

DiPel® 2X DF

DiPel® 2X DF, a leading biological insecticide in the world, provides growers with a high potency resistance management tool for proven control of Lepidoptera pests in conventional and organic cropping systems.

BENEFITS

- Most potent Bt insecticide on the market and unique mode of action making it an excellent tool for managing resistance
- Immediately deters insects from feeding – death occurs within 1-3 days
- Dry flowable formulation is convenient and easy to handle and highly tank mixable
- Not harmful to bees or beneficial insects making it a great tool for spring feeding caterpillars
- No REI and safe for humans

REGISTERED CROPS

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|------------------------------------|--------------------------|------------------------------|
| • Apple | • Corn (sweet and field) | • Ornamental and shade trees |
| • Asian radish | • Cranberry | • Parsley |
| • Berries and small fruit | • Ginseng | • Pear |
| • Blueberry (highbush and lowbush) | • Grape | • Potato |
| • Bok choy | • Greenhouse herbs | • Raspberry |
| • Broccoli | • Greenhouse ornamentals | • Sea buckthorn |
| • Cabbage | • Greenhouse vegetables | • Spinach |
| • Cauliflower | • Herbs and spices | • Stone fruit |
| • Chinese broccoli | • Kale | • Sunflower |
| • Chinese cabbage | • Lettuce | • Timothy |
| • Chokecherry | • Mustard greens | • Tobacco |
| • Collards | • Nut crops | • Turnip greens |

For a complete list of all crops registered and what is included for each crop group refer to the label

GENERAL USAGE INFORMATION

- OMRI-certified for use in organic production
- Apply when insect pests are small (egg hatch to early instars) before crop damage occurs
- Apply in sufficient water volume for thorough crop coverage
- Repeat at an interval sufficient to maintain control, usually 3-14 days
- Use with a water pH 7 or lower
- Use an adjuvant for hard to wet foliage (such as cabbage or broccoli)

TECHNICAL INFORMATION

CHEMICAL CLASS

- > Group 11

ACTIVE INGREDIENTS

- > *Bacillus thuringiensis, var. kurstaki strain ABTS-351 (57%)*

PACKAGING

- > 24 x 0.5 kg case
- > 5 kg bag

RAINFAST

- > Avoid application when heavy rainfall is in the forecast

PCP

- > 26508

BIOLOGICAL INSECTICIDE

APPROVED FOR ORGANIC PRODUCTION

SPECIFIC CROP USAGE INFORMATION

INSECTS CONTROLLED	RATE	APPLICATION INFORMATION
APPLE, PEAR		
Leafrollers* (fruitree, European, oblique-banded, three-lined)	1125-1675 g/ha (455-678 g/ac.)	*Apply in 600-800 L/ha at pink stage and, if populations are heavy, at petal fall using an air-blast 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 **For use in combination with Ripcord or Cymbush See the respective labels for specific instructions Follow the most restrictive label
Winter moth** (not registered for pears)	280 g/ha (113 g/ac.)	
ASIAN RADISH, BOK CHOY, CHINESE BROCCOLI, CHINESE CABBAGE		
Cabbage looper	275-550 g/ha (111-222 g/ac.)	Use in 400 L/ha An non-ionic surfactant is suggested for this crop
Diamondback moth	275 g/ha (111 g/ac.)	
Imported cabbageworm	55-140 g/ha (22.3-56.7 g/ac.)	
BLUEBERRY (highbush), CHERRY, CRANBERRY		
Cherry fruitworm Fruitworm	1680 g/ha (680 g/ac.)	Apply at egg hatch, from petal fall through to green fruit stage Use a minimum of 300 L/ha and an airblast sprayer Maximum of 4 applications per season Repeat on a 3-14 day interval if needed
BLUEBERRY (lowbush)		
Blueberry spanworm Chainspotted geometer Rannoch looper	550-1125 g/ha (222-455 g/ac.)	Maximum of 4 applications per year. Apply in a minimum of 300 L/ha. Apply when larvae in the first or second instar are present at or above the economic threshold.
BROCCOLI		
Cabbage looper	275-550 g/ha (111-222 g/ac.)	An non-ionic surfactant is suggested for this crop
Diamondback moth Imported cabbageworm	55-140 g/ha (22.3-56.7 g/ac.)	
CABBAGE		
Cabbage looper	275-550 g/ha (111-222 g/ac.)	An non-ionic surfactant is suggested for this crop
Diamondback moth	55-275 g/ha (22.3-222 g/ac.)	
Imported cabbageworm	275 g/ha (111 g/ac.)	
CAULIFLOWER		
Cabbage looper	275-550 g/ha (111-222 g/ac.)	An non-ionic surfactant is suggested for this crop
Imported cabbageworm	55-140 g/ha (22.3-56.7 g/ac.)	Maximum of 5 applications per year
CHOCKECHERRY ORCHARDS AND SHELTERBELTS		
Fall webworm	635 g/ha (257 g/ac.)	One application per year Mix 0.288 kg of product in 1,000 L of water Apply at a rate of 22 L mixture per 100 m ² Apply as soon as tents are visible

INSECTS CONTROLLED	RATE	APPLICATION INFORMATION
COLLARDS		
Cabbage looper	275-550 g/ha (111-222 g/ac.)	An non-ionic surfactant is suggested for this crop
CRANBERRIES		
Green and brown spanworm	275-550 g/ha (111-222 g/ac.)	
GINSENG		
Leafrollers	565-1,125 g/ha (228-455 g/ac.)	
GRAPE		
Grape berry moth	1,125 g/ha (455 g/ac.)	Begin applications after adult flight begins – before egg hatch Use a high water volume Repeat on a 7-10 day interval Maximum 6 applications per year
Leafrollers	125-250 g/ 400 L water	Repeat on a 3-14 day interval
GREENHOUSE CUCUMBER		
Alfalfa looper Cabbage looper Duponchelia fovealis	625 g/1,000 L 75-150 g/250 L	Make applications when egg hatch is complete and when larvae are small Repeat every 3-14 days if needed
GREENHOUSE EGGPLANT, PEPPER, TOMATO		
Cabbage looper	75-150 g/250 L	Make applications when egg hatch is complete and when larvae are small Repeat every 3-14 days if needed
GREENHOUSE FRUITING VEGETABLES		
Duponchelia fovealis	625 g/1,000 L	Make applications when egg hatch is complete and when larvae are small Repeat every 7 days if needed
Lepidopteran leafminers	500-1,000 g/ 1,000 L	Make applications when egg hatch is complete and when larvae are small Repeat every 7-10 days if needed
GREENHOUSE HERBS, GREENHOUSE ORNAMENTALS		
Duponchelia fovealis	625 g/1,000 L	Make applications when egg hatch is complete and when larvae are small Repeat every 7 days if needed
GREENHOUSE WASABI		
Alfalfa looper Cabbage looper	75-150 g/250 L	Apply at the first signs of infestation Treat when larvae are young (early instars) Repeat applications on a 7-10 day interval if needed Maximum 8 applications per year
HOPS		
European corn borer	560-1,120 g/ha (226-453 g/ac.)	Apply at first sign of infestation Repeat on a 3-14 day interval if needed
Hop looper	275-550 g/ha (111-222 g/ac.)	
KALE, LETTUCE, MUSTARD GREENS, SPINACH, TURNIP GREEN		
Cabbage looper	275-550 g/ha (111-222 g/ac.)	An non-ionic surfactant is suggested for this crop

INSECTS CONTROLLED RATE APPLICATION INFORMATION

NUT CROPS – HAZELNUTS, PECANS, SWEET CHESTNUTS, WALNUTS

Leafrollers (European, Fruittree, Obliquebanded, Threelined)	1,125-1,675 g/ha (455-678 g/ac.)
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PARSLEY

Cabbage looper	275 g/ha (111 g/ac.)
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QUINOA

European corn borer	560-1,120 g/ha (226-453 g/ac.)	Apply when pinhole feeding is observed in at least 5% of the plants Repeat on a 7 day interval if needed Apply before larvae begin stalk-boring
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RED RASPBERRY

Early season Oblique-banded leafroller (OBLR)	550-1,125 g/ha (222-455 g/ac.)
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STONE FRUIT – APRICOT, CHERRY PEACH PLUM/PRUNE

Fruitworm	1,125-1,675 g/ha (455-678 g/ac.)	Apply in 2000 L/ha at pink stage to petal fall
Leafrollers (European, Fruittree, Obliquebanded, Threelined)		Apply in 600-800 L/ha at pink stage and, if populations are heavy, at petal fall using an air-blast orchard sprayer. Weekly applications may be necessary if egg hatch is asynchronous.

SUNFLOWER

Sunflower moth	315-625 g/ha (127-253 g/ac.)	Applied as an aerial application. Mix amount in 20 L of water. Apply when 20-50% of heads are in bloom Thorough coverage is needed, apply second application if required
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SWEET CORN

European corn borer	560-1,120 g/ha (226-453 g/ac.)	Apply when pinhole feeding is observed in at least 5% of the plants Repeat on a 7 day interval if needed
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TIMOTHY

Essex (European) skipper	140-275 g/ha (56.7-111 g/ac.)
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TOBACCO

Hornworm	55-140 g/ha (22.3-56.7 g/ac.)
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TOMATO

Cabbage looper	275-550 g/ha (111-222 g/ac.)	
Tomato fruitworm	550 g/ha (222 g/ac.)	For Tomato fruitworm apply every 5-7 days



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Always read and follow the product label for more detailed information on control of weeds, insects or disease, application directions, and use precautions. Please refer to label for more information including future label expansions that may include new crops, pests and use patterns. Please refer to label for re-entry periods.

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