



DUPONT™ EXIREL™ INSECTICIDE
POWERED BY CYAZYPYR™.

DuPont™
Cyazypyr™
insecticide

DUPONT™ CYAZYPYR™ INSECTICIDE IS THE SECOND ACTIVE INGREDIENT IN THE ANTHRANILIC DIAMIDE CLASS AND THE FIRST PRODUCT TO CONTROL A CROSS-SPECTRUM OF CHEWING AND SUCKING PESTS.

Cyazypyr™ has a unique combination of features and product attributes:

Features	Attributes
Cross spectrum	Controls mixed pest populations
Fast acting	Protects crops from feed damage and transmission of some diseases
Translaminar	Rainfastness and improved availability of Cyazypyr™ to different kinds of pests
Root systemic	Controls foliar pests when applied to the roots
New mode-of-action for chewing and sucking pests	Controls pests resistant to other modes-of-action
Selective for beneficial arthropods	Strong fit in Integrated Pest Management programs
Low mammalian toxicity	Convenient to use and low impact on the environment

Global research trials demonstrated plant health benefits to crops protected with Cyazypyr™

Cyazypyr™

commercial standard

Fast acting protection: immediate cessation of feeding protects crops from feed damage and transmission of some diseases.

How Cyazypyr™ works to protect the plant quickly

Cyazypyr™ impacts insect behaviour by impairing muscle function.

a. Muscles are composed of muscle fibres with bundles of fibrils.
b. Normal contraction is triggered by the release of calcium from intracellular stores, regulated by ryanodine receptors.
c. Cyazypyr™ selectively binds to insect RyRs causing uncontrolled release of calcium and uncoordinated contractions.
d. Depletion of internal calcium stores prevents further muscle contractions.

Cyazypyr™ activates insect ryanodine receptors (RyRs) which plays a critical role in muscle function. Contraction of muscles requires a regulated release of calcium from intercellular stores into the cell cytoplasm. RyRs act as selective ion channels, modulating the release of calcium. Cyazypyr™ molecules bind to the RyRs, causing uncontrolled release and depletion of internal calcium, preventing further muscle contraction.

Questions?
For more information, please contact your local DuPont rep or call the DuPont™ FarmCare® Support Centre at 1-800-667-3925 or visit cropprotection.dupont.ca

As with all crop protection products, read and follow label instructions carefully. All information effective January 2015.
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**ONE STEP CLOSER
TO A STRONGER CROP.**

DUPONT™
The miracles of science™

**DuPont™
Exirel™**
insecticide
powered by
CYAZYPYR™

DUPONT™ EXIREL™ INSECTICIDE, POWERED BY CYAZYPYR™, IS AN INNOVATIVE INSECTICIDE TO HELP PROTECT BLUEBERRY CROPS FROM A CROSS-SPECTRUM OF CHEWING AND SUCKING PESTS.

Designed for superior foliar protection:

- Exirel™ is rapidly absorbed into foliage to protect against a cross-spectrum of pests including clay coloured weevils, black vine weevils and spotted wing drosophila
- Systemic in the plant for residual control
- Translaminar and local systemic movement and excellent rainfastness
- Excellent crop safety
- 3 day pre-harvest interval for blueberries
- Convenient single-active formulation

Highly effective IPM product:

- Conserves beneficial arthropods to help in pest control
- New mode-of-action for weevils, spotted wing drosophila and sucking insects
- Favourable Eco-tox and E-fate profile; providing low impact on the environment

Optimized formulation:

- Suspo-emulsion formulation: 100 g/L (Suspo-emulsion is a formulation containing both solid and liquid active ingredients dispersed in an aqueous phase).



ONE STEP CLOSER TO A STRONGER CROP.

Approved for use on the following crops:

- | | | | |
|-----------------------|--------------------------------|-----------------------|---------------|
| • Brassica vegetables | • Corm and tuberous vegetables | • Fruiting vegetables | • Stone fruit |
| • Bulb vegetables | | • Leafy vegetables | • Tree nuts |
| • Bush berries | • Cucurbit vegetables | • Pome fruit | |

Insects controlled:

- | | | | |
|---------------------------------|--------------------------------|----------------------------------|---------------------------------|
| • Aphids | • Corn earworm | • Fruit tree leafroller | • Swede midge |
| • Apple maggot | • Cranberry fruitworm | • Green peach aphid | • Three-lined leafroller |
| • Armyworm | • Cutworms | • Imported cabbageworm | • Thrips ¹ |
| • Beet armyworm | • Diamondback moth | • Japanese beetle | • Tobacco hornworm ¹ |
| • Black vine weevils | • Dipteran leafminers (larvae) | • Oblique-banded leafroller | • Tomato fruitworm |
| • Blueberry aphid | • European apple sawfly | • Oriental fruit moth | • Tomato hornworm ¹ |
| • Blueberry gall midge | • European corn borer | • Plum curculio | • Tufted apple bud moth |
| • Blueberry maggot ¹ | • European leafroller | • Rosy apple aphid | • Western tentiform leafminer |
| • Cabbage looper | • Eyespotted bud moth | • Spotted tentiform leafminer | • White apple leafhopper |
| • Clay coloured weevils | • Fall armyworm | • Spotted wing drosophila | |
| • Codling moth | • Flea beetle | | |
| • Colorado potato beetle | | | |

¹ Suppression.

Application Instructions:

- **Clay colored weevils:** Begin application when damage to buds is first detected (in the spring).
- **Black vine weevils:** Apply when most of the adults have emerged but before they begin to lay eggs (early summer).
- **Spotted wing drosophila:** Begin application when populations are low. Exirel™ targets the adult life stage of spotted wing drosophila. If spotted wing drosophila populations are high, use a registered insecticide with a different mode of action to reduce pest populations. Apply a subsequent application of Exirel™ if required.

Tank-mix and Crop Tolerance Statement: Exirel™ insecticide is a suspo-emulsion. Tank mixing Exirel™ insecticide with some products formulated as emulsifiable concentrates (EC) and certain fungicides can result in crop injury. Strobilurin (Group 11) fungicides and copper- and captan containing fungicides applied in tank mixes with Exirel™ insecticide, or applied close in time to application of Exirel™ insecticide, have been shown to cause crop injury under laboratory settings. Tank mixes of Exirel™ with some products formulated as emulsifiable concentrates (EC), strobilurin (Group 11) fungicides (for example Cabrio® and Quadris®), copper and sulfur based fungicides, chlorothalonil based fungicides (for example, Bravo® Weather Stik®), and the fungicides Captan®, Tanos®, Rally® and Manzate® may result in adverse crop response. Some materials including oils, surfactants, adjuvants, nutritionals and pesticide formulations when applied individually, sequentially, or in tank mixtures may solubilize the plant cuticle, facilitate penetration into plant tissue, and increase the potential for crop injury. The application of strobilurin (Group 11) fungicides in a short time sequence (i.e., seven days apart or less between applications) before or after Exirel™ may also result in adverse crop response. Applying Exirel™ with any product that produces adverse crop response in a tank mixture, specifically including, but not limited to, those listed above, may also cause adverse crop response when applied in a short time sequence. Such uses should be tested as described below before broad application is made.

Crop varieties can differ in their responsiveness, and environmental conditions can have an influence. It is not possible to test Exirel™ insecticide alone or with all possible tank mix combinations on all crop varieties under all environmental conditions. To prevent potential crop injury, test the mixture in a limited area in accordance with label directions prior to using Exirel™ insecticide with any tank mix partner on a wide area. When considering the use of a tank mixture on a labeled crop without prior experience, or which is not specifically described on Exirel™ product labeling or in other DuPont product use instruction, or when applying any of the aforementioned products in close sequence with Exirel™, it is important to check crop safety first. Follow the most restrictive label. Consult a DuPont representative for more information regarding use of Exirel™ insecticide in tank mixtures.

