

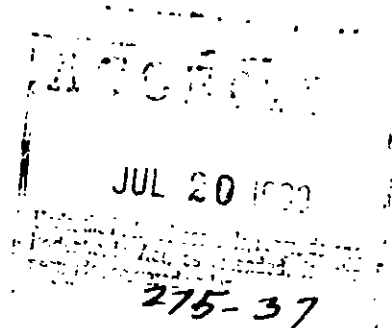
**SUPPLEMENTAL LABELING
PAGE 1**

**DIPEL 2X
BIOLOGICAL INSECTICIDE**

**WETTABLE POWDER
BIOLOGICAL INSECTICIDE**

Active Ingredient:

<u>Bacillus thuringiensis, var. kurstaki,</u> 32,000 International Units of Potency per mg. (14.52 billion International Units per pound).	6.4%
Inert Ingredients	93.6%



KEEP OUT OF REACH OF CHILDREN

C A U T I O N

EPA Registrations No. 275-37
EPA Est. No. 33762-IA-1

STORAGE AND DISPOSAL

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

BENEFICIAL INSECTS

Honeybees foraging treated areas are not harmed by Dipel 2X use.

Dipel 2X does not interrupt the activities of beneficial and predacious arthropods in integrated pest management programs.

DIRECTIONS FOR USE

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.

Days to harvest: There are no restrictions on applying DIPEL 2X up to the time of harvest.

Sites: DIPEL 2X may be used for any labeled pest in both field and greenhouse uses.

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DIRECTIONS FOR USE (Continued)

DIPEL 2X 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 2X 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, exposed plant parts.
- Thorough spray coverage is needed to provide a uniform deposit of DIPEL 2X 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.
- Dipel 2X is a non-restricted use pesticide and does not require a restricted use permit for purchase and use.
- Dipel 2X may be tank mixed with other labeled insecticides to enhance control.
- Before tank mixing Dipel 2x with other labeled products, check for tank-mix compatibility.

DIRECTIONS FOR USE (Continued)

After eating a lethal dose of DIPEL 2X, larvae stop feeding within the hour, and will die within several days. Dying larvae move slowly, discolor, then shrivel, blacken and die.

DIPEL 2X may be applied in conventional ground or aerial equipment with quantities of water sufficient to provide through 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 per acre by air; except in the Western U.S., where 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, slowly sprinkle in the DIPEL 2X. Continue agitation. Then add other spray materials (if any). Add the balance of the water and agitate until mixed. Maintain the suspension while loading and spraying. Do not mix more DIPEL 2X than can be used in a 12-hour period.

For Smaller Spray Volumes:

If Rate is

Use This Amount
Per Gallon

1/4 lb./acre or 100 gals.
1/2 lb./acre or 100 gals.
1 lb./acre or 100 gals.
2 lb./acre or 100 gals.

1/2 tsp.
1 tsp.
2 tsps.
4 tsps.

APPLICATION CONSIDERATIONS: DIPEL IS EXEMPT FROM THE REQUIREMENTS OF A TOLERANCE ON ALL RAW AGRICULTURAL COMMODITIES AND HAS NO PLANTBACK OR RENTRY RESTRICTIONS.

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**SUPPLEMENTAL LABELING
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APPLICATION RATE

Crop Group (Typical Crops)	Pests	Pounds/Acre
Root and Tuber such as Carrots, Potatoes, Beets and Sugarbeets Bulb such as Onions (green and bulb) and Garlic Leafy and Cole Crops such as Lettuce (head and leaf), Kale, Celery, Spinach, Broccoli, Cabbage, Mustard Greens, Brussel Sprouts, Cauliflower, Collards, Chinese Cabbage, Endive Kohlrabi and Parsley	Loopers	1/2 - 1
	Omnivorous Leafroller	1/2 - 1
	Hornworms	1/2 - 1
	Imported Cabbageworm	1/2 - 1
	Diamondback Moth	1/2 - 1
	Green Cloverworm	1/2 - 1
	Webworm	1/2 - 1
	Saltmarsh Caterpillar	1/2 - 1
	Armyworms*	1/2 - 2
	Cutworms	1/2 - 1
Fruiting Vegetables such as Tomatoes, Peppers and Eggplant	Loopers	1/2 - 1
	Hornworm	1/2 - 1
	Tomato Fruitworm	1/2 - 1
	Varigated Cutworm	1/2 - 1
	Saltmarsh Caterpillar	1/2 - 1
	Armyworms*	1/2 - 2
Cucurbit Vegetables such as Melons, Cucumbers and Squash	Loopers	1/2 - 1
	Melonworms	1/2 - 1
	Rindworm complex	1/2 - 1
	Armyworms*	1/2 - 2

*DIPEL 2X may be used to control small armyworms (1st and 2nd instar) when populations are light and full coverage sprays are applied. Repeat treatment as necessary. If mature worms or heavy populations are present a contact insecticide should be added to enhance control.

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**SUPPLEMENTAL LABELING
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APPLICATION RATE (Continued)

Crop Group (Typical Crops)	Pests	Pounds/Acre
Legume Vegetables such as Beans, Peas, Lentils and Soybeans.	Loopers	1/2 - 1
	Soybean Looper	1/2 - 1
	Green Cloverworm	1/2 - 1
	Velvetbean Caterpillar	1/2 - 1
	Armyworms*	1/2 - 2
	Podworms*	1/2 - 1
OTHER CROPS:		
Tobacco	Tobacco Budworm	1/2 - 1
	Hornworms	1/4 - 1/2
	Loopers	1/2 - 1
<p>DIPEL 2X may be tank mixed with sucker control products at recommended rates. Follow the application directions on the sucker control labels. Observe all label precautions for all products used.</p>		
Safflower	Loopers	1/2 - 1
	Saltmarsh Caterpillar	1/2 - 1
	Armyworms*	1/2 - 2
Sunflowers	Loopers	1/2 - 1
	Head Moth	1/2 - 1
Peanuts	Loopers	1/2 - 1
	Velvetbean Caterpillar	1/2 - 1
	Green Cloverworm	1/2 - 1
	Podworms*	1/2 - 1

*DIPEL 2X may be used to control small armyworms and/or podworms (1st and 2nd instar) when populations are light and full coverage sprays are applied. Repeat treatment as necessary. If mature worms or heavy populations are present a contact insecticide should be added to enhance control.

SUPPLEMENTAL LABELING
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APPLICATION RATE (Continued)

OTHER CROPS: (Continued)

<u>Crop</u>	<u>Pest</u>	<u>Pound/Acre</u>
Alfalfa (Hay and Seed) Hay and Other Forage Crops	Loopers	1/2 - 1
	Alfalfa Caterpillar	1/2 - 1
	European Skipper (Essex Skipper)	1/2 - 1
	Armyworms*	1/2 - 2
Cotton	Tobacco Budworm**	1/2 - 2
	Cotton Bollworm**	1/2 - 2
	Loopers	1/2 - 1
	Saltmarsh Caterpillar	1/2 - 1
	Armyworms*	1/2 - 2

**Use to control light to moderate populations of newly hatched worms in integrated pest management conditions. Repeat treatments at 4 to 5-day intervals as long as necessary and results are acceptable. Use in combination with ovicidal rates of labeled Heliothis ovicides.

Avocado	Amorbia Moth	1/2 - 2
	Omnivorous Leafroller	1/2 - 2
	Omnivorous Looper	1/2 - 2
	Orange Tortrix	1/2 - 2
	Spanworm	1/2 - 2
Malanga	Saltmarsh Caterpillar	1/2 - 1
	Armyworms*	1/2 - 2
Water Cress	Loopers	1/2 - 1
	Armyworms*	1/2 - 2

*DIPEL 2X may be used to control small armyworms (1st and 2nd instar) when populations are light and full coverage sprays are applied. Repeat treatment as necessary. If mature worms or heavy populations are present a contact insecticide should be added to enhance control.

APPLICATION RATE (Continued)

OTHER CROPS: (Continued)

<u>Crop</u>	<u>Pest</u>	<u>Pound/Acre</u>
Kiwi Fruit	Omnivorous Leafroller	1/2 - 2
Hops	Loopers	1/2 - 1
	Armyworms*	1/2 - 2
Bananas	Banana Skipper	1/2 - 1
Asparagus	Armyworms*	1/2 - 2
Corn (Sweet and Field and Sorghum)	Armyworms*	1/2 - 2
	Headworms	1/2 - 1
Rape	Looper	1 1/2 - 2
	Armyworms*	1/2 - 2
	Heliothis	1 1/2 - 2
Herbs, Spices and Mints such as Basil, Chives, Dill, Leeks and Peppermint	Looper	1/2 - 1
	Saltmarsh Caterpillar	1/2 - 1
	Armyworms*	1/2 - 2
<p>*DIPEL 2X may be used to control small armyworms (1st and 2nd instar) when populations are light and full coverage sprays are applied. Repeat treatments as necessary. If mature worms or heavy populations are present a contact insecticide should be added to enhance control.</p>		
Pineapple	Gummosos-Batrachedra comosae (Hodges) Thecla-Thecla basilides (Geyr)	1/4 - 1/2
Turf	Sod Webworm	1 - 2

APPLICATION RATE (Continued)

OTHER CROPS: (Continued)

<u>Crop</u>	<u>Pest</u>	<u>lbs./100 Gals.</u>
Flowers, Bedding Plants and Ornamentals (Ground Only)	Loopers	1/4 - 1/2
	Tobacco Budworm	1/4 - 1/2
	Omnivorous Looper	1/4 - 1/2
	Omnivorous Leafroller	1/4 - 1/2
	Diamondback Moth	1/4 - 1/2
	Armyworms*	1/2 - 2
	Ello Moth (Hornworm)	1/4 - 1/2
	Io Moth	1/4 - 1/2
	Oleander Moth	1/4 - 1/2
	Azalea Caterpillar	1/4 - 1/2
Greenhouse/Shadehouse and Outdoor Nursery Crops such as Leafy, Herbs, Brassica and Fruiting groups	Loopers	1/2 - 1
	Heliothis	1/2 - 1

*DIPEL 2X may be used to control small armyworms (1st and 2nd instar) when populations are light and full coverage sprays are applied. Repeat treatment as necessary. If mature worms or heavy populations are present a contact insecticide should be added to enhance control.