.

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

10/14/98
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 400-483

EP

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

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

Enclosure

Dimilin® 4L

INSECT GROWTH REGULATOR
MUSHROOMS AND ORNAMENTALS



COMPOSITION

Active Ingredient: (% by weight)	
Diflubenzuron (N-[[[4-Chlorophenyl)amino]carbonyl]-2,6-difluorobenzamide*)	40.4%
Inert Ingredients:	59.6%
TOTAL	100.0%

*Contains 4 lbs. diflubenzuron per gallon

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

Net contents:

FIRST AID

IF ON SKIN: Wash with plenty of soap and water. Get medical attention.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and Other Handlers Must Wear: A long-sleeved shirt and long pants; waterproof gloves, when mixing and loading and also when using hand-held equipment; 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 RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- 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, except under the forest canopy when aerially applied 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 and rinsate.

**UNIROYAL
CHEMICAL**

Dimilin® is a
Registered Trademark
Uniroyal Chemical
Company, Inc.
Middlebury, CT 06749

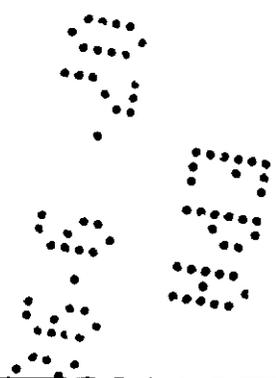
EPA REG. NO.
EPA EST. NO.
001WPS

UNIVERSITY OF MASSACHUSETTS
AGRICULTURAL EXPERIMENT STATION
300 SOUTH GATE STREET
AMHERST, MASSACHUSETTS 01003

OCT 14 1998

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
I am responsible for the pesticide
registered under EPA Reg. No.

400-783



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.

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

For 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
- waterproof gloves
- shoes plus socks.

MUSHROOMS

SCIARID FLIES: DIMILIN 4L will control larvae of sciarid flies in mushroom growing facilities. DIMILIN 4L 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 4L does not directly affect adults but kills the larvae in the growing medium.

Compost treatment: Apply 20 to 32 fl. ozs. of DIMILIN 4L per 1000 square feet to the compost by thorough incorporation. This is equivalent to 30 to 50 ppm active ingredient assuming a compost wet weight of 40 pounds per cubic foot.

Casing treatment: Apply 6.75 fl. ozs. of DIMILIN 4L 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.

ORNAMENTALS

DIMILIN 4L provides an effective means for controlling a variety of insect pests found in and around ornamental plants. DIMILIN 4L can be used in repeat applications as a soil treatment or foliar spray in enclosed commercial structures only, such as greenhouses, shadehouses, and interiorscapes.

Mixing Instructions: Fill the mixing tank with half the required amount of water. Then add DIMILIN 4L with agitation running to insure proper mixing and suspension of product. Fill the tank with the remaining amount of required water.

The mixture of DIMILIN 4L and water should be continuously agitated to assure uniform application.

Compatibility: For broad spectrum insect control, DIMILIN 4L can be tank mixed with other insecticide products. However, do not mix with other products unless prior use has proven compatibility.

SOIL INHABITING INSECTS - FUNGUS GNATS, SHOREFLIES: For control of certain soil inhabiting insects such as fungus gnats and shoreflies, DIMILIN 4L can be applied as a soil drench or as a coarse spray to the soil surface through conventional equipment or through chemigation. When applied according to the recommendations below, DIMILIN will provide control for period of 30 to 60 days.

For bed, bench and container grown plants: For application made as a coarse spray to the soil surface, mix 1 fl. oz. of DIMILIN 4L in 100 gals. (2.5 drops per gal.) of water and apply at a volume of 1 to 3 gallons of final solution per 100 sq. ft. For plug trays, packs and flats with a soil depth of less than 3 inches, do not exceed a volume of 1 gallon per 100 sq. ft. For applications made as a hand applied drench to the soil surface, mix 0.5 fl. oz. of DIMILIN 4L in 100 gals. of water and apply at the volumes recommended below:

Pot Diameter (inches)	Drench Volume (fl.oz./pot)
4	1
5	2
6	3
8	5
10	7
12	10

For optimum results, applications should be made to moist potting media.

NOTE: The drench volumes recommended above are less than those commonly used for application of other soil pesticides, as the volume of final solution applied need only be enough to wet the top 2 inches of potting media. The label rates specified above are determined on the basis of a specific amount of active ingredient applied to a given surface area of media. Exceeding label rates, volumes and number of applications may result in injury, especially to poinsettia, hibiscus and Reiger begonia. For soil drench applications which use a final volume greater than those specified above, the user must reduce the concentration of DIMILIN 4L in water in order to maintain the same amount of active ingredient applied to the given surface area of media. The table below outlines dilution rates for drench applications using alternate volumes:

Pot Diameter (inches)	GALLONS OF WATER REQUIRED PER 0.5 FL. OZ. OF DIMILIN 4L								
	Drench volume (fl.ozs./pot)								
	2	3	4	5	6	7	8	9	10
4	200	300	400						
5	100	150	200	250					
6		100	133	167	200				
8				100	120	140	160		
10						100	114	129	143

Do not make more than one application per crop to poinsettias, hibiscus and Reiger begonia. For other ornamentals, do not make more than four applications per crop. Retreat at 4 to 8 weeks intervals as necessary to maintain control.

NOTE: Do not re-use potting media which has been treated with DIMILIN. Do not apply to plants grown on capillary watering mats.

For infestations to breeding areas under benches and in other non-crop areas: Mix 2 to 4 fl. ozs. DIMILIN 4L in 100 gals of water and apply at rate of 10 - 30 gals. per 1000 sq. ft. of area. Repeat applications at 4 to 8 week intervals to maintain control.

FOLIAR FEEDING INSECTS - ARMYWORMS, LEAFMINERS, WHITEFLIES: For control of certain foliar feeding insects such as armyworms and lepidopterous leafminers, and suppression of whiteflies, mix 2 to 4 fl. ozs. of DIMILIN 4L in 100 gallons of water and

apply as a spray to the foliage through conventional spray equipment. The recommended spray volume is one gallon per 200 sq. ft. of bench area.

DIMILIN has been found to aid in the control of whiteflies when used in combination or in rotation with other effective insecticides in an IPM program. For optimum suppression of whitefly, spray applications should thoroughly wet the leaf undersides. Begin applications at first sign of insects and repeat applications at 7 day intervals as needed to provide suppression on new foliage growth.

PLANT TOLERANCE:

Neither the manufacturer nor the seller has determined whether or not DIMILIN 4L can be used safely on all ornamental plants. Prior to any large scale application on such plants, the user must determine the safety of DIMILIN 4L by testing a small number of the type of plants to be treated at the recommended rates and under the desired growing conditions. Observe the treated plants for symptoms of phytotoxicity, which may occur as interveinal chlorosis and/or marginal necrosis on sensitive plants. This may take up to three months for applications made to the soil. The user assumes all risks arising out of application to untested plants.

USE DIRECTIONS FOR CHEMIGATION:

In addition to the above use rates and recommendations, the following precautions must be observed when using this product in any type of irrigation system:

Apply this product only through the following systems:

1) Overhead sprinklers such as impact or micro-sprinklers, 2) Mist-type irrigation such as fog systems, 3) Hand-held calibrated irrigation equipment such as the hand-held wand with injector.

Do not apply this product through any other type of irrigation system. Crop injury or lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

If you have any questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.

The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days of the year.

Chemigation systems connected to public water systems must contain a functional, reduced pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water systems should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where the pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

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: 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.

EMERGENCY ASSISTANCE:

UNIROYAL CHEMICAL EMERGENCY PHONE	203-723-3670
SAFETY DATA AND INFORMATION	203-573-3303
TRANSPORTATION EMERGENCY (CHEMTREC)	800-424-9300

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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