

Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060. Approval expires 2-28-95



United States  
Environmental Protection Agency  
Washington, DC 20460

Registration  
Amendment  
 Other

OPP Identifier Number  
241922

Application for Pesticide - Section I

1. Company/Product Number 400-469	2. EPA Product Manager Dennis H. Edwards	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Adept	PM# 19	
5. Name and Address of Applicant (Include ZIP Code) Uniroyal Chemical Co., Inc. 74 Amity Rd. Bethany, CT 06524-3402 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

NOTIFICATION

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Alternate brand name: "Adept"

NOTIFICATION

JUN 27 1996

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Metal Plastic Glass Paper Other (Specify) _____		
* Certification must be submitted		If "Yes" Unit Packaging wgt. _____	No. per container _____	If "Yes" Package wgt. _____	No. per container _____
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

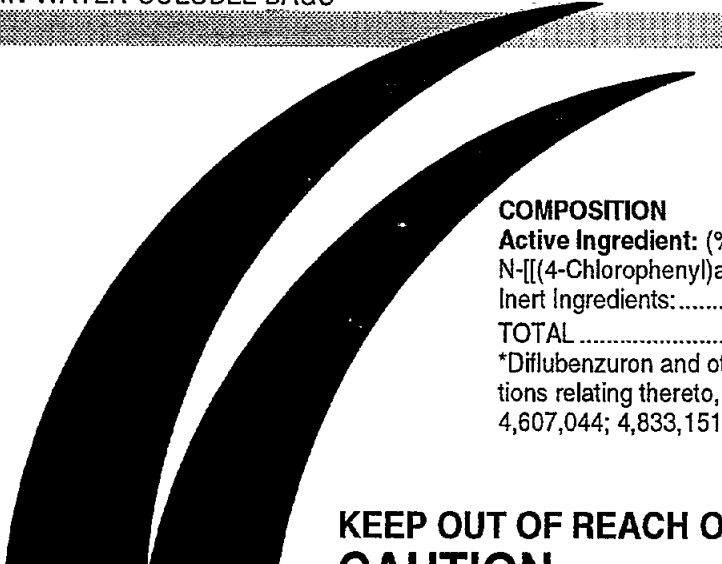
Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Judith O. Ball	Title Registration Specialist	Telephone No. (Include Area Code) (203) 393-2163
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped) JUN 17 P 2:39 RECD EPA/OPP/DPDI
2. Signature <i>Judith O. Ball for</i>	3. Title U.S. Registration Mgr.	
4. Typed Name Willard F. Cummings	5. Date	

# Adept™

2 7 4

GREENHOUSE INSECT GROWTH REGULATOR  
IN WATER-SOLUBLE BAGS



## COMPOSITION

Active Ingredient: (% by weight)

N-[[[4-Chlorophenyl)amino]carbonyl]-2,6-difluorobenzamide\* .....25.0%

Inert Ingredients: .....75.0%

TOTAL .....100.0%

\*Diflubenzuron and other benzoylphenylurea insecticidal compounds, and compositions relating thereto, are covered by U.S. Patent Numbers 4,166,124; 4,399,152; 4,607,044; 4,833,151; 5,142,064 and other patents pending.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**NOTIFICATION**

JUN 27 1994

Net contents:

## STATEMENT OF PRACTICAL TREATMENT

IF ON SKIN: Wash affected area with plenty of soap and water.

## PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Avoid contact with skin.

### PERSONAL PROTECTIVE EQUIPMENT

**Applicators and Other Handlers Must Wear:** A long-sleeved shirt and long pants; 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.

### ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to crab, shrimp and other aquatic invertebrates. For terrestrial uses, 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 organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

**UNIROYAL  
CHEMICAL**

Adept™ is a  
Trademark of  
Uniroyal Chemical  
Company, Inc.  
Middlebury, CT 06749

EPA REG. NO. 400-469  
EPA EST. NO.  
001WPS/061396

**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
- waterproof gloves
- shoes plus socks.

**DIRECTIONS FOR USE**

**ORNAMENTALS**

ADEPT provides an effective means for controlling a variety of insect pests found in and around ornamental plants. ADEPT 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:** Do not allow bags to become wet before adding to the spray tank. Wear dry gloves when handling water-soluble bags. Minimize handling of bags since excessive handling may cause rupture. Fill the mixing tank with half the required amount of water and add water-soluble bag(s) of ADEPT. Then fill the tank with the remaining amount of required water. Wait two minutes for bag(s) to dissolve. Close tank and shake or agitate before and during use in order to ensure proper suspension of the wettable powder. Shake or reagitte sprayer before use if application is interrupted. Make up only the amount of application volume as required.

**Compatibility:** For broad spectrum insect control, ADEPT 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, ADEPT 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, ADEPT will provide control for a period of 30 to 60 days.

**For bed, bench and container grown plants:** For applications made as a coarse spray to the soil surface, mix 2 ozs. (2 bags) of ADEPT in 100 gals. 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 1 oz.

(1 bag) of ADEPT 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 ADEPT 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 OZ. OF ADEPT								
	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 ADEPT. Do not apply to plants grown on capillary watering mats.

**For infestations to breeding areas under benches and in other non-crop areas:** Mix 4 to 8 ozs. (4 to 8 bags) ADEPT 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 4 to 8 ounces (4 to 8 bags) of ADEPT 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.

ADEPT 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 ADEPT can be used safely on all ornamental plants. Prior to any large scale application on such plants, the user should determine the safety of ADEPT 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 WITHIN ENCLOSED STRUCTURES:**

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) Micro-irrigation such as spaghetti-tube or individual tube irrigation,
- 3) Mist-type irrigation such as fog systems,
- 4) 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**—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.

**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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