

**dipel. 4L** 01 275-36 12 0483  
 WORM KILLER  
**EMULSIFIABLE SUSPENSION  
 BIOLOGICAL INSECTICIDE**

**Active Ingredient:**  
*Bacillus thuringiensis*, var. *kurstaki*, H-8001  
 International Units of Potency per mg  
 (32 billion International  
 Units per gallon) 1767  
**Inert Ingredients** 98.24%

**KEEP OUT OF REACH OF CHILDREN  
 CAUTION**

EPA Registration No. 275-36  
 EPA Est. No. 33762 1A 1

Use This Amount Per Gallon	For Smaller Spray Volumes
1.00	1 gal. water (100 gal)
1.00	1 gal. water (100 gal)
2.00	2 gal. water (200 gal)
4.00	4 gal. water (400 gal)

**DIRECTIONS FOR USE**

DIPPEL 4L 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 DIPPEL 4L to be affected. Always follow these directions:

- Treat when larvae are young (early instars) before the crop is extensively damaged.
- Larvae must be actively feeding on treated crop and plant parts.
- Thorough spray coverage is needed to provide a uniform deposit of DIPPEL 4L at the site of larval feeding. For some crops directed drop nozzle, by ground machine, is required.
- Under heavy pest population pressure, use the higher label rates, shorten the spray interval, and/or raise gallonage to improve spray coverage.
- Repeat application at 7-10 day intervals until most insects are dead. In 10-14 days depending on plant growth rate, insect activity and all other factors, and other factors. If attempting to control a pest with a crop spray, make the treatment at a time when the pest is most vulnerable. Do not spray when the pest is not feeding.
- A spreader-sticker which has been approved for use on growing and harvested crops should be added for hard to wet crops such as citrus groves to improve weather fastness of the spray deposits.

After a strong initial dose of DIPPEL 4L has been applied, water the crop and will die within several days. During this period, always check for other larval damage.

DIPPEL 4L may be applied in conventional or low volume spray systems with the use of water. It is not to be used in high volume spray systems. The use of water is not recommended with the use of water. With the use of water, the use of water is not recommended with the use of water. With the use of water, the use of water is not recommended with the use of water.

the balance of the water. Maintain the suspension while loading and spraying. Do not mix more DIPPEL 4L than can be used in a 72 hour period. **CAUTION:** Rinse and flush spray equipment thoroughly following each use.

**CAUTION**

DIPPEL 4L should not be used in combination with Comite Heavy (except celery), Difolatan, Captain (except seed) 400 or Dyrene.

**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.

**BENEFICIAL INSECTS**

Honey bees foraging treated areas are not harmed by DIPPEL 4L use. DIPPEL 4L does not interrupt the activity of beneficial and predatory arthropods in pest management programs.

**DIRECTIONS FOR USE**

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

**STORAGE AND DISPOSAL**

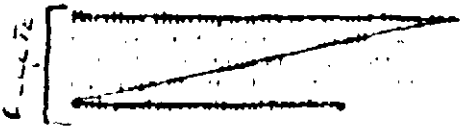
See label for details.

**Days to Harvest**

See label for details.

**Sites**

See label for details.



ACCEPTED  
 WITH COMMENTS  
 by EPA Label Dept

AUG 7 1984

Under the terms of the registration agreement, the registrant shall not be held liable for any damage or loss resulting from the use of this product.

**APPLICATION RATE**

Crop	Rate	Notes
Apple	1.00	Use directed drop nozzle
Blueberry	1.00	Use directed drop nozzle
Citrus	1.00	Use spreader-sticker
... (many other crops listed)	...	...

<b>Crop</b>	<b>Pest</b>	<b>Pints/Acre</b>
Rangeland	Bando Caterpillars	1.0
Use 1 to 2 qt. water per acre to spray for 1 through 40 x 40 ft.		
Use 1 to 2 qt. water per acre to spray for 1 through 40 x 40 ft.		

<b>Crop</b>	<b>Pest</b>	<b>Pints/Acre</b>
Corn	European Cornborer	1.0
	European Spruce Sawfly	1.0
	European Birch Sawfly	1.0

Use 1 to 2 qt. water per acre to spray for 1 through 40 x 40 ft. Use 1 to 2 qt. water per acre to spray for 1 through 40 x 40 ft. Use 1 to 2 qt. water per acre to spray for 1 through 40 x 40 ft.

Once beneficial insects are no longer active, apply a second spray. Once beneficial insects are no longer active, apply a second spray. Once beneficial insects are no longer active, apply a second spray.

DIPEL 4L may be tank mixed with insecticides, fungicides, herbicides, or other pesticides. DIPEL 4L may be tank mixed with insecticides, fungicides, herbicides, or other pesticides. DIPEL 4L may be tank mixed with insecticides, fungicides, herbicides, or other pesticides.

**DIPEL 4L for Trees and Shrubs**

<b>Crop</b>	<b>Pest</b>
Forest Shade	Gypsy Moth
Sugar Maple	Paper Birch
Trees and Shrubs	Red Spruce Sawfly
	Spruce Bark Beetle
	Tree Bark Beetle
	Western Bark Beetle
	Western Longhorn Beetle
	Western Longhorn Beetle
	Western Longhorn Beetle
	Western Longhorn Beetle

<b>Pints 100 Gallons (Ground Equipment)</b>	<b>Pints/Acre (Aerial Application)</b>
1.0	2.0
1.0	1.0
1.0	1.0
1.0	1.0
1.0	1.0
1.0	1.0
1.0	1.0
1.0	1.0
1.0	1.0
1.0	1.0
1.0	1.0

**Directions:** Apply to the pest on the foliage of the tree or shrub. Apply to the pest on the foliage of the tree or shrub. Apply to the pest on the foliage of the tree or shrub.

**Precautions:** Do not apply to trees or shrubs that are stressed or diseased. Do not apply to trees or shrubs that are stressed or diseased. Do not apply to trees or shrubs that are stressed or diseased.

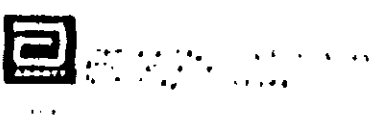
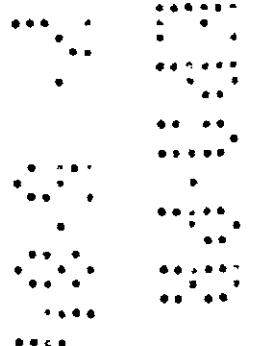
**CROP SEED**  
 Pest Rate  
 European Cornborer 1.0  
 European Spruce Sawfly 1.0  
 European Birch Sawfly 1.0

**BEST DOCUMENT AVAILABLE**

DIPEL 4L is compatible with common seed treatments including captan, methoxychlor, carboxin (Vitavax) and malathion. Fumigation has not been found to decrease the effectiveness of DIPEL 4L.

**NOTICE TO USER**  
 No warrant is made as to the fitness of any product for use in the treatment of any crop or animal or any other purpose. No warrant is made as to the fitness of any product for use in the treatment of any crop or animal or any other purpose. No warrant is made as to the fitness of any product for use in the treatment of any crop or animal or any other purpose.

**vitavax**





*Completed*

AUG 1 1984

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Mr. Walter Malesh  
Abbott Laboratories  
Chemical & Agricultural Products Division  
14th & Sheridan Road  
North Chicago, IL 60064

Dear Mr. Malesh:

Subject: Dipel(R) 4L, 8,000 Iu/Mg Emulsifiable  
Suspension  
EPA Registration No. 275-36  
Your Submission of June 28, 1984

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

Sincerely yours,

Timothy A. Gardner  
Product Manager (17)  
Insecticide-Rodenticide Branch  
Registration Division (TS-767)

Enclosure

RD/IRB:Nelson:DCR-45286:WANG-0086L:eg:Raven:479-2013:8/2/84:Del.8/20/84

BEST DOCUMENT AVAILABLE

CONCURRENCES							
SYMBOL ▶							
SURNAME ▶							
DATE ▶							