

Evaluation Report for Category B, Subcategory 5.0 Application

Application Number: 2012-1615
Application: B.5.0 (New MRL for a Previously Assessed TGAI)
Product: Quizalofop P-Ethyl Technical Herbicide
Registration Number: 25461
Active ingredients (a.i.): Quizalofop P-Ethyl
PMRA Document Number: **2215264**

Purpose of Application

The purpose of this application was to establish maximum residue limits (MRLs) for quizalofop P-ethyl in/on imported Crop Subgroup 20A rapeseed commodities, except flaxseeds (i.e., borage, crambe, cuphea, echium, gold of pleasure, hare's ear mustard, lesquerella, lunaria, meadowfoam, milkweed, mustard seed, oil radish, poppy seed, rapeseed, sesame and sweet rocket).

Chemistry, Environmental, Value Assessments

Chemistry, environmental and value assessments were not required for this application.

Health Assessments

No new data were submitted to support the establishment of MRLs on imported commodities of Crop Subgroup 20A (Rapeseed; Revised), except flaxseeds. Previously reviewed residue trial data for quizalofop-P-ethyl and quizalofop-ethyl in/on canola were reassessed in support of this petition. In addition, a processing study in treated canola was also provided and assessed to determine the potential for concentration of residues of quizalofop-P-ethyl into processed commodities.

Maximum Residue Limits

The recommendation for the maximum residue limits (MRLs) for quizalofop-ethyl, including the acid metabolites, all expressed as quizalofop-ethyl, was based on the residues observed in canola commodities treated according to registered US label directions and at exaggerated rates from the previously reviewed US field trials. MRLs to cover residues of quizalofop-ethyl, including the acid metabolites, all expressed as quizalofop-ethyl, in/on commodities of Crop Subgroup 20A (Rapeseed; Revised), except flaxseeds, are proposed as shown in Table 1. Residues in processed commodities not listed in Table 1 are covered under the recommended MRL for the raw agricultural commodity (RAC).

TABLE 1. Summary of Field Trial and Processing Data Used to Establish the Maximum Residue Limits (MRLs).

Commodity	Application Method/Total Application Rate (g a.i./ha)	PHI (days)	Quizalofop-ethyl acid (ppm)		Experimental Processing Factor	Currently established MRLs	Recommended MRLs (ppm)
			Min	Max			
Canola	Foliar/ 105-210	43-60	<0.05	1.5	Residues of quizalofop-P-ethyl did not concentrate in refined canola oil (Processing factor = 0.11)	0.05 ppm in/on rapeseeds (canola) and mustard seeds (oilseed type)	1.5 in/on Crop Subgroup 20A (Rapeseed; Revised), except flaxseeds ²

¹All residues were reported in the study as YE-945 (the ethyl acid). These values were converted to quizalofop-ethyl equivalents using a molecular weight conversion factor of 1.08. The MRL was determined from the mean of side-by-side dependent trials calculated from the converted values.

²The established MRL of 0.05 ppm in/on rapeseeds (canola) and mustard seeds (oilseed type) will be replaced with the MRLs of 1.5 ppm for Crop Subgroup 20A (Rapeseed; Revised), except flaxseeds.

Following the review of all available data, MRLs are recommended to cover residues of quizalofop-ethyl and the acid metabolites in/on all commodities of Crop Subgroup 20 A (Rapeseed; Revised), except flaxseeds. Residues of quizalofop-ethyl and the acid metabolites in these commodities at the established MRLs will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of available information for Quizalofop P-Ethyl Technical Herbicide and has found the information sufficient to support the establishment of MRLs in/on imported Crop Subgroup 20A rapeseed commodities, except flaxseeds, of 1.5 ppm.

References

None.

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