

14-SEP-2001

Biological Insecticide
DiPel* WP
Wettable Powder

COMMERCIAL

GUARANTEE:

Bacillus thuringiensis, subspecies, *kurstaki* strain HD-1
(16 Billion International Units per kg).

REGISTRATION NO. 11252 PEST CONTROL PRODUCTS ACT

READ THE LABEL AND ATTACHED BROCHURE BEFORE USING
KEEP OUT OF REACH OF CHILDREN
POTENTIAL SENSITIZER

Net Contents: 10 kg.

Registrant:
VALENT BioSciences CORPORATION
870 Technology Way, Suite 100
Libertyville, IL 60048
U.S.A.

Canadian Agent:
Valent BioSciences Canada, Ltd.
40 King Street West, Suite 2100
Toronto, Ontario M5H 3C2
CANADA

Lot No.

Date of Manufacture

PRECAUTIONS:

KEEP OUT OF REACH OF CHILDREN.

May cause sensitization. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

FIRST AID:

If in eyes: flush with plenty of water.

If on skin: wash skin with plenty of soap and water. Obtain medical attention if irritation occurs and persists.

Take container, label, or product name and Pest Control Product Registration Number with you when seeking medical attention.

ENVIRONMENTAL HAZARDS

DO NOT SPRAY SUSPENSION OR RINSE EMPTY CONTAINERS INTO WATERWAYS.

STORAGE

Store at temperatures between 0EC and 25EC. Store container upright and keep tightly closed when not in use. This product should be used within 24 months of the date of manufacture.

DISPOSAL

Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. Make the empty, rinsed container unsuitable for further use.

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For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

NOTICE TO USER

This control product is to be used only in accordance with the directions on this label. It is an offense under the Pest Control Products Act to use a control product under unsafe conditions.

NOTICE TO BUYER

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APPLICATION RATE

Thorough coverage is essential for good control

g/ha

APPLES

Leafrollers	2250 to 3350
(Fruittree, European, Oblique-banded, three-lined)	
Winter Moth	560

Apply in 600-800 L/ha at pink state and, if populations are heavy, at petal fall using an airblast orchard sprayer.

Weekly applications may be necessary if egg hatch is asynchronous. Best results are obtained if applications are made in the evening or on a cloudy day.

BROCCOLI

Cabbage Looper	550 to 1100
Diamondback	110 to 275
Imported Cabbageworm	110 to 275

CAULIFLOWER

Cabbage Looper	550 to 1100
Imported Cabbageworm	110 to 275

COLLARDS

Cabbage Looper	550 to 1100
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CRANBERRIES

Green and Brown Spanworm	550 to 1100
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KALE

Cabbage Looper	550 to 1100
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LETTUCE

Cabbage Looper	550 to 1100
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MUSTARD GREENS

Cabbage Looper	550 to 1100
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PARSLEY

Cabbage Looper	550
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PEAR

Leafrollers* (Fruittree, European, Oblique-banded, Three-lined)	2250 to 3350
Fruitworm**	2250 to 3350

*Apply in 600-800 L/ha at pink stage and, if populations are heavy, at petal fall using an airblast orchard sprayer.

Weekly applications may be necessary if egg hatch is asynchronous. Best results are obtained if applications are made in the evening or on a cloudy day.

**Apply in 2000 L/ha at pink stage to petal drop in evening or on cloudy days using an airblast orchard sprayer.

RED RASPBERRIES

Early Season Oblique-banded Leafroller*	1100 to 2250
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*Apply with ground equipment at prebloom and bloom

SPINACH

Cabbage Looper	550 to 1100
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STONE FRUIT - Apricot, Cherry, Peach, Plum/Prune

Leafrollers* (Fruittree, European, Oblique-banded, Three-lined)	2250 to 3350
Fruitworm**	2250 to 3350

*Apply in 600-800 L/ha at pink stage and, if populations are heavy, at petal fall using an airblast orchard sprayer.

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asynchronous Best results are obtained if applications are made in the evening or on a cloudy day.

**Apply in 2000 L/ha at pink stage to petal drop in evening or on cloudy days using an airblast orchard sprayer.

SUNFLOWERS

Sunflower Moth 625 to 1250
Applied aerially, mix the applicable amount (grams) per minimum of 20 litres of water. Apply when 20-50% heads in bloom. Thorough coverage of larval feeding sites within flowers is necessary for adequate control. Apply when provincial authorities recommend treatment based on pheromone trap counts. A second application may be required if trap counts are high.

TIMOTHY

Essex (European) Skipper 275
to
550

TURNIP GREEN

Cabbage Looper 550 to 1100

TOBACCO

Hornworm 110 to 275

TOMATOES

Cabbage Looper 550 TO 1100

Tomato Fruitworm* 1100

Tomato Hornworm 275 to 550

*Applied every 5 to 7 days.

ORNAMENTAL AND SHADE TREES

g per 400L

~~Hydraulic Sprayer*~~

Spruce Budworm (Spruce) 250 to 500

Gypsy Moth 250 to 500

Bagworm 250 to 500

Spring & Fall Cankerworms 250

Fall Webworm

250

Elm Spanworm 500

Tent Caterpillar 125 to 250

*For Mist Blowers, mix the applicable amount (grams) per 40 litres of water.

FOR GREENHOUSE USE

ROSES

Omnivorous Leafroller* 500g/400L

CHRYSANTHEMUMS

Cabbage Looper* 250 to 500g/400L

TOMATOES

Cabbage Looper 150-300g/250L/4000 Sq. Metres

PEPPERS

Cabbage Looper 150-300g/250L/4000 Sq. Metres

*Apply to upper and lower portions of the leaves to run off. Repeat applications will be necessary if a new hatch occurs.

DIRECTIONS FOR USE

DiPel Wettable Powder is a biological insecticide and is intended for use against leaf-chewing larvae (caterpillars) of certain lepidopterous species. Studies to date indicate that, if applied when pests are first noticed and at intervals of one week thereafter, excellent control is achieved. Suspend the required amount of DiPel (as determined from the table) in the spray tank; agitate thoroughly. Use recommended amounts in a minimum of 136 to 227 litres of water per hectare for vegetable crops when DiPel is applied by ground spray equipment. Fruit crops may require up to 2000 litres per hectare to get adequate coverage. Do not allow dilute spray to stand in tank for more than 12 hours.

Apply DiPel at first sign of infestation and repeat at 7 to 10 day intervals when needed to maintain control. Good coverage of all leaves is essential since the insect must ingest the DiPel for insecticidal action. Within a few hours of application, the larvae stop all further eating and death occurs within 1 to 3 days.

A spreader sticker such as TRITON*B-1956 should be combined with DiPel to aid in thorough coverage of all the foliage. One application will usually be enough to control hornworms on tobacco.

**HOW TO TANK MIX DIPEL
(Equipped with mechanical agitators)**

1 Slowly sprinkle DiPel into a partially filled tank	2 Wait two minutes	3 Start agitator operating vigorously	4 Maintain agitation while adding remaining water to the tank
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DiPel* WP
Wettable Powder

COMMERCIAL

GUARANTEE:

Bacillus thuringiensis, subspecies, *kurstaki* strain HD-1
16,000 International Units of Potency per mg
(16 Billion International Units per kg).

REGISTRATION NO. 11 252 PEST CONTROL PRODUCTS ACT

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