



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

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

October 5, 2021

Brandi Reynolds  
Agri Program Manager  
Arkansas Department of Agriculture  
Plant Industries Division, Pesticide Section  
1 Natural Resources Drive  
Little Rock, AR 72205

Subject: Registration Action Under FIFRA Section 24(c)  
Use of *Aspergillus flavus* AF36 on Cotton and Corn Throughout Arkansas to Displace  
Aflatoxin-producing *Aspergillus flavus*  
EPA Special Local Need (SLN) No. AR210002  
Your Submission Dated June 15, 2021

This letter acknowledges receipt of your notification to the U.S. Environmental Protection Agency (Agency) of a registration, pursuant to section 24(c) of the Federal Insecticide, Fungicide, and Rodenticide Act, as follows:

Product Name: *Aspergillus flavus* AF36 Prevail  
EPA Registration No.: 71693-2  
24(c) Registrant: Arizona Cotton Research and Protection Council  
3721 East Wier Avenue  
Phoenix, AZ 85040

The Agency has reviewed the submitted materials and determined that the subject SLN registration for use of *Aspergillus flavus* AF36 on cotton and corn to reduce aflatoxin-producing *Aspergillus flavus* is acceptable.

If you have any questions concerning this letter, please contact me by telephone at (703) 347-8920 or via email at [kausch.jeannine@epa.gov](mailto:kausch.jeannine@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Jeannine Kausch", is positioned above the typed name.

Jeannine Kausch, Product Manager 92  
Microbial Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511P)  
Office of Pesticide Programs

FIFRA Section 24(c) Special Local Need  
FOR DISTRIBUTION AND USE ONLY IN THE STATE OF ARKANSAS

Not valid after June 9, 2026

***Aspergillus flavus* AF36 Prevail**

For displacing aflatoxin-producing fungi

**COTTON:** FOR USE ONLY IN THE STATE OF ARKANSAS

**CORN:** FOR USE ONLY IN THE STATE OF ARKANSAS

***Aspergillus flavus* AF36** is a strain of *Aspergillus flavus* that was isolated in Arizona and is native and endemic to many states. Apply to cotton just prior to first bloom or to corn from the 7 leaf stage (V7) until silking. ***Aspergillus flavus* AF36** competes with strains of *Aspergillus flavus* that produce large amounts of aflatoxin and, in doing so, limits the amount of these high aflatoxin producers that become associated with the crop.

Active ingredient: <i>Aspergillus flavus</i> strain AF36*	0.0008%
Other ingredients:	99.9992%
Total:	100.0000%

\* Contains a minimum of 3,000 CFU/gram in the End-Use Product

KEEP OUT OF REACH OF CHILDREN

**CAUTION**

First Aid	
<b>IF INHALED:</b>	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
<b>IF ON SKIN OR CLOTHING:</b>	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
<b>IF IN EYES:</b>	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 eye. Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	

SEE PRECAUTIONARY STATEMENTS BELOW AND ON OTHER PANEL

EPA Registration No.: 71693-2  
EPA Establishment No.: 71693-AZ-001  
EPA SLN No.: AR21-0002

Arizona Cotton Research and Protection Council  
3721 E. Wier Avenue  
Phoenix, Arizona 85040

**NET WEIGHT: 50 lb. bags or variable weight bulk bags 1,000 to 3,000 lb**

**PRECAUTIONARY STATEMENTS**

HAZARD TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Harmful if inhaled or absorbed through skin. Avoid breathing dust. Causes moderate eye irritation. Avoid contact with eyes, skin 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. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear: protective eyewear, a NIOSH approved particulate respirator with any N, R, or P filter with NIOSH approval number prefix TC-84A; or a NIOSH approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C (repeated exposure to high concentrations of microbial proteins can cause allergic sensitization), long-sleeved shirt and long pants, waterproof gloves, shoes and socks.

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

#### USER SAFETY RECOMMENDATIONS

Users should:

- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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

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.

#### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This labeling and all other product labeling authorizing the desired application must be in the possession of the user at the time of application. 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 State or Tribal agency responsible for pesticide regulation.

Read all label directions before using.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and the Worker 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 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.

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: protective eyewear, a NIOSH approved particulate respirator with any N, R, or P filter with NIOSH approval number prefix TC-84A; or a NIOSH approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C, coveralls, waterproof gloves, shoes and socks.

#### PRODUCT INFORMATION

***Aspergillus flavus* AF36 Prevail** is for application to cotton and corn to displace aflatoxin-producing strains of *Aspergillus flavus*. ***Aspergillus flavus* AF36 Prevail** contains a fungus, *Aspergillus flavus*, that displaces aflatoxin-producing fungi within the crop environment. ***Aspergillus flavus* AF36** has been shown to reduce aflatoxin both in laboratory studies and commercial field studies. ***Aspergillus flavus* AF36** is a living fungus growing on grain, which serves as both a carrier and a nutrient source. After application and once the colonized grain is exposed to sufficient moisture (this may occur at irrigation), ***Aspergillus flavus* AF36** will grow out and the grain will be covered with green spores. This growing fungus will first appear as white fuzz and later as green fuzz. The green spores will eventually be spread to the crop by wind and insects in the same manner that aflatoxin-producing fungi are spread.

#### USE PRECAUTIONS

Do not apply as a tank mixture with fertilizers, insecticides, or fungicides. Apply ***Aspergillus flavus* AF36 Prevail** only when the potential for drift to adjacent, sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, nontarget crops on surrounding farms) is minimal. ***Aspergillus flavus* AF36 Prevail** may be applied to the approved crops that are irrigated.

## APPLICATION INSTRUCTIONS

### Ground Application: **COTTON**

1. Apply ***Aspergillus flavus* AF36 Prevail** to the surface of the soil under the plant canopy with a tractor-mounted, granular applicator. DO NOT COVER THE APPLIED PRODUCT WITH SOIL.
2. Adjust the applicator to optimize delivery of ***Aspergillus flavus* AF36 Prevail** under the canopy and to minimize delivery of ***Aspergillus flavus* AF36 Prevail** to furrows.
3. ***Aspergillus flavus* AF36 Prevail** has been shown to be effective when applied from late May through June, prior to first bloom. Make a single application during the last cultivation before bloom.
4. Furrow irrigating the crop with at least 2 inches of water within 3 days after application of ***Aspergillus flavus* AF36 Prevail** will provide best results.
5. Use 10 lbs of ***Aspergillus flavus* AF36 Prevail** per acre of cotton (per 13,000 linear feet based on 40-inch rows).

### Ground Application: **CORN**

1. Apply ***Aspergillus Flavus* AF36 Prevail** directly to the soil or under the plant canopy after last cultivation with a tractor-mounted, granular applicator. Make a single application from the V7 growth stage until emergence of the silks from the husk. Cultivation must be completed before application. DO NOT COVER THE APPLIED PRODUCT WITH SOIL.
2. Adjust the applicator to optimize delivery of ***Aspergillus Flavus* AF36 Prevail** under the canopy and to minimize delivery of ***Aspergillus Flavus* AF36 Prevail** to areas without corn.
3. Rain or irrigation within 3 days of application of ***Aspergillus Flavus* AF36 Prevail** will improve results.
4. Use 10 lbs of ***Aspergillus Flavus* AF36 Prevail** per acre of corn (per 13,000 linear feet based on 40-inch rows).

### Aerial Application: **COTTON, CORN**

1. Apply by air at the appropriate rate, timing, and frequency as described for ground applications.
2. Cultivation after application may diminish efficacy.
3. Rain or irrigation within 3 days after application of ***Aspergillus Flavus* AF36 Prevail** will improve results.

## STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.

**PESTICIDE STORAGE:** Store dry. Do not expose to relative humidity greater than 80% prior to use. This product contains a living organism that must be alive to work. Do not store under extreme conditions. Do not freeze. Do not expose to temperatures above 50° C (122° F).

**PESTICIDE DISPOSAL:** To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

### **CONTAINER HANDLING:**

Paper Bags (50 lb.) – Nonrefillable container. Do not reuse or refill 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, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Returnable/Refillable Bulk Bags and Boxes (1000-3000 lb.) - Refillable container. Refill this container with *Aspergillus flavus* AF36 Prevail only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, completely empty bag (or box) into application equipment. Return empty container to point of purchase, offer for recycling if available, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

## WARRANTY STATEMENT

To the extent consistent with applicable law, user assumes all risks of use, storage, and handling of this material not in accordance with directions provided on this label.