



## SUPPLEMENTAL LABELING

### DUPONT™ EXIREL™ INSECT CONTROL

**DuPont Crop  
Protection**

## DUPONT™ EXIREL™ INSECT CONTROL

EPA REG. NO. 352-859

This label expires as of 12/31/2018

### FOR USE ON POTATOES AND BULB VEGETABLES VIA OVERHEAD- CHEMIGATION IN THE UNITED STATES

#### DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

#### IMPORTANT

**BEFORE USING EXIREL™, READ AND FOLLOW ALL APPLICABLE DIRECTIONS; RESTRICTIONS; AND PRECAUTIONS ON THE EPA-REGISTERED LABEL.**

This bulletin contains new or supplemental instructions for use of this product which does not appear on the package label. Follow the instructions carefully.

This labeling must be in the possession of the user at the time of pesticide application.

#### General Information

EXIREL™ is a suspoemulsion (oil in water emulsion) that is applied by foliar application to manage insect pests in potatoes and bulb vegetables. EXIREL™ is mixed with water for application.

#### Application Information, Rates and Timing

DuPont™ EXIREL™ is recommended for control of Colorado potato beetle, beet armyworm, European corn borer, potato tuberworm, yellow striped armyworm, cabbage looper, green peach aphid and potato psyllid and suppression of potato flea beetle, potato aphid and zebra chip disease in potatoes at rates of 5.0 to 20.5 fl oz of product per acre (consult main label for recommended rates by pest); and suppression of thrips and control of leafminers in bulb vegetables at the rate of 13.5 to 20.5 fl oz of product per acre through overhead chemigation systems.

Thrips suppression in bulb vegetables: Use as part of an effective thrips control program and rotate with products with different modes of action. For best performance, use with an effective adjuvant. See "Use of Adjuvants" section of main label. Begin making applications to thrips when populations are low (1-3 thrips per plant). If populations are higher, use an effective thrips knockdown product before applying EXIREL™. Make sequential applications at 7 to 10 day intervals.

Do not apply a total of more than 0.4 lb ai/A of CYAZYPYR® or cyantraniliprole containing products per crop. Make the last application of EXIREL™ at least 1 day before harvest in bulb vegetables and 7 days in potatoes.

#### CHEMIGATION - Overhead Sprinkler - Potatoes and Bulb Vegetables

The following types of irrigation equipment may be used for chemigation applications to potatoes and bulb vegetables: overhead sprinkler irrigation systems. Apply DuPont™ EXIREL™ in sufficient water and of sufficient duration to ensure the recommended rate is applied evenly to the entire treated area. Inject EXIREL™ downstream from any water filtration system.

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Do not connect any irrigation system used for pesticide applications to a public water system unless the pesticide label-prescribed safety devices are in place. Public water system means a system for the provision to the public of piped water for human consumption, if such system has at least 15 service connections or regularly serves an average of at least 25 individuals at least 60 days out of the year.

See "Required System Safety Devices For All Chemigation Systems" at the end of the Chemigation section.

## **APPLICATION INSTRUCTIONS FOR CHEMIGATION USING OVERHEAD SPRINKLER SYSTEMS - POTATOES AND BULB VEGETABLES**

Types of Chemigation Systems: EXIREL™ may be applied to potatoes and bulb vegetables through overhead sprinkler irrigation systems, including the following; center pivot, end tow, hand move, lateral move, side roll, solid set and wheel line. The irrigation system used must provide uniform water distribution.

### **Directions for Chemigation:**

#### **Preparation**

A pesticide tank is recommended for the application of EXIREL™ in chemigation systems.

Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. With the mix tank 1/4 to 1/2 full with water and the agitator running, measure the required amount of EXIREL™ and add it to the tank. The highest labeled rate for the specified pest may be necessary when making overhead chemigation applications. Then add additional water to bring your total pesticide mixture up to the desired volume for your application. Note: Always add the EXIREL™ to water, never put EXIREL™ into a dry tank or other mixing equipment without first adding water. See "Tank Mixing Sequence" section of the container label for tank mixing sequence. Continue to agitate the mixture throughout the application process. Use mechanical or hydraulic agitation, do not use air agitation.

#### **Injection Into Chemigation Systems**

Inject the proper amount of EXIREL™ into the irrigation water flow using a positive displacement injection pump or a Venturi injector. Injection should occur at a point in the main irrigation water flow to ensure thorough mixing with the irrigation water. For continuously moving systems, inject the solution containing EXIREL™ into the irrigation water line continually and uniformly throughout the irrigation cycle. The recommended maximum water volume for the overhead chemigation application is 0.2 acre inches of water. For overhead sprinkler systems that are stationary, add the solution containing EXIREL™ to the irrigation water line and apply in a maximum water volume of 0.2 acre inches of water.

#### **Uniform Water Distribution**

The irrigation system used for application of EXIREL™ must provide for uniform distribution of EXIREL™ treated water. Non-uniform distribution can result in crop injury, lack of effectiveness or illegal pesticide residues in or on the crop being treated. Ensure the irrigation system is calibrated to uniformly distribute the chemigation application to the crop. Contact the equipment manufacturer, the local University Extension agent or other experts if you have questions about achieving uniform distribution of the application.

#### **Equipment Calibration**

Calibrate the irrigation system and injector before applying EXIREL™. Calibrate the injection pump while the system is running using the expected irrigation rate. If you have questions about calibration, you should contact your state extension service specialists, equipment manufacturer or other experts.

#### **Monitoring of Chemigation Applications**

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of a responsible person, shall shut the system down and make necessary adjustments should the need arise. Wear the personal protective equipment as defined in the PPE section of the label for applicators and other handlers when making adjustments or repairs on the chemigation system when EXIREL™ is in the irrigation water.

#### **Operation**

Start the water pump and sprinkler, and let the system achieve the desired pressure and speed before starting the injector. Start the injector and calibrate the injection system according to the directions above. This procedure is necessary to deliver the desired rate per acre in a uniform manner. When the application is finished, allow the entire irrigation and injector system to be thoroughly flushed clean before stopping the system.

- End guns must be turned off during the application, if they irrigate nontarget areas or if they do not provide uniform application and coverage.
- It is recommended that nozzles in the immediate area of wells, control panels, chemical supply tanks and system safety devices be plugged to prevent contamination of these areas.

- Do not apply when wind speed favors drift beyond the area intended for treatment.
- Do not apply when system connections or fittings leak or when nozzles do not provide uniform distribution.
- Do not allow irrigation water to collect or run-off during chemigation.

### **Cleaning the System**

Thoroughly clean the injection system and tank of any fertilizer or chemical residues using a standard clean-out procedure. Dispose of any residues in accordance with State and Federal laws. Consult your owner's manual or your local equipment dealer for cleanout procedures for your injection system.

### **REQUIRED SYSTEM SAFETY DEVICES FOR ALL CHEMIGATION SYSTEMS**

1. The system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. Systems must use a metering device, such as a positive displacement pump or a Venturi injector, that provides uniform injection of the product, is effectively designed and constructed of materials compatible with the product, and is capable of being fitted with a system interlock.
7. Chemigation systems connected to public water systems must contain a functional, reduced- pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

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