

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

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

GENERAL USAGE INFORMATION

- DiPel is OMRI-certified for use in organic production
- Apply DiPel 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
- Apply after egg hatch when larvae are small
- 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* (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



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 |
| Winter moth** (not registered for pears) | 280 g/ha (113 g/ac.) | **For use in combination with Ripcord or Cymbush See the respective labels for specific instructions Follow the most restrictive label |
| 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 highly 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 highly 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 highly 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 highly suggested for this crop |
| Imported cabbageworm | 55-140 g/ha (22.3-56.7 g/ac.) | Maximum of 5 applications per year |

INSECTS CONTROLLED RATE APPLICATION INFORMATION

COLLARDS

| | | |
|----------------|---------------------------------|---|
| Cabbage looper | 275-550 g/ha (111-222 g/ac.) | An non-ionic surfactant is highly suggested for this crop |
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CRANBERRIES

| | | |
|--------------------------|---------------------------------|--|
| Green and brown spanworm | 275-550 g/ha (111-222 g/ac.) | |
|--------------------------|---------------------------------|--|

GINSENG

| | | |
|-------------|----------------------------------|--|
| Leafrollers | 565-1125 g/ha (228-455 g/ac.) | |
|-------------|----------------------------------|--|

GRAPE

| | | |
|------------------|---------------------------|--|
| Grape berry moth | 1125 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 <i>Duponchelia fovealis</i> | 625 g/1000 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

| | | |
|-----------------------------|-----------------------|--|
| <i>Duponchelia fovealis</i> | 625 g/1000 L | Make applications when egg hatch is complete and when larvae are small Repeat every 7 days if needed |
| Lepidopteran leafminers | 500-1000 g/ 1000 L | Make applications when egg hatch is complete and when larvae are small Repeat every 7-10 days if needed |

GREENHOUSE HERBS, GREENHOUSE ORNAMENTALS

| | | |
|-----------------------------|--------------|---|
| <i>Duponchelia fovealis</i> | 625 g/1000 L | Make applications when egg hatch is complete and when larvae are small Repeat every 7 days if needed |
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HOPS

| | | |
|---------------------|----------------------------------|---|
| European corn borer | 560-1120 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.) | |

| INSECTS CONTROLLED | RATE | APPLICATION INFORMATION |
|---|-----------------------------------|--|
| KALE, LETTUCE, MUSTARD GREENS, SPINACH, TURNIP GREEN | | |
| Cabbage looper | 275-550 g/ha (111-222 g/ac.) | An non-ionic surfactant is highly suggested for this crop |
| NUT CROPS | | |
| Leafrollers | 1125-1675 g/ha (455-678 g/ac.) | |
| PARSLEY | | |
| Cabbage looper | 275 g/ha (111 g/ac.) | |
| RED RASPBERRY | | |
| Early season Oblique-banded leafroller (OBLR) | 550-1125 g/ha (222-455 g/ac.) | |
| STONE FRUIT | | |
| Fruitworm** Leafrollers* | 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. **Apply in 2000 L/ha at pink stage to petal fall |
| SUNFLOWER | | |
| Sunflower moth | 315-625 g/ha (127-253 g/ac.) | Applied as an aerial applications. 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 |
| SWEET CORN | | |
| European corn borer | 560-1120 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 |
| TIMOTHY | | |
| Essex (European) skipper | 140-275 g/ha (56.7-111 g/ac.) | |
| TOBACCO | | |
| Hornworm | 55-140 g/ha (22.3-56.7 g/ac.) | |
| 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 |



1.800.868.5444 | Nufarm.ca

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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