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MAY 08 1990

Dr. Ralph J. Hodosh
Manager, Labeling and Product Safety
CAPD Regulatory Affairs (D928)
Abbott Laboratories
1401 Sheridan Road
North Chicago, IL 60064-4000

Dear Dr. Hodosh

Subject: Dipel 2X Supplemental Labelg
EPA Reg. No. 275-37

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided that you move "Keep Out of Reach of Children" above the signal word Caution at the next printing. A stamped copy is enclosed for your records.

Sincerely yours,



Phil Sutton
Product Manager (17)
Insecticide-Rodenticide Branch
Registration Division (N7505C)

51205;I/WP50;Mendelsohn:C.Disk;KENCO:5/3/90;dg:aw:vo;dd:dg

CONCURRENCES

SYMBOL	SURNAME	DATE					

Active Ingredient:

Bacillus thuringiensis, var. kurstaki,

32,000 International Units of Potency per mg

(14.52 billion International Units per pound) . . . 6.4%

Inert Ingredients 93.6%

TOTAL 100.0%

EPA Registration No. 275-37

EPA Est. No. 33762-IA-1

ACCEPTED
with COMMENTS
in EPA Letter Dated

CAUTION

Keep Out of Reach of Children

9 30
This pesticide is a bio-herbicide.
It is used under the Federal Insecticide, Fungicide, and Rodenticide Act as
defined in Section 2 of that Act for the pest-control
registered under EPA Reg. No.

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

SUPPLEMENTAL LABELING

Precautionary Statements Supersede Earlier Labeling

Not for use in California
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water. If there is any irritation in eyes after washing, get medical attention.

When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers.

Written warnings must include the following information:

"Area treated with DiPel 2X on (date of application). Do not enter without appropriate protective clothing until sprays have dried. In case of accidental exposure, wash with plenty of water. If there is any irritation in eyes after washing, get medical attention."

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.

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

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 tsps.

2 lb./acre or 100 gals

4 tsps

APPLICATION RATE

Crop Group	Pest	Pounds/Acre
Alfalfa (Hay and Seed), Hay and Other Forage Crops	Alfalfa Caterpillar	1/2 - 1
	Armyworms*	1/2 - 2
	European Skipper (Essex Skipper)	1/2 - 1
	Loopers	1/2 - 1
Berries and Small Fruit such as Blackberries, Cranberries, Grapes and Strawberries	Achema Sphinx Moth (Hornworm)	1/2 - 1
	Armyworms*	1/2 - 2
	Grape Berry Moth	1/2 - 1
	Grape Leafroller	1/2 - 1
	Grapeleaf Skeletonizer (ground only)	1/2 - 1
	Loopers	1/2 - 1
	Oblique Banded Leafroller	1/2 - 1
	Omnivorous Leafroller (ground only)	1/2 - 1
	Orange Tortrix	1/2 - 1
	Saltmarsh Caterpillar (ground only)	1/2 - 1
Tobacco Budworm	1/2 - 2	
Bulb such as Garlic and Onions (green and bulb)	Armyworms*	1/2 - 2
	Cutworms	1/2 - 1
	Diamondback Moth	1/2 - 1
	Green Cloverworm	1/2 - 1
	Hornworms	1/2 - 1
	Imported Cabbageworm	1/2 - 1
	Loopers	1/2 - 1
	Omnivorous Leafroller	1/2 - 1
	Saltmarsh Caterpillar	1/2 - 1
	Webworm	1/2 - 1
Cucurbit Vegetables such as Cucumbers, Melons and Squash	Armyworms*	1/2 - 2
	Loopers	1/2 - 1
	Melonworms	1/2 - 1
	Flintworm complex	1/2 - 1
Flowers, Bedding Plants and Ornamentals (Ground Only)	Armyworms*	1/2 - 2
	Azalea Caterpillar	1/4 - 1/2
	Diamondback Moth	1/4 - 1/2
	Elio Moth (Hornworm)	1/4 - 1/2
	Io Moth	1/4 - 1/2
	Loopers	1/4 - 1/2
	Oleander Moth	1/4 - 1/2
	Omnivorous Leafroller	1/4 - 1/2
	Omnivorous Looper	1/4 - 1/2
	Tobacco Budworm	1/4 - 1/2

Crop Group	Pest	Pounds/Acre	
Fruiting Vegetables such as Eggplant, Peppers and Tomatoes	Armyworms*	1/2 - 2	
	Hornworm	1/2 - 1	
	Loopers	1/2 - 1	
	Saltmarsh Caterpillar	1/2 - 1	
	Tomato Fruitworm	1/2 - 1	
	Variegated Cutworm	1/2 - 1	
Greenhouse/Shade Trees and Outdoor Nursery Crops such as Brassica, Fruiting Groups, Herbs and Leafy	Heliothis	1/2 - 2	
	Loopers	1/2 - 1	
Herbs, Spices and Mints such as Basil, Chives, Dill, Leeks and Peppermint	Armyworms*	1/2 - 2	
	Looper	1/2 - 1	
Leafy and Cole Crops such as Broccoli, Brussel Sprouts, Cabbage, Cauliflower, Celery, Chinese Cabbage, Collards, Endive, Kale, Kohlrabi, Lettuce (head and leaf), Mustard Greens, Parsley and Spinach	Saltmarsh Caterpillar	1/2 - 1	
	Armyworms*	1/2 - 2	
	Cutworms	1/2 - 1	
	Diamondback Moth	1/2 - 1	
	Green Cloverworm	1/2 - 1	
	Hornworms	1/2 - 1	
	Imported Cabbageworm	1/2 - 1	
	Loopers	1/2 - 1	
	Omnivorous Leafroller	1/2 - 1	
	Saltmarsh Caterpillar	1/2 - 1	
Webworm	1/2 - 1		
Legume Vegetables such as Beans, Lentils, Fava and Soybeans	Armyworms*	1/2 - 2	
	Green Cloverworm	1/2 - 1	
	Loopers	1/2 - 1	
	Podworms*	1/2 - 1	
	Soybean Looper	1/2 - 1	
	Velvetbean Caterpillar	1/2 - 1	
Pome Fruit such as Apples and Pears	Cankerworms	1/2 - 2	
	Codling Moth	1/2 - 2	
	Pomegranates	Cutworms	1/2 - 2
	Stone Fruit such as Cherries, Nectarines, Peaches, Plums and Prunes	Fall Webworm	1/2 - 2
	Tree Nuts such as Almonds, Filberts, Pecans and Walnuts	Filbert Leafroller	1/2 - 2
	Fruitree Leafroller	1/2 - 2	
	Gypsy Moth	1/2 - 2	
	Obliquebanded Leafroller	1/2 - 2	
	Omnivorous Leafroller	1/2 - 2	
	Redbanded Leafroller	1/2 - 2	
Redhumped Caterpillar	1/2 - 2		
Tent Caterpillars	1/2 - 2		
Tufted Apple Budmoth	1/2 - 2		
Variegated Leafroller	1/2 - 2		
Walnut Caterpillar	1/2 - 2		
Root and Tuber such as Beets, Carrots, Potatoes and Sugarbeets	Armyworms*	1/2 - 2	
	Cutworms	1/2 - 1	
	Diamondback Moth	1/2 - 1	
	Green Cloverworm	1/2 - 1	
	Hornworms	1/2 - 1	
	Imported Cabbageworm	1/2 - 1	
	Loopers	1/2 - 1	
	Omnivorous Leafroller	1/2 - 1	
	Saltmarsh Caterpillar	1/2 - 1	
Webworm	1/2 - 1		
Small Grains	Loopers	1/2 - 1	
	Armyworms	1/2 - 2	
Tropical Fruits	Hornworm	1/2 - 2	
	Leafrollers	1/2 - 2	
	Loopers	1/2 - 2	
	Omnivorous Looper	1/2 - 2	

Crop	Pest	Pounds/Acre
Asparagus	Armyworms*	1/2 - 2
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

Crop	Pest	Pounds/Acre
Bananas	Banana Stripper	1/2 - 1
Citrus	Citrus Cutworm***	1/2 - 2
	Fruitree Leafroller	1/2 - 2
	Orangedog	1/2 - 1
Corn (Field, Sorghum and Sweet)	Armyworms*	1/2 - 2
	Headworms	1/2 - 1
Cotton	Armyworms*	1/2 - 2
	Cotton Bollworm**	1/2 - 2
	Loopers	1/2 - 1
	Saltmarsh Caterpillar	1/2 - 1
	Tobacco Budworm**	1/2 - 2
Hope	Armyworms*	1/2 - 2
	Loopers	1/2 - 1
Kiwi Fruit	Omnivorous Leafroller	1/2 - 2
Malanga	Armyworms*	1/2 - 2
	Saltmarsh Caterpillar	1/2 - 1
Peanuts	Green Cloverworm	1/2 - 1
	Loopers	1/2 - 1
	Podworms*	1/2 - 1
	Velvetbean Caterpillar	1/2 - 1
Pineapple	Gummosis-Batrachedra comosae (Hodges)	1/2 - 1/2
	Thecia-Thecia basilides (Geyr)	
Rape	Armyworms*	1/2 - 2
	Heliothis	1/2 - 2
	Looper	1/2 - 1
Safflower	Armyworms*	1/2 - 2
	Loopers	1/2 - 1
	Saltmarsh Caterpillar	1/2 - 1
Sunflowers	Head Moth	1/2 - 1
	Loopers	1/2 - 1
Tobacco	Hornworms	1/2 - 1/2
	Loopers	1/2 - 1
	Tobacco Budworm	1/2 - 1
Turf	Sod Webworm	1 - 2
Water Cress	Armyworms*	1/2 - 2
	Diamondback Moth	1/2 - 1
	Loopers	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 used to enhance control.

** 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.

*** Apply to light to moderate populations of newly-hatched worms.

NOTICE TO USER

Seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning the 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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