

Evaluation Report for Category B, Subcategory 5.0 Application

Application Number: 2005-4103
Application: Application category B, subcategory 5.0 (import MRLs for registered active ingredients)
Active ingredients (a.i.): Bifenazate miticide
PMRA Document Number: 1521320

Background

Bifenazate is a selective, non-systemic miticide which controls the motile stage of mites either by direct contact or through contact with foliar residues. The petitioner has postulated that bifenazate blocks or closes gamma-aminobutyric acid (GABA) activated chloride channels, thereby causing over-excitation of the peripheral nervous system in susceptible pests.

Purpose of Application

The purpose of this application is to establish maximum residue limits (MRLs) to cover residues of bifenazate in/on imported strawberries following foliar treatment.

Chemistry Assessment

A chemistry assessment was not required for this application since bifenazate technical is already registered.

Health Assessment

A toxicology assessment is not required for applications to establish import MRLs of active ingredients registered in Canada.

To support the establishment of import maximum residue limits (MRLs) on strawberries, residue data from field trials conducted in the US and Canada were reviewed. Strawberry crop field trials were carried out at the US label rate of 1.12 kg a.i./ha/season (2X 0.56 kg a.i./ha/application) and harvested 1 day after treatment

MRL Recommendations

Recommendations for MRLs for bifenazate in/on imported strawberry were 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, maximum residue limits (MRLs) to cover residues of bifenazate in/on imported crops and processed commodities will be established as shown in Table 1. Residues of bifenazate in processed commodities not listed in Table 1 are covered under established MRLs for the raw agricultural commodity(ies) (RACs).

Table 1. Summary of Field Trial and Processing Data Used to Establish Maximum Residue Limit(s) (MRLs)							
Commodity	Application Method/ Total Application Rate (g a.i./ha)	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL	Recommended MRL
			Min	Max			
Strawberry	Foliar treatment 1.12 kg a.i./ha/season	1	0.29	1.10	--	none	1.5 ppm

Environmental and Value Assessments

Environmental and value assessments are not required for applications to establish import MRLs.

Conclusions

Following the review of all available data, an MRL of 1.5 ppm for imported strawberry is recommended. Residues of bifenazate in imported crops at the recommended MRLs will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

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