FIFRA Section 24(c) Special Local Need Label

FOR DISTRIBUTION AND USE ONLY WITHIN THE STATE OF OREGON

Quinstar® 4L

Herbicide

EPA Reg. No. 42750-169

EPA SLN No. OR-200011

For post-emergence weed control in non-bearing filberts (hazelnuts) only

This SLN label is valid until December 31, 2025 or until otherwise amended, withdrawn, canceled, or suspended.

ACTIVE INGREDIENT:	
Quinclorac: 3,7-dichloro-8-quinolinecarboxylic acid.....	40.0%
OTHER INGREDIENTS:.....	60.0%
TOTAL:.....	100.0%

Contains 3.8 pounds of quinclorac per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

ENVIRONMENTAL HAZARDS

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Keep out of lakes, ponds and streams. Do not apply directly to water, areas where surface water is present, or to intertidal areas below the mean high water mark, except as specified on this label for use in rice. Do not contaminate water by cleaning of equipment or disposal of rinsate.

DIRECTIONS FOR USE

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

This Special Local Need (SLN) label and the federal label for this product must be in the possession of the user at the time of application.

Read this SLN labeling and the entire label affixed to the product container before applying.

Follow all applicable directions, restrictions, Worker Protection Standard requirements, and precautions on the label affixed to the product container, and on this SLN labeling.

POST-EMERGENCE WEED CONTROL IN NON-BEARING FILBERTS (HAZELNUTS)

For post-emergence weed control in non-bearing hazelnuts only to control field bindweed, hedge bindweed, barnyard grass, Canada thistle (suppression only), and large crabgrass.

SPRAY MIXTURE PREPARATION:

Use a minimum of 10 gallons of water per acre. Add one-half the required amount of water to the spray tank, then add this product with agitation, then add any tank mix partners and finally, add the balance of the water with continued agitation. Add crop oil concentrate at 1% v/v (2 pints / acre) in the spray mixture.

APPLICATION INSTRUCTIONS:

Mix 12.6 fl. oz. of Quinstar 4L (0.375 lbs quinclorac) per acre treated. For best performance, apply in the spring when field bindweed shoots are a few inches long. For best long-term bindweed control, make yearly applications of Quinstar 4L in the fall. Apply as a banded, soil application on each side of the hazelnut rows. Quinstar 4L can be applied to the tree base, but it does not control hazelnut suckers. Apply by ground application equipment only.

RESTRICTIONS & LIMITATIONS:

DO NOT apply more than 12.6 fl. oz. of Quinstar 4L (0.375 lbs quinclorac) per acre per application.

DO NOT apply more than 25.2 fl. oz. of Quinstar 4L (0.75 lbs quinclorac) per acre per year.

DO NOT make more than 2 applications per year.

DO NOT make a second application within 30 days after first application.

DO NOT apply by ground when wind speed is greater than 10 mph.

DO NOT apply by air.

DO NOT apply through any type of irrigation equipment (i.e., chemigation).

DO NOT allow livestock to graze in treated areas.

DO NOT harvest hazelnuts treated under this SLN registration for at least 1 year (365 days), starting from the date the product was last applied.

NOTICE

Read the "CONDITIONS OF SALE AND WARRANTY in the label booklet for this product before using this product. Those terms apply to this SLN labeling and if those terms are not acceptable, return the product unopened at once.

Section 24(c) Registrant:
Albaugh, LLC
1525 NE 36th Street
Ankeny, Iowa 50021

Oregon
Kate Brown, Governor

Department of Agriculture
635 Capitol St NE
Salem, OR 97301-2532

July 01, 2020

Document Processing Desk (SLN)
Office of Pesticide Programs – 7504P
U.S. Environmental Protection Agency
1200 Pennsylvania Ave. NW
Washington, DC 20460-0001

RE: **New Special Local Need Registration**
Albaugh, LLC / Quinstar® 4L (ABN for Quinclorac 4L AG; a.i. quinclorac)
EPA Reg. No. 42750-169, **EPA SLN No. OR-200011**
Site: Filberts (hazelnuts), non-bearing only

The Oregon Department of Agriculture (ODA) has approved SLN No. OR-200011, a Special Local Need registration under FIFRA Section 24(c), to allow use of the Albaugh, LLC product Quinstar® 4L, EPA Reg. No. 42750-169, for control of field bindweed and other weeds in hazelnuts (non-bearing only) grown in Oregon. The label and completed EPA Form 8570-25 for this SLN are enclosed.

Oregon produces more than 99% of the total U.S. hazelnut crop. In a letter of support for this SLN registration, Michelle Armstrong of the Oregon Hazelnut Commission states that there are now more than 89,000 acres of hazelnuts planted in the state. The acreage in production has more than doubled in the last 10-15 years, as new varieties that are resistant to eastern filbert blight (EFB) have become commercially available. As the industry has been rapidly expanding during recent years and older EFB-infected trees are replaced, several thousands of acres of new orchards are being planted each year. It typically takes about four (4) years or more after an orchard is planted before it is bearing a harvestable crop.

According to the Hazelnut Commission and Dr. Marcelo Moretti, Oregon State University (OSU) Extension Weed Management professor, the management of perennial weeds such as field bindweed is one of the most challenging problems faced in orchard crops. If left uncontrolled, field bindweed can quickly overgrow young plants, such as newly planted hazelnut trees. Selective and systemic herbicides are the most effective tools for managing perennial weeds such as bindweed, but hazelnut growers have limited options available. Essentially, their options are limited to 2,4-D and glyphosate products.

Glyphosate use is restricted in hazelnut orchards during the season because of crop injury concerns; spot-spraying is widely practiced, but is time-consuming and not very effective and may only be used to treat weeds away from the trees to avoid crop injury. Efficacy of 2,4-D against bindweed is also limited, and concerns with volatilization and drift may also restrict its use to only short periods during the season. Meanwhile, contact herbicides registered for use on hazelnuts, such as glufosinate, carfentrazone, saflufenacil, and paraquat, provide only transient removal of the treated foliage, with negligible impact on survival of the weed plants.

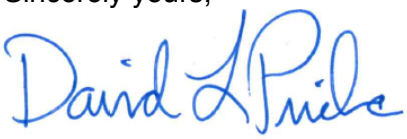
Albaugh, LLC applied for this SLN registration for use of Quinstar® 4L on hazelnuts to address the growers' special local need for an effective product for controlling field bindweed and other weeds growing on the orchard floor and in close proximity to the newly planted and young hazelnut trees during the growing season, without crop injury concerns.

Dr. Moretti has been evaluating quinclorac and other herbicides in long-term field trials conducted in several different young/non-bearing orchards and across multiple hazelnut varieties and trees ranging from one to four years old. The results of these studies thus far (two years in) strongly indicate that the young hazelnut trees are very tolerant of quinclorac. No crop injury or negative impacts to the trees has been observed from quinclorac applied at rates up to 1.5 lb. active ingredient per acre. By comparison, Dr. Moretti's studies in other crops in this growing region demonstrate excellent control of field bindweed at rates of 0.375 lb. a.i. per acre (12.6 fl. oz. Quinstar® 4L per acre), which is the application rate provided by this SLN registration.

No residue tolerances have been established to support food-use applications of quinclorac on hazelnuts (Dr. Moretti currently is pursuing quinclorac/hazelnut [Crop Group 14-12, Tree Nut Group] residue studies with the IR-4 Project). Therefore, use under this SLN registration is limited to non-bearing hazelnuts only.

Please do not hesitate to contact me if you have any questions about this SLN.

Sincerely yours,



David L. Priebe
State Registration Specialist
Pesticides Program
Oregon Department of Agriculture
Phone: (503)986-4656
Email: dpriebe@oda.state.or.us

enclosures: EPA Form 8570-25
EPA SLN No. OR-200011 label

cc: Nathan Ehresman, Albaugh, LLC
Jamie Yanes, Albaugh, LLC
Marcelo Moretti, Oregon State University
Michelle Armstrong, Oregon Hazelnut Commission
Steve Foss, Washington State Department of Agriculture
Sherman Takatori, Idaho State Department of Agriculture
Rose Kachadoorian, Pesticides Program Manager, ODA
Wendy Sue Wheeler, PICOL