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State of Hawai'i
Department of Agriculture
Plant Industry Division
Pesticide Branch

October 2, 2024

TO: Advisory Committee on Pesticides

FROM: Greg Takeshima
Pesticides Program Manager

SUBJECT: Proposed Amendment to List of State Restricted Use Pesticides to Include New Active Ingredient, Quinclorac

PROCEDURAL BACKGROUND:

Sometime in 1998-9, BASF submitted one product license application to the Hawai'i Department of Agriculture, Pesticides Branch containing the new active ingredient Quinclorac. This active ingredient was new to the State of Hawai'i and subject to a full groundwater review which was conducted by Chittaranjan Ray and his team at the University of Hawai'i. The results of the review and other environmental fate data indicated that this chemical would potentially leach into groundwater and the Branch would designate the active ingredient as restricted use in Hawai'i.

Since then, various registrants submitted product license applications with the active ingredient Quinclorac. A preliminary groundwater review was re-done by Branch staff in 2010 with the outcome resulting in the need for a full groundwater review. There was no indication that a new full groundwater review would differ from the initial 1999 study conducted for BASF's application so the registrants were notified that the Branch will designate the active ingredient as restricted use in Hawai'i.

ACTIVE INGREDIENT BACKGROUND:

Quinclorac is a systemic herbicide that is federally registered for use on ornamental turf, conservation land, pastures, rice, sorghum, bushberries, institutional premises, rights of ways, and airports. Application methods consist of foliar spray, soil treatment, and chemigation.



The preliminary environmental fate data submitted by BASF and the wide range of uses for this chemical triggered a full groundwater review to determine leachability in Hawai‘i’s soils and a full groundwater data package was requested from the registrant. After review of the persistence and mobility characteristics of this chemical, it was determined that there is likelihood of leaching to groundwater.

AUTHORITY:

Pursuant to section 149A-19(a), *Hawaii Revised Statutes* (“HRS”), the board...shall adopt rules to: (1) Determine the pesticides that are highly toxic to humans, designate pesticides as restricted use or non-restricted use, and establish a system of control over the distribution and use of certain pesticides and devices purchased by the consuming public...” The Hawaii Administrative Rules (HAR) Section 4-66-32 outlines the procedures to designate a pesticide or its use as restricted use if its uses can be reasonably be anticipated to result in groundwater contamination.

RECOMMENDATION:

To date, there are 64 federally registered products containing Quinclorac registered under Winfield Solutions, LLC, Nufarm Americas, Inc., Harrell’s, LLC, and others. There are no state registered products containing Quinclorac.

Based on the environmental fate data provided, the broad range of uses of the products, and the full groundwater review, it is recommended that Quinclorac be added to the State Department’s list of state restricted pesticides referenced in section 4-66-32(g), HAR.

It is respectfully requested that the Advisory Committee recommend restriction of Quinclorac to the Board of Agriculture as set forth above.

ATTACHMENTS:

Attachment A: Preliminary groundwater review completed by Pesticides Branch

Attachment B: Full groundwater review completed by UH

Attachment C: Letter to BASF dated 12/23/1999

Attachment D: List of State products with the active ingredient Quinclorac

Attachment E: List of Federal products with the active ingredient Flupyradifurone