

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

Application Number: 2011-0957
Application: Category C, subcategory 6.3 (URMULE)
Product: Assure II Herbicide
Registration Number: 25462
Active ingredient (a.i.): Quizalofop P-Ethyl (96 g/L)
PMRA Document Number : 2150839

Background

Assure II Herbicide has been registered since April 22, 1998. Assure II Herbicide is registered for the control labelled weeds on various crops. For specific details of uses, application rates and methods, precautions, restrictions, and personal protective equipment requirements, refer to product label.

Purpose of Application

The purpose of this application was to amend the registration of Assure II Herbicide to include the claim of control of labelled weeds on cantaloupe. The product is intended for an application at a rate of 0.38 – 0.75 L product/ha plus 0.5 % v/v Merge or 0.5% v/v Sure-Mix with a single application per year and a minimum pre-harvest interval of 30 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.

Assure II Herbicide is registered for use on a variety of crops at the proposed rates of 0.38-0.75 L/ha (36-72 g a.i./ha). Since the type of application equipment and the area treated per day are expected to be the same or less for cantaloupes than several of the other crops on the label, then chemical handler exposure is not expected to increase with the addition of cantaloupes to the label. A quantitative risk assessment was conducted for post application re-entry workers as the re-entry activities in cantaloupe differ from those previously assessed. Risk estimates indicate that a 4 day REI is required before re-entry into treated areas to perform scouting, irrigation and hand weeding activities.

To support the use expansion to cantaloupes, residue data from supervised residue trials conducted in Canada were reviewed, in which cantaloupes were treated with quizalofop-p-ethyl and harvested according to label directions.

Maximum Residue Limit

The recommendation for maximum residue limits (MRLs) for quizalofop-p-ethyl and its acid metabolites (all expressed as quizalofop-ethyl) in/on Crop Subgroup 9A (Melon Subgroup) 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, MRLs to cover residues of quizalofop-p-ethyl and its acid metabolites (all expressed as quizalofop-ethyl) in/on Crop Subgroup 9A (Melon Subgroup) will be established as shown in Table 1.

Table 1. Summary of Field Trial Data Used to Establish Maximum Residue Limits (MRLs) for Quizalofop-p-ethyl						
Commodity	Application Method/ Total Application Rate (g a.i./ha)	PHI (days)	Residues (ppm)		Currently Established MRL (ppm)	Recommended MRL (ppm)
			Min	Max		
Cantaloupe s	Broadcast foliar spray/ 71 – 74	26 – 29	<0.05	0.052	None	0.06 Crop Subgroup 9A (Melon Subgroup)

Environmental Assessment

An environmental assessment was not required since the application rate, number and frequency of applications and method of application for the control of grassy weeds on Cantaloupe fell within that registered for other crops.

Value Assessment

Data were provided to support the tolerance of cantaloupe to an application of Assure II Herbicide. Assure II Herbicide was applied at 72 and 144 g a.i./ha (maximum 1x and 2x rates) plus Sure-Mix at 0.5% v/v. Cantaloupe showed no visible signs of injury and yield was not impacted. The data provided support the use of Assure II Herbicide on cantaloupe.

Conclusions

The PMRA has completed an evaluation of the subject application and has found the information sufficient to amend the registration of Assure II Herbicide to include the claim of control of labelled weeds on cantaloupe.

MRLs

Following the review of all available data, it was determined that MRLs of 0.06 ppm for residues of quizalofop-p-ethyl and its acid metabolites (all expressed as quizalofop-ethyl) in/on Crop Subgroup 9A (Melon Subgroup) is considered adequate to cover residues of quizalofop-p-ethyl and its acid metabolites (all expressed as quizalofop-ethyl) in/on this commodity as a result of this new use. Residues of quizalofop-p-ethyl and its acid metabolites (all expressed as quizalofop-ethyl) in Crop Subgroup 9A (Melon Subgroup) 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 Number	Reference
1891355	2010, Value Report - Assure II on cantaloupe, DACO: 10.1
1891356	2009, Value summary tables - Assure II on cantaloupe, DACO: 10.3.1
1891357	Field trial reports - Assure II on cantaloupe, DACO: 10.3.2
1891358	2010, Residue report - Quizalofop-p-ethyl: Magnitude of the Residue on Cantaloupe, DACO: 7.4.1

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