

JAN 16 1985  
 Under the...  
 Example...  
 275-36

Final Printed Labeling  
 December 5, 1984

**dipel 4L**  
 WORM KILLER

**EMULSIFIABLE SUSPENSION  
 BIOLOGICAL INSECTICIDE**

**Active Ingredient:**  
*Bacillus thuringiensis*, var. *kurstaki*, 8,400  
 International Units of Potency per mg  
 (32 billion International  
 Units per gallon) ..... 1.76%  
**Inert Ingredients** ..... 98.24%  
**KEEP OUT OF REACH OF CHILDREN  
 CAUTION**

E.P.A. Registration No. 275-36  
 E.P.A. Est. No. 33762-1A 1



**STORAGE AND DISPOSAL**  
 See container label

**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**  
 Honeybees foraging treated areas are not harmed by DIPEL 4L use.  
 DIPEL 4L does not interrupt the activities of beneficial and predatory arthropods in pest management programs.

- Larvae must be actively feeding on treated, exposed plant parts.
- Thorough spray coverage is needed to provide a uniform deposit of DIPEL 4L at the site of larval feeding. For some crops directed drop nozzles by ground machine are required.
- Under heavy pest population pressure, use the higher label rates, shorten the spray interval, and/or raise gallonage to improve spray coverage.
- Repeat applications at an interval sufficient to maintain control, usually 3 to 14 days depending on plant growth rate, moth activity, rainfall after treating, and other factors. 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.
- A spreader-sticker which has been approved for use on growing and harvested crops should be added for hard-to-wet crops such as cole crops, or to improve weather fastness of the spray deposits.

After eating a lethal dose of DIPEL 4L, larvae stop feeding within the hour and will die within several days. Dying larvae move slowly, discolor, then shrivel, blacken and die.

DIPEL 4L 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 crop size, weather, spray equipment, and local experience. Unless otherwise indicated, use at least 2 gallons of water by air, except in the far west, 5 to 10 gallons is the usual minimum. Add water to the spray or mixing tank at the level that provides maximum agitation. With the agitator running, add the DIPEL 4L. Continue agitation. Then add other spray materials (if any). Add the balance of the water. Maintain the suspension while loading and spraying. Do not mix more DIPEL 4L than can be used in a 72 hour period. **CAUTION:** Rinse and flush spray equipment thoroughly following each use.

**CAUTION**  
 DIPEL 4L should not be used in combination with Comite, Bravo (except celery), Difolatan, Captan (except seed) or Dyrone.

(ALL STATES EXCEPT CALIFORNIA)  
 The effects of combining DIPEL 4L with fungicides (other than benomyl, mancozeb, mancozeb, or captan) and miticides (other than chlordimeform) are unknown.

**FOR CALIFORNIA ONLY**

The effects of combining DIPEL 4L with insecticides, fungicides and other spray materials are unknown. Tank mixes should be avoided except where specific recommendations are made in the label for use in California.

**APPLICATION RATE**

Crop	Pest	Rate/Acre
Cole Crops*	Loopers	1 to 2
Cole Crops*	Imported Cabbageworm	1/2 to 1
Lettuces	Diamondback Moth	1/2 to 1 1/2
Sprouts*		

\*For all states except California  
 \*Do not apply by air to plants after transplant or other stress before 6 weeks in the field. Use more than 75 gallons of water per acre by ground and 10 gallons of water per acre by air.

Crop	Pest	Rate/Acre
Soybeans	Loopers	1 to 2
Peas*	Green Cloverworm	1/2 to 1
Peas*	Verdigris Caterpillar	1/2 to 1 1/2
Peas*	Podborer (Moth)	1 to 2
Peas*	Amygdalus**	2 to 4

\*DIPEL 4L suppresses early instar larvae of Podborer and Army worms when populations are light to moderate.  
 \*\*For all states except California.

Crop	Pest	Rate/Acre
Tobacco*	Tobacco Budworm	1
Tobacco*	Mananassa	1/2 to 1
Tobacco*	Loopers	1

\*For all states except California.

Crop	Pest	Rate/Acre
Tomatoes	Loopers	1 to 2
Tomatoes	Tomato Pinworm*	2
Tomatoes	Unsprayed Caterpillar	2
Tomatoes	Saltmarsh Caterpillar	1 to 2
Tomatoes	Mananassa	1/2 to 1
Tomatoes	Amygdalus**	2 to 4

\*Apply weekly in a prevention program.  
 \*\*DIPEL 4L may be used to suppress small *Amygdalus* (1st and 2nd instar) when populations are light and full coverage ground sprays are applied.

DIPEL 4L may be tank mixed with benzoyl maneb or mancozeb for application on tomatoes. Observe all label precautions for all pest and use.

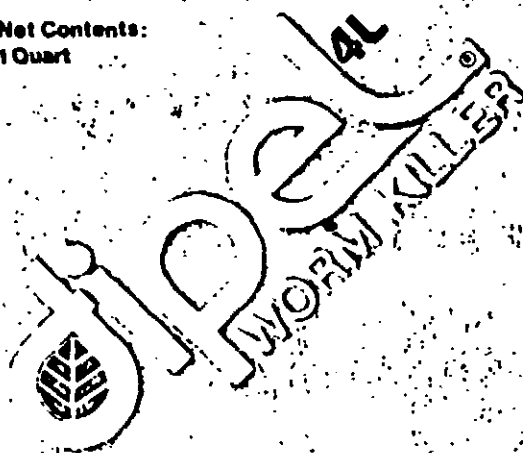
Crop	Pest	Rate/Acre
Artichokes, Parsnips, Parsnips	Loopers	1 to 2
Small Grains and Forage Crops	Artichoke Caterpillar	1/2 to 1
Small Grains and Forage Crops	European Sprayer	1/2 to 1
Small Grains and Forage Crops	Wheat Shearer	1/2 to 1

Raspberries  
 Use 1 to 2 gal. water per acre against 1st and 2nd instar larvae.

Crop	Pest	Rate/Acre
Cotton	Tobacco Budworm*	1/2 to 2
Cotton	Coma Budworm*	1/2 to 2
Cotton	Loopers**	1 to 2

\*Use to suppress light to moderate populations of newly hatched worms in pest management conditions. Use up to one treatment when beneficial insects are active or building. Repeat treatments at 4 to 5 day intervals as long as necessary. Do not use on susceptible 1st or 2nd instar larvae. Do not use on 3rd or 4th instar larvae. Do not use on 5th or 6th instar larvae. Do not use on 7th or 8th instar larvae. Do not use on 9th or 10th instar larvae. Do not use on 11th or 12th instar larvae. Do not use on 13th or 14th instar larvae. Do not use on 15th or 16th instar larvae. Do not use on 17th or 18th instar larvae. Do not use on 19th or 20th instar larvae. Do not use on 21st or 22nd instar larvae. Do not use on 23rd or 24th instar larvae. Do not use on 25th or 26th instar larvae. Do not use on 27th or 28th instar larvae. Do not use on 29th or 30th instar larvae. Do not use on 31st or 32nd instar larvae. Do not use on 33rd or 34th instar larvae. Do not use on 35th or 36th instar larvae. Do not use on 37th or 38th instar larvae. Do not use on 39th or 40th instar larvae. Do not use on 41st or 42nd instar larvae. Do not use on 43rd or 44th instar larvae. Do not use on 45th or 46th instar larvae. Do not use on 47th or 48th instar larvae. Do not use on 49th or 50th instar larvae. Do not use on 51st or 52nd instar larvae. Do not use on 53rd or 54th instar larvae. Do not use on 55th or 56th instar larvae. Do not use on 57th or 58th instar larvae. Do not use on 59th or 60th instar larvae. Do not use on 61st or 62nd instar larvae. Do not use on 63rd or 64th instar larvae. Do not use on 65th or 66th instar larvae. Do not use on 67th or 68th instar larvae. Do not use on 69th or 70th instar larvae. Do not use on 71st or 72nd instar larvae. Do not use on 73rd or 74th instar larvae. Do not use on 75th or 76th instar larvae. Do not use on 77th or 78th instar larvae. Do not use on 79th or 80th instar larvae. Do not use on 81st or 82nd instar larvae. Do not use on 83rd or 84th instar larvae. Do not use on 85th or 86th instar larvae. Do not use on 87th or 88th instar larvae. Do not use on 89th or 90th instar larvae. Do not use on 91st or 92nd instar larvae. Do not use on 93rd or 94th instar larvae. Do not use on 95th or 96th instar larvae. Do not use on 97th or 98th instar larvae. Do not use on 99th or 100th instar larvae.

Net Contents:  
1 Quart



**PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS (and Domestic Animals)**

**CAUTION**  
Avc direct contact with skin or eyes or clothing. In case of contact immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

**ENVIRONMENTAL HAZARDS**  
Keep out of lakes, ponds or streams. Do not contaminate water by cleaning of equipment or disposal of wastes.

**Beneficial Insects**  
Honeybees, fire, and other bees are not harmed by Dipal use.  
Do not use Dipal in areas where the activities of honeybees and other beneficial insects are essential to agriculture.

**Directions for Use**  
Read and follow directions for use on product label or on container and on this labeling.  
Refer to Package Enclosure for crops, rates and general directions.

Lot No. 5138  
EPA Registration No. 175-38  
EPA Est. No. 33767-1A-1

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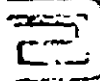
**EMULSIFIABLE SUSPENSION BIOLOGICAL INSECTICIDE**

Active Ingredient:  
**Bacillus thuringiensis**, var. **kurstaki**, 8,800 International Units of Potency per mg (32 billion International Units per gallon) ..... 1.76%  
Inert Ingredients ..... 98.24%

**KEEP OUT OF REACH OF CHILDREN CAUTION**

**STORAGE AND DISPOSAL**  
Do not contaminate water, food or feed by storage or disposal.  
**STORAGE** If egg containers tightly closed when not in use. At temperatures 100° F and greater than 100° F Dipal should be stored under cover.  
**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** Triple rinse to prevent contamination and then proceed as follows: If a secondary container is to be used, dipal should be stored by some and tag of identification, by burning if burned, stay out of water.

**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.

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

**ACCEPTED**  
JAN 16 1985  
EPA Reg. No. 175-38

WORM  
KILLER

**ENVIRONMENTAL HAZARDS**

Keep out of lakes, ponds or streams. Do not contaminate water by cleaning of equipment or disposal of wastes.

**Beneficial Insects**

Honeybees foraging treated areas are not harmed by Dipel 4L use. Dipel 4L does not interrupt the activities of beneficial and predaceous 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. Refer to Package Enclosure for crops, rates and general directions.

**STORAGE AND DISPOSAL**

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

**STORAGE** Keep containers tightly closed when not in use. At temperatures less than 0°F and greater than 100°F.

Dipel 4L should be stored under cover. 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.

**CONTAINER DISPOSAL** Triple rinse for equivalent. Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

**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.

Lot No

01-3148-2/85



List No 5138 55  
EPA Registration No 275-36  
EPA Est No 33762-IA-1

NET CONTENTS: 55 GALLONS

**DIPEL 4L WORM KILLER**

REC'D

JAN 16 1985

275-36

EMULSIFIABLE SUSPENSION  
BIOLOGICAL INSECTICIDE

Active Ingredient

**Bacillus thuringiensis, var kurstaki**, 8,800 International Units of Potency per mg (32 billion International Units per gallon) ..... 176%  
Inert Ingredients ..... 98.24%

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