

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460



OFFICE OF  
PREVENTION, PESTICIDES,  
AND TOXIC SUBSTANCES

January 7, 2010

Dr. Richard A. Carver  
DuPont Crop Protection  
Stine-Haskell Research Center  
P.O. Box 30  
Newark, DE 19714-0030

Dear Dr. Carver:

Subject: Revised supplemental labeling for application to spinach by overhead sprinkler  
DuPont™ Avaunt® Insecticide  
EPA Registration No. 352-597  
Your submission dated October 12, 2009

The proposed supplemental labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, is acceptable with the following comment:

- Please add the following text to the label, under the product name: **“This label expires and must not be used or distributed after July 7, 2011.”**

Submit two copies of your final printed labeling before you release the product for shipment. A stamped copy is enclosed for your records. If you have any questions, please contact me at (703) 308-8735 or [chao.julie@epa.gov](mailto:chao.julie@epa.gov).

Regards,

A handwritten signature in black ink that reads "Julie A. Chao".

Julie A. Chao  
Insecticide-Rodenticide Branch  
Registration Division (7505P)

Enclosure



ACCEPTED  
With COMMENTS  
In EPA Letter Dated:

JAN - 7 2010

Under the Federal Insecticide, Fungicide  
and Rodenticide Act, As amended, for the  
pesticide Registered under EPA Reg. No:

352-597

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SUPPLEMENTAL LABELING

DUPONT™ AVAUNT®  
INSECTICIDE

FOR USE ON SPINACH VIA OVERHEAD  
SPRINKLER  
IN THE STATES OF AR, GA, MO,  
NC, NM, OK AND TX

**DUPONT™ AVAUNT® INSECTICIDE**

EPA Reg. No. 352-597

**FOR USE ON SPINACH VIA OVERHEAD SPRINKLER IRRIGATION  
IN THE STATES OF ARKANSAS, GEORGIA, MISSOURI, NORTH  
CAROLINA, NEW MEXICO, OKLAHOMA, AND TEXAS**

**DIRECTIONS FOR USE**

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

**IMPORTANT  
BEFORE USING AVAUNT INSECTICIDE,  
READ AND FOLLOW ALL APPLICABLE  
DIRECTIONS, RESTRICTIONS AND  
PRECAUTIONS ON THE EPA-REGISTERED  
LABEL.**

AVAUNT® is a water dispersible granule that is applied by foliar applications to control many important insect pests. AVAUNT® is mixed with water for application.

**Application Information, Rates and Timing**

Apply DuPont™ AVAUNT® for control of beet armyworm and cabbage looper at the rate of 3.5 oz of product per acre through overhead sprinkler irrigation systems. Make applications of AVAUNT® in 0.1 to 0.2 inches of water per acre. Make sequential applications at 3 day intervals or until insect populations are brought below threshold. Do not apply more than 14.0 oz (0.26 lbs a.i.) AVAUNT® per crop. Do not harvest spinach within 3 days of the last application of AVAUNT®.

**Types of Chemigation Systems:**

AVAUNT® may be applied only through overhead sprinkler irrigation systems for control of beet armyworm and cabbage looper in spinach. The irrigation system used must provide uniform water distribution. Do not use filter screens smaller than 50 mesh throughout the system, due to possible build up of material on 100 mesh or smaller screens. Do not apply AVAUNT® through any other type of irrigation system.

**Preparation**

Use a pesticide tank for the application of AVAUNT® 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 AVAUNT® and add it to the tank. Then add additional water to bring your total pesticide mixture up to the desired volume for your application. Note: Always add the AVAUNT® to water, never put AVAUNT® into a dry tank or other mixing equipment without first adding water. See 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. Highly alkaline water must be buffered so that the pH of the spray solution is in the range of neutral to slightly acidic.

**Injection Into Chemigation Systems**

Inject the proper amount of AVAUNT® into the irrigation water flow using a positive displacement injection pump. Inject the mixture at a point in the main irrigation water flow to ensure thorough mixing with the irrigation water.

**Uniform Water Distribution**

The irrigation system used for application of AVAUNT® must provide for uniform distribution of AVAUNT® treated water. Non-uniform distribution might 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 AVAUNT®. 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 AVAUNT® is in the irrigation water.

### Required System Safety Devices

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 a 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.

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 pump such as a positive displacement injection pump (e.g. diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and 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 must 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.

### 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.

Plug nozzles in the immediate area of control panels, chemical supply tanks and system safety devices 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.

### 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.

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

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

Read the Limitation of Warranty and Liability on the Section 3 Federal product label before buying or using AVAUNT® Insecticide. If terms are not acceptable, return the unopened package at once to Seller for full refund of purchase price paid. Otherwise, use by Buyer or any other User constitutes acceptance of the terms of the Limitation of Warranty and Liability on the Section 3 Federal product label.

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