



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs  
Registration Division (7505P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

42750-283

Date of Issuance:

11/06/2014

NOTICE OF PESTICIDE:

Registration  
 Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

Fludioxonil 99% Fogger

Name and Address of Registrant (include ZIP Code):

Morris Gaskins  
Albaugh, LLC  
P.O. Box 2127  
Valdosta, GA 31604-2127

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Hope Johnson, Product Manager 21  
Fungicide Branch, Registration Division (7505P)

Date:

11/06/2014

2. You are required to comply with the DCI identified below:

a. Fludioxonil GDCI-071503-1243, issued on 12/05/2012

You must comply with all of the data requirements within the deadlines established by the order. If you have questions about the Generic DCI listed above, you may contact the Chemical Review Manager in the Pesticide Reevaluation Division: [http://www.epa.gov/oppsrrd1/contacts\\_prd.htm](http://www.epa.gov/oppsrrd1/contacts_prd.htm)

3. Make the following label changes before you release the product for shipment:

- Revise the EPA Registration Number to read, "EPA Reg. No. 42750-283."
- Add appropriate Net Contents to the label.
- Add an appropriate EPA Establishment number to the label.

4. Submit one copy of the final printed label for the record before you release the product for shipment.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSF:

- Basic CSF dated 8/21/2014

If you have any questions, please contact Erin Malone at (703) 347-0253 or by email at [malone.erin@epa.gov](mailto:malone.erin@epa.gov).

Sincerely,

Hope Johnson, Product Manager 21  
Fungicide Branch  
Registration Division (7505P)  
Office of Pesticide Programs

# FLUDIOXONIL 99% FOGGER

Group	12	Fungicide
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FLUDIOXONIL 99% FOGGER for post-harvest thermal fogging on pome fruit.

ACTIVE INGREDIENT: Fludioxonil*	99.2%
OTHER INGREDIENTS:	0.8%
TOTAL:	100.0%

\*CAS No. 131341-86-1

Do not formulate this product in to other end-use products.



KEEP OUT OF REACH OF CHILDREN

CAUTION

See additional precautionary statements and directions for use inside booklet

FIRST AID	
IF ON SKIN	<ul style="list-style-type: none"> <li>Take off contaminated clothing</li> <li>Rinse skin immediately with plenty of water for 15-20 minutes</li> <li>Call a <u>poison control center or doctor</u> for treatment advice</li> </ul>
IF IN EYES	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a <u>poison control center or doctor</u> for treatment advice</li> </ul>
IF INHALED	<ul style="list-style-type: none"> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>Call a <u>poison control center or doctor</u> for further treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor, or going for treatment	
HOT LINE NUMBER: For 24-Hour Medical Emergency Assistance or Chemical Emergency Assistance (Spill Leak, Fire, or Accident), Call CHEMTREC toll free at 1-800-888-8372	

EPA Reg. No. 42750-xxx

EPA Est. No. xxxxxx-xx-xxx

NET CONTENTS: \_\_\_\_\_ Pounds (ounces)

MANUFACTURED FOR:  
Albaugh, LLC  
Ankeny, IA 50021

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Harmful if absorbed through skin. Causes moderate eye irritation. Harmful if inhaled. Avoid breathing dust. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Handlers (including mixers, loaders, persons cleaning or setting up the fogging equipment, and persons handling treated fruit) must wear:

- Long-sleeved shirt and long pants
- Protective eyewear (such as goggles, safety glasses, or a face shield)
- Chemical-resistant gloves made from any waterproof material (such as natural rubber)
- Shoes plus socks

In addition, fumigating applicators must wear:

- Full-face respirator with organic vapor filter

#### USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

#### USER SAFETY RECOMMENDATIONS

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
2. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. Remove PPE immediately after handling this product. Wash the outside, of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish, aquatic invertebrates, oysters and shrimp. Do not contaminate water when disposing of equipment washwater or rinsate.

#### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR DISEASE CONTROL.

#### PRODUCT INFORMATION

FLUDIOXONIL 99% FOGGER is a fungicide used to aid in the control of post-harvest diseases in storage facilities.

#### RESISTANCE MANAGEMENT

FLUDIOXONIL 99% FOGGER contains fludioxonil which is in the phenylpyrrole class of chemistry and has a unique mode of action, which prevents fungal respiration (Fungicide Action Group 12). Fungal isolates with acquired resistance to Group 12 may eventually dominate the fungal population if Group 12 fungicides are used repeatedly in the same field or packing facility or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by fludioxonil or other Group 12 fungicides. A disease management program that includes alternation or tank mixes between FLUDIOXONIL 99% FOGGER and other labeled fungicides that have a different mode of action may prevent pathogen populations from developing resistance. Use sanitation and other cultural practices to minimize pathogen populations in order to control disease and prevent or delay resistance development.

#### APPLICATION RESTRICTIONS

- Only apply 1 post-harvest application of fludioxonil-containing product.
- Do not apply to fruit previously treated with fludioxonil via drench or dip/wash.
- Apply only with a thermal fogging machine.

#### MIXING PROCEDURES

Prepare no more mixture than is needed for the immediate operation.

If using FLUDIOXONIL 99% FOGGER in a tank mixture, observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank-mix product label. Do not exceed any label dosage and apply the most restrictive label precautions. Do not mix FLUDIOXONIL 99% FOGGER with any other product whose label prohibits such mixing. Tank mixtures are permitted only in those states where the tank-mix partner is registered.

THE CROP SAFETY OF ALL POTENTIAL TANK MIXES INCLUDING ADDITIVES AND OTHER PESTICIDES ON ALL CROPS HAS NOT BEEN TESTED. BEFORE APPLYING ANY TANK MIXTURE, THE SAFETY TO THE TARGET CROP SHOULD BE CONFIRMED.

#### APPLICATION INSTRUCTIONS

Apply FLUDIOXONIL 99% FOGGER at rates and timings as described in this label.

Only other fungicides compatible with FLUDIOXONIL 99% FOGGER, diphenylamine (DPA), and the carrier, and approved for fogging applications can be tank mixed with FLUDIOXONIL 99% FOGGER. Follow all label directions and restrictions for each ingredient in the tank mixture.

Preparation for FLUDIOXONIL 99% FOGGER Treatment

Note: When rooms are treated with less than 75% fruit capacity, calculate the dosage by adding a tonnage value of 20% of the empty volume to the real tonnage of the fruit.

FLUDIOXONIL 99% FOGGER applied with postharvest-approved carrier for pome fruit storage.

- Mixers, Loaders, Applicators, and Handlers must use PPE from the most restrictive product.
- Heat the carrier using an appropriate container. Cover and place the container on an electrical heater and heat to 180°F.
- Calculate the amount of FLUDIOXONIL 99% FOGGER according to the application rate.
- Weigh the amount of FLUDIOXONIL 99% FOGGER to the nearest gram into a clean and dry container.
- Add the FLUDIOXONIL 99% FOGGER slowly under gentle mixing to the carrier.

#### Thermal Fogger Operation

- Place the thermal fogger machine horizontally outside the treatment room at a height of about 3 feet from the floor. Insert the fogging pipe through the porthole in the door to the storage room.
- Seal the opening around the nozzle with thermally resistant tape.
- Adjust the pump and mount the nozzle to deliver up to 120 mL per minute.
- Turn on the thermal fogger machine.
- Insert the insulated input pipe into the aerosol mixture. Start the pump.
- Maintain the product temperature between 160-180°F.
- Ensure the FLUDIOXONIL 99% FOGGER remains in suspension during application by using agitation, if necessary.
- Maintain fogger inlet temperature between 500-600°F. Do not exceed 650° F fogger temperature (i.e. inner temperature of the fogger barrel at the point of injection).
- Do not use any elbow or allow any restriction at the end of the fog barrel which might cause back-pressure or increase the temperature in the fogger barrel.

#### Application Procedures

- Do not breathe the fog.
- Turn off room cooling systems and humidifiers 12 hours prior to and during treatment.
- Turn off room circulation fans immediately prior to and during treatment.
- Open a small vent in the room during fogging, if necessary, to avoid backpressure.
- Turn on room circulation fans one hour after the treatment.
- Visually check that the fog has totally disappeared (about 5 hours post-treatment) before restarting the cooling systems.

#### Posting

Notify workers of application by warning them orally and posting warning signs at entrances to treated areas.

#### Re-Entry

Entry into the treatment area by another person other than properly trained and equipped handlers is prohibited from the start of application until the treated area is ventilated as follows:

- 8 hours with no ventilation followed by 1 hour of mechanical ventilation
- 24 hours with no ventilation

In case it is necessary to enter the treatment area during treatment or before ventilation requirements have been met, handlers must wear chemical resistant headgear and a self-contained breathing apparatus (SCBA, MSHA/NIOSH approval number prefix TC-13F) in addition to PPE listed under the PRECAUTIONARY STATEMENTS. Follow all applicable safety precautions for entering a controlled atmosphere storage facility, such as monitoring oxygen and carbon monoxide meters to assure proper levels before reentry.

## CROPS USE DIRECTIONS - POST-HARVEST

### POME FRUIT

Apple (*Malus domestica*); Azarole (*Crataegus azarolus*); Crabapple (*Malus* spp.); Loquat (*Eriobotrya japonica*); Mayhaw (*Crataegus aestivalis*, *C. opaca*, and *C. rufula*); Medlar (*Mespilus germanica*); Pear (*Pyrus communis*); Pear, Asian (*Pyrus* spp.); Quince (*Cydonia oblonga*); Quince, Chinese (*Chaenomeles speciosa*); Quince, Japanese (*Chaenomeles japonica*); Tejocote (*Crataegus mexicana*) and cultivars, varieties and/or hybrids of these.

Use FLUDIOXONIL 99% FOGGER as a post-harvest thermal-fog aerosol application to reduce damage from post-harvest diseases caused by:

- Blue mold (*Penicillium expansum*)
- Gray mold (*Botrytis cinerea*)
- Bull's-eye rot (*Neofabraea malacortica*)
- Rhizopus rot (*Rhizopus stolonifer*)
- Bitter rot (*Colletotrichum gloeosporioides*)
- Sphaeropsis rot (*Sphaeropsis pyriputrescens*)
- Phacidiopycnis rot (*Phacidiopycnis piri*)
- Speck rot (*Phacidiopycnis washingtonensis*)
- White rot (*Botryosphaeria dothidea*)
- Alternaria rot (side rot) and surface mold (*Alternaria alternata*)

APPLICATION METHOD	DISEASE	RATE OZ (GRAMS)	REMARKS
Fogging into Storage Facility	Blue mold, Gray mold, Bitter rot, Speck rot, White rot, Phacidiopycnis rot, Sphaeropsis rot, Alternaria rot and surface mold, Rhizopus rot, Bull's-eye rot	0.035 oz/bin  or  1 gram/bin  (900 lb of fruit /bin)	<ul style="list-style-type: none"> <li>• Ensure proper distribution of the product on the fruit.</li> <li>• Treat only dry fruit.</li> <li>• Apply to; fruit as soon after harvest as possible but no more than 15 days after harvest.</li> <li>• Load bins in the storage room with normal spacing between bins and head space.</li> <li>• Do not cover top bins.</li> <li>• Cover the front face of the bins directly in front of the fogging nozzle.</li> </ul>
<p>For maximum decay control during storage, treat fruit before storage with FLUDIOXONIL 99% FOGGER.</p> <p>SPECIFIC USE RESTRICTIONS:</p> <ol style="list-style-type: none"> <li>1) Do not apply to fruit previously treated with fludioxonil via drench or dip/wash.</li> <li>2) Apply only with a thermal fogging machine.</li> <li>3) Only apply 1 post-harvest application of fludioxonil-containing product.</li> </ol>			

## CONVERSION CHART

NUMBER OF 900 LB FRUIT BINS	US TONS OF FRUIT	AMOUNT OF FLUDIOXONIL 99% FOGGER IN - OZ (GRAMS)
100	45	3.5 (100)
500	225	17.5 (500)
1000	450	35.0 (1000)
1500	675	52.5 (1500)
2000	900	70 (2000)

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**PESTICIDE STORAGE:** Store in original containers in a cool, dry place. Do not store this product, under wet conditions.

Keep container closed when not in use. Do not store near food or feed. In case of spill on floor or paved surfaces, sweep and remove to chemical waste storage area until proper disposal can be made if product cannot be used according to the label. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product must be disposed of on-site or at an approved waste disposal facility.

**CONTAINER HANDLING:**

[For paper and plastic bags]

Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration, or by other procedures allowed by state and local authorities.

[For plastic containers equal to or less than 5 gallons (Dry)]

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration or by other procedures allowed by state and local authorities.

[For plastic containers larger than 5 gallons]

Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.



## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of ALBAUGH CROP PROTECTION, Inc. or Seller. To the extent permitted by applicable law. Buyer and User agree to hold ALBAUGH and Seller harmless for any claims relating to such factors.

ALBAUGH warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or ALBAUGH, and, (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, ALBAUGH MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

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ALBAUGH and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of ALBAUGH.