

U.S. ENVIRONMENTAL PROTECTION AGENCY

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

NOTICE OF PESTICIDE:

X Registration
Reregistration
(under FIFRA, as amended)

EPA Reg. Number:	Date of Issuance:		
81598-23	9/7/23		
Term of Issuance:			
Unconditional			
Nama of Posticida Product			

Albaugh Quizalofop-p-Ethyl

Technical

Name and Address of Registrant (include ZIP Code):

Albaugh, LLC 1525 NE 36th Street Ankeny, IA 50021

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 (FIFRA).

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 unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

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

Continues page 2

Signature of Approving Official:	Date:
Shaja B. Joyner, Product Manager 20 Fungicide-Herbicide Branch Registration Division 7505T	9/7/23

EPA Form 8570-6

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- 2. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 81598-23."
- 3. This product registration and the registered new use of quizalofop-P-ethyl on wheat containing the QPE-resistant AXigen trait will **automatically expire on March 1, 2030**, unless the Agency amends this condition otherwise.
- 4. You must develop and follow an Herbicide Resistance Management Plan as described in Appendix A.
- 5. You must submit annual reports to the Agency by January 15th of each year beginning in 2024, as outlined in Appendix A Section D, "Reporting Component," until the Agency amends this condition otherwise.
- 6. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency 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.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

The record for this product currently contains the following CSF(s):

- Basic CSF dated 09/26/2022
- Alternate CSF 1 dated 09/26/2022

If you have any questions, please contact Jennifer Drobish at 202-566-2642 or at Drobish.jennifer@epa.gov.

Enclosure

Appendix A – Herbicide Resistance Management Plan and Reporting Requirements for Use of Quizalofop-P-ethyl on AXigen Wheat

APPENDIX A

Herbicide Resistance Management Plan and Reporting Requirements for Use of Quizalofop-P-ethyl on AXigen Wheat

Albaugh, LLC ("Albaugh") must comply with the following:

A. Educational Component

1. Develop and implement an education program for users of this product that identifies appropriate best management practices (BMPs) to avoid and control weed resistance, and convey to users the importance of following BMPs.

The following are examples of BMPs:

Crop selection and cultural practices

- Understand the biology of the weeds present.
- Use a diversified approach towards weed management focused on preventing weed-seed production and reducing the number of weed seeds in the soil seed-bank.
- Emphasize cultural practices that suppress weeds by using crop competitiveness.
- Plant into weed-free fields, keep fields as weed-free as possible, and note areas where weeds were a problem in prior seasons.
- Incorporate additional weed-control practices whenever possible, such as mechanical cultivation, biological management practices, crop rotation, and weed-free crop seeds, as part of an integrated weed-control program.
- Do not allow weed escapes to produce seeds, roots, or tubers.
- Manage weed seed at harvest and post-harvest to prevent a buildup of the weed seed-bank.
- Prevent field-to-field and within-field movement of weed seed or vegetative propagules.
- Thoroughly clean plant residues from equipment before leaving fields.
- Prevent an influx of weeds into the field by managing field borders.
- Fields should be scouted before application to ensure herbicide and application rates will be appropriate for the weed species and weed sizes present.
- Fields should be scouted after application to confirm herbicide effectiveness and to detect weed escapes.
- If resistance is suspected, treat weed escapes with a different mechanism-of-action herbicide or use non-chemical methods to remove weed escapes.

Herbicide selection

- Use a broad spectrum soil-applied herbicide with a mechanism of action that differs from this product as a foundation in a weed control program.
- A broad-spectrum weed-control program should consider all of the weeds present in the field. Weeds should be identified through scouting and field history.
- Difficult-to-control weeds may require sequential applications of herbicides with alternative mechanisms of action.

- Fields with difficult-to-control weeds should be rotated to crops that allow the use of herbicides with alternative mechanisms of action.
- Apply full rates of this herbicide for the most difficult to control weeds in the field.
 Applications should be made when weeds are at the correct size to minimize weed escapes.
- Do not use more than two applications of this herbicide or any herbicide with the same mechanism of action within a single growing season unless mixed with another mechanism of action herbicide with overlapping spectrum for the difficult to control weeds.
- Report any incidence of non-performance of this product against a particular weed species to Albaugh or its representatives.
- 2. Include at least one written communication to users of this product each year regarding herbicide-resistance management.
- 3. Provide a copy of the education materials to EPA upon request.

B. Field Detection and Remediation Components

1. If any user informs Albaugh or its representatives of a lack of herbicide efficacy in a weed species listed on product labeling, then Albaugh or its representatives must make an effort to evaluate the field for suspected resistance to this product by applying the criteria below, as set forth in Norsworthy, *et al.*, "Reducing the Risks of Herbicide Resistance: Best Management Practices and Recommendations" Weed Science 2012 Special Issue: 31-62;

Criteria for Determining Suspected Herbicide Resistance

- 1) Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; and/or
- 2) A spreading patch of non-controlled plants of a particular weed species; and/or
- 3) Surviving plants mixed with controlled individuals of the same species.
- 2. If one or more of the above criteria are met, then:
 - a. Provide the user with specific information and recommendations to control and contain suspect weeds, including re-treatment and/or other non-chemical controls, as appropriate. If requested by the user, Albaugh will become actively involved in implementation of weed control measures.
 - b. Request, at the time of the initial determination that one or more of the above criteria are met and prior to any application of alternative control practices, that the user provide access to the relevant field(s) to collect specimens of the suspect weeds (potted specimens or seeds) for potential further evaluation in the greenhouse or laboratory, and to collect such specimens if possible (or, alternatively, request that the user provide such specimens to Albaugh at Albaugh's expense).

- c. Conduct greenhouse or laboratory studies to confirm resistance as soon as practicable following sample collection, if technically feasible.
- d. To the extent possible, contact or visit the user in an appropriate timeframe after implementation of the additional weed control measures in order to evaluate success of such measures.
- e. If the additional weed control measures were not successful in controlling the suspected-resistant weeds, then:
 - i. Work with the user to determine the reason(s) why the additional control measures were unsuccessful;
 - ii. Offer to provide technical expertise on how to control and contain the suspected-resistant weeds, including re-treatment and/or other non-chemical controls, as appropriate; and
 - iii. Report annually the inability to control the suspected-resistant weeds to relevant stakeholders.
- 3. Keep records of all field evaluations for suspected resistance for a minimum of three years, and provide a copy to EPA upon request.

C. Evaluation Component

- 1. Conduct annual surveys to determine whether users have encountered any perceived issues with non-performance or lack of efficacy of this product, and if so, how users have responded. This survey must be based on a statistically-representative sample of users. The sample size and geographical resolution should be adequate to allow analysis of responses within regions, between regions, and across the United States.
- 2. Analyze the survey results each year, and modify the following for the upcoming growing season, as appropriate:
 - a. Efforts aimed at achieving compliance with BMPs;
 - b. Responses to incidents of suspected weed resistance and confirmed weed resistance; and
 - c. The education program. At the initiative of either EPA or Albaugh, both parties shall consult about possible modifications to the education program.

D. Reporting Component

- 1. Submit reports to EPA by January 15th of each year, beginning in 2024, with information on:
 - a. Annual sales of this product by state;

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- b. Annual sales of wheat seed containing AXigen trait by state;
- c. The current education program. The first report shall include the current education program and its associated materials. Subsequent annual reports shall include updates of any aspect of the education program and associated materials that have materially changed since submission of the previous annual report;
- d. Summary of efforts aimed at achieving compliance with the BMPs;
- e. Investigation and remediation of cases on suspected-resistant weeds. Summary of determinations as to whether any reported lack of herbicide efficacy was due to suspected-resistance, any follow-up actions taken, and if available, the final outcome (e.g., evaluation of success of additional weed control measures) regarding each case of suspected-resistance. The annual report shall list the cases by county and state;
- f. Summary of the status of any laboratory and greenhouse testing performed by or at the direction of Albaugh, in response to cases of suspected-resistance, performed in the previous year. Data pertaining to such testing need not be included in the annual reports, but such data must be made available to EPA upon request; and
- g. The annual survey, including whether users are implementing herbicide resistance BMPs, and a summary of Albaugh's annual review and any modifications based on the survey results.
- 2. Following submission of the annual report, Albaugh shall meet with EPA at EPA's request in order to evaluate and consider the information contained in the report.

ALBAUGH QUIZALOFOP-P-ETHYL TECHNICAL

FOR MANUFACTURING USE ONLY

ACTIVE INGREDIENT:	
QUIZALOFOP-P-ETHYL* (Ethyl (R)-2-[4-(6-chloroquinoxalin-2-yloxy)phenoxy]propionate)	96.2%
OTHER INGREDIENTS:	3.8%
TOTAL:	100.0%
* CAS No. 100646-51-3	

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID				
IF IN EYES:	• 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.			
	Call a poison control center or doctor for treatment advice.			
IF ON SKIN OR	Take off contaminated clothing.			
CLOTHING:	Rinse skin immediately with plenty of water for 15-20 minutes.			
	Call a poison control center or doctor for treatment advice.			
IF INHALED:	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.			
HOTLINE NUMBER				
Have the product container or label with you when calling a poison control center (888-347-6732) or doctor or				
going for treatment. For 24-hour emergency assistance, chemical spill, leak, fire, exposure, or accident, call				

[Refer to [side][back] panel for additional precautionary statements.]

EPA Reg. No. 81598 EPA Est. No	1525 NE 36th Street	ALBAUGH® your alternative	
NET CONTENTS: gal (L)	Ankeny, IA 50021	, your anomaine	

For Chemical Spill, Leak, Fire, or Exposure Call CHEMTREC (800) 424-9300

ACCEPTED

09/07/2023

Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 04 F00 00

81598-23

CHEMTREC toll free at 1-800-434-9300.

PRECAUTIONARY STATEMENTS HAZARD TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Causes eye irritation. Do not get in eyes, on skin or on clothing. Avoid inhaling dust. 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.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. **DO NOT** discharge effluent containing this product into lakes streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. **DO NO** discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA. **DO NOT** contaminate water when disposing of equipment washwaters.

DIRECTIONS FOR USE

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

Only for formulation into herbicides for the following uses:

- 1) CoAxium wheat varieties with the AXigen trait.
- 2) Uses for which USEPA has accepted the required data and/or citations of data that the formulator has submitted in support of registration.
- 3) Uses for experimental purposes that are in compliance with USEPA requirements.

Each formulator is responsible for obtaining EPA registration for their own end use products.

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE:

Store in original containers only. **DO NOT** contaminate water, other pesticides, fertilizer, food or feed in storage. In case of a spill, avoid contact, isolate and keep out animals and unprotected persons. Confine spills. Call CHEMTREC (Transportation and Spills): 800-424-9300.

To confine spill: Dike surrounding area or absorb with sand, cat litter, or commercial clay. Place damaged package in a holding container. Identify contents.

PESTICIDE DISPOSAL:

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

CONTAINER HANDLING: Non-refillable container.

[BAGS: **DO NOT** reuse or refill this container. After bag has been emptied, 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.]

[SUPERSACK BAGS: **DO NOT** reuse or refill this container. Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into manufacturing equipment. Then dispose of inner liner in sanitary landfill or by incineration if allowed by State and local authorities. If outer bag is contaminated and cannot be reused, dispose of in the same manner, or offer outer bag for recycling, if available.]

[PLASTIC TOTES/DRUMS: **DO NOT** reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple Rinse as follows: Empty 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, if allowed by state and local authorities, by burning. If burned, stay out of smoke.]

CONDITIONS OF SALE, WARRANTY DISCLAIMER & LIMITATION OF LIABILITY

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The DIRECTIONS FOR USE of this product are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of ALBAUGH, LLC or the Seller. All such risks shall be assumed by the Buyer. WITHOUT LIMITATION, THE BUYER SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

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