

Evaluation Report for Category C, Subcategory 6.3 (URMULE) Application

Application Number: 2010-1340
Application: Category C, subcategory 6.3 (URMULE)
Product: Rim on 10 EC
Registration Number: 28515
Active ingredient (a.i.): Novaluron: 10%
PMRA Document Number : 2257304

Background

Rimon 10 EC has been registered since February 15, 2007. Rimon 10 EC is registered for the control of listed insect pests on various crops. For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to the product label.

Purpose of Application

The purpose of this application was to amend the registration of Rimon 10 EC to include the claim of control of cabbage looper, diamondback moth and imported cabbage worm on Crop Subgroup 5B (leafy Brassica greens). The product is intended for application at a rate of 410-820 mL product/ha with a maximum of 3 applications per year with a 7-10 day interval between applications and a minimum pre-harvest interval of 7 days.

Chemistry Assessment

A chemistry assessment was not required as there was no change to product chemistry.

Health Assessment

A toxicology assessment was not required since there was no change to the formulation.

The use of Rimon 10 EC to control insects on Crop Subgroup 5B (leafy Brassica greens) should not result in increased mixer, loader and applicator exposure over registered uses of the active since the application rate, and method of application fell within that registered for potatoes. The post application exposure from the use of Rimon 10 EC on Crop Subgroup 5B (leafy Brassica greens) was found to be acceptable.

To support the use expansion to Crop Subgroup 5B (leafy Brassica greens), residue data from supervised residue trials conducted in the US and Canada were reviewed, in which mustard greens, the representative crop, were treated with novaluron and harvested at a shorter pre-harvest interval (PHI).

Maximum Residue Limit

The recommendation for a maximum residue limit (MRL) for novaluron in/on Crop Subgroup 5B (leafy Brassica greens) was based on guidance provided in PRO2005-04 (“Guidance for Setting Pesticide Maximum Residue Limits Based on Field Trial Data”). Based on the residue data and the MRL statistical methodology, an MRL to cover residues of novaluron in/on Crop Subgroup 5B (leafy Brassica greens) will be established as shown in Table 1.

Commodity	Application Method/ Total Application Rate (g a.i./ha)	PHI (days)	Residues (ppm)		Currently Established MRL (ppm)	Recommended MRL (ppm)
			Min	Max		
Mustard Greens	Foliar/261-275	3-4	1.39	14.56	--	25 (broccoli raab, bok choy Chinese cabbages, collards, kale, mustard greens, mustard spinach, an rape greens)

Environmental Assessment

There are no outstanding environmental data requirements for the active ingredient, novaluron, and its end-use product, Rimon 10 EC. Spray buffer zones and additional statements were added on the label to mitigate the potential off-target effects on aquatic and terrestrial habitats.

Value Assessment

The use of Rimon 10 EC (novaluron) at a rate range of 410-820 mL product/ha (44-88 g ai/ha) for the control of cabbage looper, diamondback moth and imported cabbage worm on Crop Subgroup 5B (leafy Brassica greens) can be supported based on the submitted efficacy data.

Conclusions

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of Rimon 10 EC to include the claim of control of cabbage looper, diamondback moth and imported cabbage worm on Crop Subgroup 5B (leafy Brassica greens).

MRLs

Following the review of all available data, it was determined that an MRL of 25 ppm for residues of novaluron in/on broccoli raab, bok choy, Chinese cabbages, collards, kale, mustard greens, mustard spinach, and rape greens is considered adequate to cover residues of novaluron in/on

these commodities as a result of this new use. Residues of novaluron in leafy brassica greens (*i.e.* broccoli raab, bok choy, Chinese cabbages, collards, kale, mustard greens, mustard spinach, and rape greens) at the established MRLs will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Reference List

PMRA Document #	Reference
1648914	2007, Novaluron: Magnitude of the residue on Mustard Greens, DACO: 7.2.1,7.4.1,7.4.2
1648911	2008, Final efficacy report, DACO: 10.1
1648912	2008, Efficacy Summary Tables Rimon 10 EC, DACO: 10.2.3.1
1648913	2008, Efficacy data for AAFC 04-022, DACO: 10.2.3.3

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