

FEB 01 1994

Mr. Daniel J. Rushforth
Abbott Laboratories
Chemical and Agricultural Products Division
1401 Sheridan Road
North Chicago, Illinois 60064

Handwritten: 275/171

Dear Mr. Rushforth:

Subject: Dipel 8AF
EPA Reg. No.: 275-67
Your submission of October 20, 1993

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c) (7) (A) is acceptable provide that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c) (5) when the Agency requires all registrants of similar products to submit such data.

2. Submit five (5) 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 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.

Note: This approval is only for: The increasing of use rates to make them more compatible aerial application, and the addition of two other pests to the labeling, coneworm and Asian gypsy moth, and the differentiation of hemlock looper and gypsy moth as Eastern and Western.

Sincerely yours,

Handwritten signature: Phil Hutton

Phil Hutton, PM-18
Insecticide Rodenticide Branch
Registration Division (7505C)

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

0 9 7

DIPEL® BAF
AQUEOUS FLOWABLE
BIOLOGICAL INSECTICIDE
NOT REGISTERED IN CALIFORNIA

ACTIVE INGREDIENT: <i>Bacillus thuringiensis</i> subsp. <i>kurstaki</i> , Lepidopteran Active Toxin.....	2.9%
INERT INGREDIENTS	97.1%
TOTAL	100.0%

POTENCY: 14,500 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.

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

EPA Reg. No. 275-67
EPA Est. No. 33762-1A-1

Net Contents:

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ACCEPTED
with COMMENTS
in EPA Letter Dated

FEB 01 1994

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

275-67

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

CAUTION

Avoid contact with skin, eyes or clothing.

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

ENVIRONMENTAL HAZARDS

Do not contaminate water when disposing of equipment washwaters.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. [REDACTED]

[REDACTED]

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[REDACTED]

[REDACTED]

STORAGE AND DISPOSAL

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

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- 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 8AF, larvae stop feeding within the hour and will die within several days. Dying larvae move slowly, discolor, then shrivel, blacken and die.

DiPel 8AF is completely water miscible and may be applied through conventional ground or aerial equipment with quantities of water sufficient to provide thorough coverage of infested plant parts. The volume of water needed per acre will depend on weather, spray equipment and plant canopy type. It is recommended that DiPel 8AF be added to water and not in reverse order. Fill the mix tank with the appropriate quantity of water excluding the anticipated volume of rinse water from containers.

Start the mechanical or hydraulic agitation to provide moderate circulation before adding DiPel 8AF. Add the required volume of DiPel 8AF to the mix tank or plane hopper and continue circulation then add rinse water from the original containers. Mild agitation is sufficient to maintain the mixture in suspension during loading and spraying. Do not mix more DiPel 8AF that can be used in a 144 hour period.

CAUTION: Rinse and flush spray equipment thoroughly with water following each use.

DiPel 8AF 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 to 80 microns for needle conifers and 50-150 microns for deciduous hardwoods. After prolonged storage, undiluted DiPel 8AF should be recirculated once to redistribute prior to use. During loading and spraying, agitation of the undiluted product is unnecessary and should be avoided.

DiPel 8AF 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
- Ornamental, shade trees and forest nurseries
- Shelterbelts, rights of way, and other easements

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DIPEL 8AF FOR TREES AND SHRUBS

CROP	PEST	OZ./100 GAL./A* (GROUND EQUIPMENT)	OZ./ACRE (AERIAL** APPLICATION)	BIU'S/A***
Forest, shade, Sugar Maple, Seed Orchards, Trees & Shrubs	Bagworm	8 to 32	8 to 32	8 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			
	Elm Spanworm			
	Fall Webworm	16 to 48	8 to 32	8 to 24
	Forest Tent Caterpillar	16 to 48	16 to 48	8 to 16
	Fruitree Leafroller	8 to 16	-	4 to 8
	Green Striped Maple Moth	16 to 32	16 to 32	8 to 16
	Gypsy Moth	16 to 32	16 to 32	8 to 16
	[REDACTED]			
	Jack Pine Budworm	16 to 32	16 to 32	8 to 16
	Mimosa Webworm	8 to 16	-	4 to 8
	Oak Leafier	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			
	[REDACTED]			
	Budworm	16 to 32	16 to 32	8 to 16
	[REDACTED]			
	Budworm	16 to 32	16 to 32	8 to 16
	Western Tussock Moth	8 to 32	8 to 32	8 to 16
	[REDACTED]	16 to 48	16 to 48	8 to 24
	[REDACTED]	16 to 48	16 to 48	8 to 24
	Eastern Pine Looper	16 to 48	16 to 48	8 to 24
	Leafrollers	16 to 32	16 to 32	8 to 16
Buck Moth	16 to 60	16 to 60	8 to 40	
Oak Skeletonizer	16 to 32	16 to 32	8 to 16	
Tortrix	16 to 32	16 to 32	8 to 16	
[REDACTED]				

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[REDACTED]

*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.

**For diluted serial 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. Note: For Hemlock Looper and Eastern Pine Looper use 1-2 applications, beginning at peak first instar. When applying two applications, first application is at peak first instar and second application is at second instar.

***Billion International Units per acre

¹Use rates greater than 16 ounces in Northern states for heavy populations.

NOTICE TO USER

Seller makes no warranty, express or implied, or 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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