



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

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

May 6, 2016

Dr. Ann Beaulieu  
Director, Regulatory Affairs  
AgroFresh, Inc.  
400 Arcola Road  
PO Box 7000  
Collegeville, PA 19426

Subject: Pesticide Registration Improvement Act (PRIA) Labeling Amendment – amendment to delete use of respirator  
Product Name: AF-701  
EPA Registration Number: 71297-17  
Application Date: 4 February 2016  
OPP Decision Number: 513728

Dear Dr. Beaulieu:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 § CFR 152.3.

Should you wish to add/retain a reference to your company’s website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the U.S. Environmental Protection Agency (EPA). If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims

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made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Cody Kendrick of my team by phone at (703) 347-0468 or via email at [kendrick.cody@epa.gov](mailto:kendrick.cody@epa.gov).

Sincerely,

A handwritten signature in blue ink that reads "Andrew C. Bryceland". The signature is written in a cursive style with a large, sweeping flourish at the end.

Andrew Bryceland, Team Leader  
Biochemical Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511P)  
Office of Pesticide Programs

Enclosure

# AF-701

Protects fruit crops from the various effects of ethylene.

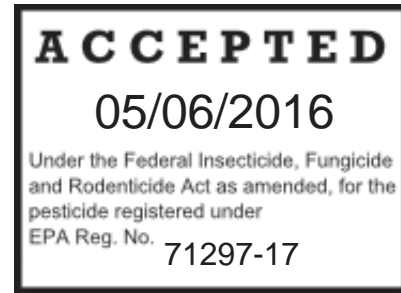
## ACTIVE INGREDIENT:

1-Methylcyclopropene.....1.3%

OTHER INGREDIENTS:.....98.7%

TOTAL:.....100.0%

Produced for: AgroFresh Inc.  
400 Arcola Road, PO Box 7000  
Collegetown, PA, USA, Tel: 1-866-206-1001



**NOTICE:** Before using this product, read the entire Precautionary Statements, Conditions of Sale and Warranty, Directions for Use, Use Restrictions and Storage and Disposal Instructions. If the Conditions of Sale and Warranty are not acceptable, return the product unused within thirty days of purchase to the place of purchase.

## KEEP OUT OF REACH OF CHILDREN CAUTION

| FIRST AID   |   |
|---|---|
| <b>If in eyes</b>   | <ul style="list-style-type: none"><li>▪ Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li><li>▪ Call a poison control center or doctor for treatment advice.</li></ul>               |
| <b>If on skin or clothing</b>   | <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 poison control center or doctor for treatment advice.</li></ul>   |
| <b>If inhaled</b>   | <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 poison control center or doctor for further treatment advice.</li></ul> |
| <b>If swallowed</b>   | <ul style="list-style-type: none"><li>▪ Call a poison control center or doctor immediately for treatment advice.</li><li>▪ Have person sip a glass of water for 15-20 minutes.</li><li>▪ Call a poison control center or doctor for treatment advice.</li></ul>                                     |
| <b>POISON CONTROL CENTER<br/>1-800-222-1222</b>   |   |
| Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For general information on product use, etc., call the National Pesticides Information Center at 1-800-858-7378. For emergencies, call the poison control center 1-800-222-1222. |   |

Lot No. on container

EPA Reg. No. 71297-17  
EPA Est. No. 74225-ID-1

YYYYYY/2016XXXX

**Net Contents (on container):**

|             |            |             |
|-------------|------------|-------------|
| 1 gallon    | 4 gallons  | 55 gallons  |
| 2 gallons   | 5 gallons  | 275 gallons |
| 2.5 gallons | 15 gallons | 330 gallons |
| 3 gallons   | 30 gallons | 500 gallons |

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. Refer to Supplemental Labeling entitled AGRICULTURAL USE REQUIREMENTS in the DIRECTIONS FOR USE section of the labeling for information about this standard.

## PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS - CAUTION** Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing. Harmful if swallowed. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Avoid breathing vapor.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves made of any waterproof material
- Protective eyewear

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

**USER SAFETY RECOMMENDATIONS:** Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should 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

For terrestrial use: Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate. This pesticide is moderately toxic to fish and aquatic invertebrates.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation. 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.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Workers Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the **restricted-entry interval (REI) of 4 hours** unless wearing the appropriate PPE.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is:

- Long -sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks
- Protective eyewear

**Read the entire label before using this product.**

### APPLICATION INSTRUCTIONS

AF-701 is packaged in plastic containers, such as pails and totes. While the package is opened, stand upwind from the container. **DO NOT ADD ANY WATER TO THE CONTAINER.**

**Rate, time and mode of application:** Refer to instructions in crop tables.

**Plant Safety:** This product has been tested on numerous plant varieties with no phytotoxic effects. However, since this product has not been tested on all plant varieties or in combination with all available adjuvants or tank mixes, the manufacturer recommends testing on a small number of plants to check for adverse plant effects before applying on a larger number of plants.

**Incompatibility:** Do not use with products containing copper.

## For treatment of APPLES, PEARS, KIWIFRUIT

- This product may be used with a nonionic surfactant or a wetting agent which is added to the water.
- Do NOT allow product to contact any COPPER.

| CROP          | Application Timing  | RATE<br>fl oz/acre                  | Restrictions   |
|---------------|---|-------------------------------------|--|
| Apple<br>Pear | 3-21 Days Before<br>Anticipated Harvest<br>(Fruit Ripening) | 48 to 242 fl oz<br>(60-300 g ai/ha) | Do not apply more than 242 fl oz /acre per crop. Allow a minimum of 3 days between treatment and harvest |
| Kiwifruit     | 3-21 Days Before<br>Anticipated Harvest<br>(Fruit Ripening) | 12 to 48 fl oz<br>(15-60 g ai/ha)   | Do not apply more than 48 fl oz /acre per crop. Allow a minimum of 3 days between treatment and harvest  |

**APPLES:** AF-701 decreases the rate of fruit maturation, which allows for an extended optimal quality harvest period of 7 to 14 days. Depending on the cultivar, orchard conditions, and grower objectives, one or more of the following benefits may be provided by this delay: improved harvest management, reduction of preharvest fruit drop, reduced fruit ethylene production, additional time for color and size development, maintenance of fruit firmness and acid levels, delayed starch hydrolysis, delayed onset and incidence of watercore, and enhanced storage potential.

**PEARS:** AF-701 provides one or more of the following benefits depending on the cultivar, orchard conditions, and grower objectives: improved harvest management, reduction of preharvest fruit drop, reduced ethylene production, additional time for increased fruit size, maintenance of fruit firmness and enhanced storage firmness.

**KIWIFRUIT:** AF-701 provides one or more of the following benefits depending on the cultivar, orchard conditions and grower objective: improved harvest management, increased fruit size maintenance of fruit firmness before harvest, reduction of preharvest fruit drop, maintenance of fruit quality, and enhanced storage potential.

Determine the number of acres to be treated and load the appropriate amount of AF-701 into the injector nurse tank.

### GROUND APPLICATION

Apply the correct amount of AF-701 from the injector nurse tank. For best results, add an organosilicone surfactant as a wetting agent to the water in the main sprayer tank and use a minimum of 2 gallons of water per acre using an in-line injector system, 3-21 days before anticipated harvest. Follow manufacturer's recommendation for the proper concentration of wetting agent to be used. DO NOT apply when conditions favor drift from the target area. Flat-fan nozzles are preferred. Select nozzles and pressure combinations which deliver moderate (50-300 um range) spray droplets.

### AERIAL APPLICATION

Apply the correct amount of AF-701 from the injector nurse tank. For best results, add an organosilicone surfactant as a wetting agent to the water in the main sprayer tank and use a minimum of 5 gallons of water per acre via helicopter or airplane equipped with an in-line injector system, 3-21 days before anticipated harvest. Follow manufacturer's recommendation for the proper concentration of wetting agent to be used. DO NOT apply when conditions favor drift from the target area. Flat-fan nozzles are preferred. Select nozzles and pressure combinations which deliver coarse (250-375 um range) spray droplets. Select nozzles and pressure combinations that maximize canopy penetration.

**Restrictions/Precautions:**

- Spray at a height of fifteen (15) feet or less above the tree canopy unless a greater height is required for safety.
- Nozzles must always point down, perpendicular to the ground.

**Chemical Injector Systems**

In-line injector systems are specifically designed for use with liquid formulations. This equipment can improve spray efficiency, reduce chemical waste, and facilitate easier clean out. Be sure injector nurse tank is drained and free of all water. Set injector to deliver the recommended amount of AF-701 per acre. Follow the manufacturer's recommendation for proper setting and calibration of the injector.

## IMPORTANT CONSIDERATIONS FOR USE OF AF-701

- Do not apply when temperatures exceed 95 degrees.
- Do not use overhead mist cooling or irrigation equipment for at least 1 hour following application.
- Do not apply if rain is expected within 1 hour of application.
- Combination effects and potential interactions between AF-701 and products containing naphthaleneacetic acid (NAA) or ethephon have not been thoroughly evaluated. Use of these products on crops previously treated with AF-701 may reduce the benefits provided by AF-701 at harvest or after storage.
- Do not apply in winds exceeding 10mph
- Do not allow product to contact any copper or mix with products containing copper.
- Test this product in order to determine its suitability prior to use.
- AF-701 has a 3 day preharvest interval (PHI) for apples, pears, and kiwifruit.

### STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in original packaging in a cool, dry place.

**Pesticide Disposal:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Nonrefillable container. Do not reuse or refill container smaller than 2 (two) gallons. Offer for recycling, if available.

For non refillable 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 concentrated salt 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 a second time with salt water and a third time with water.

For containers greater than 50 lbs: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with concentrated salt water. Replace and tighten closures. Tip container on its side and roll 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 a second time with salt water and a third time with water.

Then offer for recycling if available, or puncture and dispose of in a sanitary landfill or by incineration. Do not burn unless allowed by the State and local ordinances.



**CONDITIONS OF SALE AND  
LIMITATION OF WARRANTY AND LIABILITY**

**BEFORE BUYING OR USING THIS PRODUCT**, read the entire Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of AGROFRESH INC. or the seller is authorized to vary in any way.

Follow the Directions for Use of this product carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop or other plant injury, ineffectiveness, or other unintended consequences may result from such risks as weather or crop conditions, mixture with other chemicals not specifically identified in this product's label, or use of this product contrary to the label instructions, all of which are beyond the control of AGROFRESH INC. and the seller. The buyer or user of this product assumes all such inherent risks.

Subject to the foregoing inherent risks, AGROFRESH INC. 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 when the product is used in strict accordance with such Directions for Use under normal conditions of use. **EXCEPT AS WARRANTED IN THIS LABEL, THIS PRODUCT IS SOLD "AS IS" TO THE EXTENT CONSISTENT WITH APPLICABLE LAW. AGROFRESH INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ELIGIBILITY OF THIS PRODUCT FOR ANY PARTICULAR TRADE USAGE.**

**IN THE UNLIKELY EVENT THAT BUYER OR USER BELIEVES THAT AGROFRESH INC. HAS BREACHED A WARRANTY CONTAINED IN THIS LABEL, BUYER OR USER MUST SEND WRITTEN NOTICE OF SUCH CLAIM TO THE FOLLOWING ADDRESS, TO THE EXTENT REQUIRED BY APPLICABLE LAW:**

AGROFRESH INC.  
ATTENTION: LAW DEPARTMENT  
100 INDEPENDENCE MALL WEST  
PHILADELPHIA, PA 19106-2399

**TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT, INCLUDING BUT NOT LIMITED TO CLAIMS OF BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, OR STRICT LIABILITY.**

**U.S. Patents 6,017,849, 8,541,344 and 8,691,728**