

275-18

8-2-76

AUG 2 1976

1 of 5

Agricultural & Veterinary Product Div.  
Abbott Laboratories  
North Chicago, Illinois 60054

Gentlemen:

Subject: DIPEL WP  
EPA Reg. No. 275-18  
Application of June 18, 1976

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable, and a stamped copy is enclosed for your records.

It appears to us that your EPA Reg. Number should be 275-18-AA with 50546 deleted. We suggest you contact California Department of Agriculture and please inform us if we're correct.

Sincerely,

Charles T. Mitchell  
Product Manager (PM-17)  
Insecticide-Rodenticide Branch

WH-567:IRB:CTMitchell:vef:acs:638-6767:July 20, 1976

**APPLICATION RATE**

Thorough coverage is essential for good control.

DIPEL for Food Crops		
Crop	Pest	Pounds/Acre
Broccoli, Cabbage, Cauliflower, Collards, Kale, Lettuce, Mustard and Turnip Greens, Spinach	Cabbage Looper	1/2 to 1 lb.
	Imported Cabbageworm	1/4 to 1/2 lb.
	Diamondback Moth	1/4 to 1/2 lb.
Beans, Brussels Sprouts (Ground only), Cucumbers, Melons, Potatoes	Cabbage Looper	1/2 to 1 lb.
Celery	Celery Looper and Cabbage Looper	1/2 to 1 lb.
Tomatoes	Cabbage Looper Tomato Hornworm Tomato Fruitworm	1/2 to 1 lb. 1/4 to 1/2 lb. 1* lb.

\*Apply on Regular Spray Program every 5 - 7 days.

DIPEL for Other Crops		
Crop	Pest	Pounds/Acre
Tobacco	Budworm	1/2 to 1 lb.
	Cabbage Looper	1/2 to 1 lb.
	Hornworm	1/4 to 1/2 lb.
Grapes (Ground equipment only)	Grape Leaf Folder	1/2 to 3/4 lb.
Alfalfa (Calif./Ariz./N. Mex.)	Alfalfa Caterpillar	1/2 to 3/4 lb.
Peas (Northwestern U.S.)	Alfalfa Looper	1/2 to 1 per 5 gals. by air
Chrysanthemums	Cabbage Looper	1/2 to 1 lb./acre or 100 gallons

In combination with chlordimeform only. See directions on the accompanying supplemental labeling.

Soybeans	Green Cloverworm	
	Velvetbean Caterpillar	**1/4 to 1/2
	Soybean Looper Cabbage Looper	**1/2 to 1

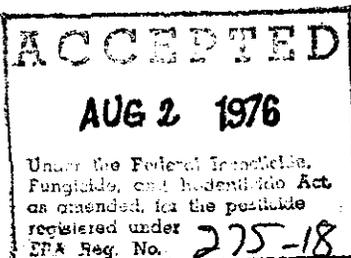
\*\*For ground equipment, 8 to 20 gallons of final spray per acre are recommended. For aerial application 2 to 5 gallons of final spray per acre should be used. The use of a suitable spreader-sticker is recommended particularly in aerial sprays to aid in coverage.

DIPEL for Greenhouse Crops		
Crop	Pest	Pounds/100 Gallons Spray
Cabbage, Cucumbers, Lettuce, Tomatoes	Cabbage Looper	1/2 to 1 lb.
Chrysanthemums	Cabbage Looper	1/2 to 1 lb.



**BIOLOGICAL INSECTICIDE  
WETTABLE POWDER**

LIST NO. 5188 03



(*Bacillus thuringiensis*)

Active Ingredient:

*Bacillus thuringiensis*, Berliner, 16,000 International Units of Potency per mg. (at least 25 billion viable spores per g.)\* ----- 3.2%  
Inert Ingredients ----- 96.8%

\*Equivalent to 7.26 billion International Units of potency per pound of this product.

KEEP OUT OF REACH OF CHILDREN.

**CAUTION**

EPA Registration No. 275-18-AA-50546

EPA Est. 33762-1A-1

Lot No.



Agricultural and Veterinary Products Division  
Abbott Laboratories  
North Chicago, Illinois 60064

01-5350-2/R9

**APPLICATION RATE**

Thorough Coverage is essential for good control

DIPEL for Forest, Ornamental and Shade Trees		
Pest	Pounds/100 Gallons* (Ground Equipment)	Pounds/Acre** (Aerial Application)
Gypsy Moth (Northeastern U.S.)	1/2 to 1 lb.	1 lb.
Bagworm	1/2 to 1 lb.	—
Red-Humped Caterpillar (California only)	1/4 to 1/2 lb.	1/4 to 1 lb.
Spring & Fall Cankerworm	1/4 to 1/2 lb.	1/2 lb.
Fall Webworm	1/2 lb.	—
Elm Spanworm	1 lb.	—
Tent Caterpillar	1/4 to 1/2 lb.	—
Forest Tent Caterpillar	1/2 lb.	1/2 lb.

\*Rate for hydraulic sprayer. For mist-blowers mix the applicable amount (lbs.) per 10 gallons of water.

\*\*For aerial application apply the applicable amount (lbs.) per acre in one (1) to five (5) gallons of water depending on type and density of trees. Spray when egg hatch is essentially complete and larvae are between the 1st and 3rd instars. Leaf expansion at this time should be 25-50 percent. Repeat application in approximately 10-14 days if significant reinfestation or extended egg-hatch occurs. For best results, spray systems which deliver droplet sizes of 100-200 microns should be used.

**DIRECTIONS FOR USE**

DIPEL (*Bacillus thuringiensis*) Wettable Powder may be used in conventional aerial or ground spray equipment with suitable quantities of water to provide thorough coverage. Fill the spray tank half full of water. Slowly sprinkle the required amount of Dipel into the tank while agitating. Then, agitate thoroughly while bringing the total volume of water to the required level. A suitable spreader-sticker may be combined with Dipel.

Apply Dipel when pests are first noticed and repeat at intervals sufficient to maintain control. Thorough coverage on both sides of leaves is essential since the insect must ingest Dipel. After ingestion, the larvae stop feeding and death follows. Do not allow the spray mixture to stand in the tank for more than 12 hours.

*Bacillus thuringiensis* is exempt from the requirement of a tolerance when used on the crops listed on this label in accordance with the directions for use.

For Smaller Spray Volumes:

If Rate Is	Use This Amount Per Gallon
1/4 lb./acre or 100 gals.	1/2 tsp.
1/2 lb./acre or 100 gals.	1 tsp.
1 lb./acre or 100 gals.	2 tsp.

20/15

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# DIPEL

BIOLOGICAL INSECTICIDE  
WETTABLE POWDER

LIST NO. 5188

# DIPEL<sup>®</sup>

## *Bacillus thuringiensis*



For use on COTTON see directions on the accompanying supplemental labeling.

### Active Ingredient

*Bacillus thuringiensis*, Berliner, 15,000  
International Units of Potency per mg  
(at least 25 billion  
viable spores per g.) 12%  
Inert Ingredients 88%  
Equivalent to 7.26 billion international units of  
potency per pound of this product

KEEP OUT OF REACH OF CHILDREN

### CAUTION

NET WEIGHT 2 LBS.

PUSH UP



PUSH UP

TO OPEN

### General Directions for Use

DIPEL<sup>®</sup> (*Bacillus thuringiensis*) may be used in conventional aerial or ground spray equipment with suitable quantities of water to provide thorough coverage. Fill the spray tank half full of water. Slowly sprinkle the required amount of DIPEL into the tank while agitating. Then, agitate thoroughly while bringing the total volume of water to the required level. A suitable spreader-sticker may be combined with DIPEL.

Apply DIPEL when pests are first noticed and repeat at intervals sufficient to maintain control. Thorough coverage on both sides of leaves is essential since the insect must ingest DIPEL. After ingestion, the larvae stop feeding and death follows. Do not allow the spray mixture to stand in the tank for more than 12 hours.

*Bacillus thuringiensis* is exempt from the requirement of a tolerance when used on the crops listed on this label in accordance with the directions for use.

### For Smaller Spray Volumes:

Rate is:	Use This Amount per Gallon:
3/4 lb./acre or 100 gals.	1/2 tsp.
1 1/2 lb./acre or 100 gals.	1 tsp.
3 lb./acre or 100 gals.	2 tsps.

09-7245-2/R10





4015

# DIPEL

## Bacillus thuringiensis

S-12473

S. 12473

2

SEALED PATENTS  
ISSUED AND PENDING  
BLANKS made under license from  
EX-CELL-O CORPORATION by

### Weyerhaeuser

The Tree Growing Company

OPEN OTHER SIDE

4.99.

### APPLICATION RATE

Thorough Coverage is essential for good control

#### DIPEL for Forest, Ornamental and Shade Trees

Pest	Pounds/100 Gallons* (Ground Equipment)	Pounds/Acre** (Aerial Application)
Gypsy Moth (Northeastern U.S.)	1/2 to 1	1
Bagworm	1/2 to 1	1
Red-Humped Caterpillar (California only)	1/4 to 1/2	1/4 to 1
Spring & Fall Cankerworm	1/4 to 1/2	1/2
Fall Webworm	1/2	1
Elm Spanworm	1	1
Teat Caterpillar	1/4 to 1/2	1
Forest Tent Caterpillar	1/2	1/2

\*Rate for hydraulic sprayer. For mist-blowers mix the applicable amount (lbs.) per 10 gallons of water.

\*\*For aerial application apply the applicable amount (lbs.) per acre in one (1) to five (5) gallons of water depending on type and density of trees. Spray when egg hatch is essentially complete and larvae are between the 1st and 3rd instars. Leaf expansion at this time should be 25-50 percent. Repeat application in approximately 10-14 days if significant reinfestation or extended egg-hatch occurs. For best results, spray systems which deliver droplet sizes of 100-200 microns should be used.

E.P.A. Registration No. 275-18-AA-50546

E.P.A. Est. 33762-IA-1



AGRICULTURAL AND VETERINARY PRODUCTS DIVISION

ABBOTT LABORATORIES, NORTH CHICAGO, ILL.

Lot No.

### APPLICATION RATE

Thorough Coverage is essential for good control

#### DIPEL for Food Crops

Crop	Pest	Pound/Acre
Broccoli, Cabbage, Cauliflower, Collards, Kale, Lettuce, Mustard and Turnip Greens, Spinach	Cabbage Looper Imported Cabbageworm Diamondback Moth	1/2 to 1 1/4 to 1/2 1/4 to 1/2
Beans, Brussels Sprouts (Ground only), Cucumbers, Melons, Potatoes	Cabbage Looper	1/2 to 1
Celery	Celery Looper and Cabbage Looper	1/2 to 1
Tomatoes	Cabbage Looper Tomato Hornworm Tomato Fruitworm	1/2 to 1 1/4 to 1/2 1

\*Apply on Regular Spray Program every 5-7 days.

#### DIPEL for Other Crops

Crop	Pest	Pound/Acre
Tobacco	Budworm Cabbage Looper Hornworm	1/2 to 1 1/2 to 1 1/4 to 1/2
Grapes (Ground equipment only)	Grape Leaf Folder	1/2 to 1
Alfalfa (Calif./Ariz./N. Mex.)	Alfalfa Caterpillar	1/2 to 1
Peas (Northwestern U.S.)	Alfalfa Looper	1/2 to 1 per 5 gals. by air
Chrysanthemums	Cabbage Looper	1/2 to 1 lb./acre or 100 gallons
Soybeans	Green Cloverworm Velvetbean Caterpillar	1/2 to 1 1/4 to 1/2
	Soybean Looper Cabbage Looper	1/2 to 1

For ground equipment, 8 to 20 gallons of final spray per acre are recommended. For aerial application 2 to 5 gallons of final spray per acre should be used. The use of a suitable spreader-sticker is recommended particularly in aerial sprays to aid in coverage.

#### DIPEL for Greenhouse Crops

Crop	Pest	Lb./100 Gallons Spray
Cabbage, Cucumbers, Lettuce, Tomatoes	Cabbage Looper	1/2 to 1
Chrysanthemums	Cabbage Looper	1/2 to 1

5045

**ACCEPTED**  
**AUG 2 1976**  
Under the  
Provision  
as amended  
registered under  
EPA Reg. No. **275-18**