

Reg # 275-51

PM-18

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Feb 11



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

FEB 2 1993

MARVIN H. ALPHIN  
ABBOTT LABORATORIES  
CHEMICAL AND AGRICULTURAL PRODUCTS DIV.  
1401 SHERIDAN ROAD  
NORTH CHICAGO, IL. 60064

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 08/12/93 in Response to PR Notice 93-7  
EPA REG. NO. 275-51  
DIPEL 8L

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

**WHAT YOU NEED TO DO NEXT:**

Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable  
Printed with Soy/Canola ink  
contains at least 50% recycled content

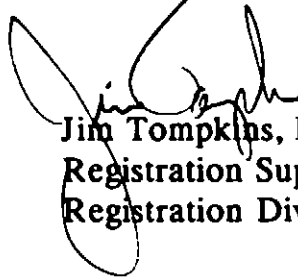
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division

Marvin H. Alphin  
ABBOTT LABORATORIES  
CHEMICAL AND AGRICULTURAL PRODUCTS DIV  
1401 SHERIDAN RD  
NORTH CHICAGO IL 60064

Comment for: EPA Reg Nr.275-51  
DIPEL 8L

The following specific comments pertain to your WPS  
labeling submission concerning the product  
cited above:

\*\*ACCEPT WITH NO COMMENTS\*\*

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DIPEL® 8L  
EMULSIFIABLE SUSPENSION  
BIOLOGICAL INSECTICIDE

**ACTIVE INGREDIENT:** *Bacillus thuringiensis*, var. *kurstaki*,  
Lepidopteran Active Toxin.....3.5%

**INERT INGREDIENTS**.....96.5%

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**TOTAL**.....100.0%

**POTENCY:** 17,600 International Units of Potency per mg  
(64 Billion International Units per gallon)

Potency units should not be used to adjust use rates beyond those specified in the Directions for Use Section.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**STATEMENT OF PRACTICAL TREATMENT**

- IF ON SKIN:** Wash with plenty of soap and water. Get medical attention if irritation persists.
- IF IN EYES:** Flush eyes with plenty of water. Get medical attention if irritation persists.

Chemical and Agricultural Products Division  
Abbott Laboratories  
North Chicago, IL 60064

EPA Reg. No. 275-51  
EPA Est. No. 33762-IA-1

Net Contents:

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

FEB 2 1994

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
275-51

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

**CAUTION**

Avoid contact with skin, eyes or clothing. ~~In case of contact immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.~~

**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 E on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves, such as barrier laminate, or nitrile rubber, or neoprene rubber or viton.
- Shoes plus socks.

**User Safety Recommendations**

Users should:

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

**ENVIRONMENTAL HAZARDS**

Do not contaminate water when disposing of equipment washwaters.

**DIRECTION FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. 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 (WPS) for agricultural pesticides, which is designed to protect the protection of agricultural workers, farm families, and communities in greenhouses and borders of agricultural pesticides. It also 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 intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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 enter or allow 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 or nitrile rubber or neoprene rubber or viton.
- Shoes plus socks.

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Agricultural Use Requirements. These uses include: ~~use in residential areas, lawns, golf courses, tennis courts, swimming pools, and other recreational areas; use in parks, playgrounds, and other public areas; use in schools, day care centers, and other educational facilities; use in hospitals, nursing homes, and other medical facilities; use in homes, hotels, and other buildings; use in restaurants, bars, and other food service establishments; use in public places, such as airports, bus stations, and train stations; use in public works, such as streets, sidewalks, and curbs; use in utility areas, such as power lines, gas lines, and water lines; use in industrial areas, such as factories, warehouses, and storage yards; use in construction sites, such as building foundations, walls, and floors; use in agricultural areas, such as pastures, fields, and orchards; use in forested areas, such as woodlands, parks, and preserves; use in riparian areas, such as streams, rivers, and lakes; use in wetlands, such as marshes, swamps, and bays; use in coastal areas, such as beaches, dunes, and estuaries; use in sensitive areas, such as wildlife refuges, national parks, and historic sites; use in areas with known or suspected contamination of water, soil, or air; use in areas with known or suspected contamination of plants or animals; use in areas with known or suspected contamination of crops or livestock; use in areas with known or suspected contamination of food or feed; use in areas with known or suspected contamination of water, soil, or air; use in areas with known or suspected contamination of plants or animals; use in areas with known or suspected contamination of crops or livestock; use in areas with known or suspected contamination of food or feed.~~

**Do not enter treated areas without protective clothing until sprays have dried.**

**STORAGE AND DISPOSAL**

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

**STORAGE**

Keep containers tightly closed when not in use. Do not store at temperatures below 0°F or above 90°F. Roll or shake the drum before dispensing.

**PESTICIDE DISPOSAL**

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Do not contaminate water when disposing of equipment washwaters.

**CONTAINER DISPOSAL**

Triple rinse (or equivalent), then puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**APPLICATION DIRECTIONS  
FOREST, TREES AND SHRUBS**

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

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

DIPEL 8L is a highly selective insecticide for use against listed caterpillars (larvae) of lepidopterous insects. Close scouting and early attention to infestations is highly recommended. Larvae must eat deposits of DIPEL 8L to be affected. Always follow these directions:

- \* Treat when larvae are young (early instars) before extensive damage has occurred.
- \* Larvae must be actively feeding on treated, exposed plant parts.
- \* Thorough spray coverage is needed to provide a uniform deposit of DIPEL 8L at the site of larval feeding.
- \* Under heavy pest population pressure, use the higher label rates and/or consider a second application.
- \* If attempting to control a pest with a single spray, make the treatment when egg hatch is essentially complete, but before extensive crop damage occurs.
- \* An approved spreader-sticker may be added to diluted tank mixes to improve weather-fastness of the spray deposits. Do not add sticker to the undiluted product.

After eating a lethal dose of DIPEL 8L, larvae stop feeding within the hour and will die within several days. Dying larvae move slowly, discolor, then shrivel, blacken and die.

DIPEL 8L may be applied in conventional ground or aerial equipment with quantities of water sufficient to provide thorough coverage of infested plant parts. The amount of water needed per acre will depend on weather, spray equipment, and plant canopy type. **DIPEL 8L should always be mixed with at least an equal amount of water for diluted applications.** Fill the mix tank or plane hooper with the desired quantity of water. Include rinse water from containers. Start the mechanical or hydraulic agitation to provide moderate circulation before adding DIPEL 8L. Add the desired volume of DIPEL 8L to the tank mix or plane hooper and continue agitation. Then add rinsate from the original containers. Mild agitation is sufficient to maintain the mixture in suspension during loading and spraying. Do not mix more DIPEL 8L than can be used in a 144-hour period.

DIPEL 8L can also be applied undiluted from aircraft for control of Spruce Budworm, Hemlock Looper, Jack Pine Budworm, and Gypsy Moth. It is recommended that rotary or other atomizers be used to provide droplet Volume Mean Diameters (VMD) of 20-80 microns for needle conifers and 50-150 microns for deciduous hardwoods. **CAUTION:** Rinse and flush spray equipment thoroughly following each use. Use oil solvent for flushing and rinsing undiluted DIPEL 8L.



DIPEL 8L may be used to protect trees and shrubs such as in:

- Forests
- Residential, municipal and shade tree areas
- Recreational areas such as campgrounds, golf courses, parks, and parkways
- Shelterbelts, right of ways and other easements

**DIPEL 8L FOR TREES AND SHRUBS**

CROP	PEST	OZ./100 GAL./A* (GROUND EQUIPMENT)	OZ./ACRE (AERIAL** APPLICATION)	BIU'S/A ***
Forest, shade, Sugar Maple, Trees & Shrubs	Bagworm	8 to 32	8 to 32	4 to 16
	Blackheaded Budworm	16 to 32	16 to 32	8 to 16
	Browntail Moth	16 to 60	16 to 60	8 to 30
	California Oakworm	8 to 32	8 to 32	4 to 16
	Douglas Fir Tussock Moth	16 to 60	16 to 60	8 to 30
	Eastern Tent Caterpillar	8 to 32	8 to 32	4 to 16
	Elm Spanworm	8 to 32	8 to 32	4 to 16
	Fall Webworm	8 to 32	8 to 32	4 to 16
	Forest Tent Caterpillar	16 to 32	16 to 32	8 to 16
	Fruittree Leafroller	8 to 16	-	4 to 8
	Green Striped Maple Worm	16 to 32	16 to 32	8 to 16
	Gypsy Moth	16 to 80	16 to 80	8 to 40
	Jack Pine Budworm	16 to 32	16 to 32	8 to 16
	Mimosa Webworm	8 to 16	-	4 to 8
	Oak Leaf-tier	16 to 32	16 to 32	8 to 16
	Pine Butterfly	16 to 32	16 to 32	8 to 16
	Redhumped Caterpillar	8 to 32	8 to 32	4 to 16
	Saddleback Caterpillar	8 to 32	-	4 to 16
	Saddled Prominent Caterpillar	8 to 32	8 to 32	4 to 16
	Spring & Fall Cankerworm	8 to 32	8 to 32	4 to 16
	Spruce Budworms <sup>1</sup>	16 to 60	16 to 60	8 to 30
	Western Tussock Moth	8 to 32	8 to 32	4 to 16
	Hemlock Looper	24 to 48	24 to 48	12 to 24
	Eastern Pine Looper	24 to 48	24 to 48	12 to 24
	Leafrollers	16 to 32	16 to 32	8 to 16
Buck Moth	16 to 80	16 to 80	8 to 40	
Oak Skeletonizer	16 to 32	16 to 32	8 to 16	
Tortrix	16 to 32	16 to 32	8 to 16	

\* Water dilution rate for hydraulic sprayer may be varied depending on coverage. For mist blowers, mix the applicable amount (oz.) in up to 10 gallons of water.

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**\*\* For aerial application, use in up to 10 gallons of water depending on type and density of trees. For best results spray systems which deliver droplet VMD of 150 microns or less should be used. DIPEL 8L should always be mixed with at least an equal amount of water for diluted applications. Note: For Hemlock Looper and Eastern Pine Looper use 1-2 applications, undiluted, beginning at peak first instar. When applying two applications, apply each application at a recommended rate of 24 ounces/A. First application is applied at peak first instar and second application is at second instar. For the high rate, i.e. 32 ounces/A, apply single application only at peak first instar.**

DIPEL 8L may be sprayed undiluted for the control of Spruce Budworms, Jack Pine Budworm and Gypsy Moth.

\*\*\* Billion International Units per acre

<sup>1</sup> Use rates greater than 16 ounces in Northern states for heavy populations.

#### NOTICE TO USER

Seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning use of this product other than as indicated on the label. User assumes all risks of use, storage or handling not in strict accordance with accompanying directions.

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