



Evaluation Report for Category B, Subcategory 5.0 Application

Application Number: 2007-2290
Application: New MRL for previously assessed TGAI
Product: Fenbuconazole Technical Fungicide
Registration Number: 27293
Active ingredients (a.i.): Fenbuconazole
PMRA Document Number: 1776682

Purpose of Application

The purpose of the application was to establish Maximum Residue Limits (MRLs) on various imported commodities including almond, apple, blueberry, citrus, cranberry, peanut and related processed commodities.

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

Health Assessments

Residue data from field trials conducted in the major growing regions of the US were reviewed for almond, apple, blueberry, orange, lemon, grapefruit, cranberry and peanut. In addition, processing studies in treated apples, oranges, grapefruits and peanuts were reviewed to determine the potential for concentration of residues of fenbuconazole in processed commodities.

- **MRL Recommendations**

Based on the residue data, MRLs to cover residues of fenbuconazole in/on the above described imported crops and processed commodities will be established as shown in Table 1. Residues of fenbuconazole in processed commodities not listed in Table 1 are covered under established MRLs for the raw agricultural commodities (RACs).

Commodity	Application Method/ Total Application Rate (g a.i./ha)	PHI ¹ (days)	Residues (ppm) ²		Experimental Processing Factor	Currently Established MRL ³	Recommended MRL ⁴
			Min	Max			
Almond	foliar application/ 672	152-200	0.03	0.03	--	none	0.05 ppm
Apple	foliar application/ 1120-1540	14	0.03	0.31	--	none	0.4 ppm
Blueberry	foliar application/ 525	25-35	0.03	0.24	--	none	0.3 ppm (Bushberry subgroup 13-07B)
Orange	foliar application/ 840	0	0.12	0.76	--	none	1.0 ppm (citrus fruit, Crop Group 10)
Grapefruit	foliar application/ 840	0	0.12	0.51	--	none	
Lemon	foliar application/ 840	0	0.38	1.1	--	none	
Citrus oil	foliar application/ 840	0	0.51	0.68	46X	none	40 ppm
Cranberry	foliar application/ 1050	25-28	0.09	0.49	--	none	0.5 ppm
Peanut	foliar application/ 840-1260	14-15	0.06	0.08	--	none	0.1 ppm

¹Preharvest interval

² Parts per million

³MRL(s) currently established in Health Canada's List of MRLs regulated under PCPA.

⁴MRL(s) to be established as a result of the current submission

Conclusions

Following the review of all available data, MRLs of 0.05 ppm for imported almonds, 0.4 ppm for imported apples, 0.3 ppm for imported bushberries, 1.0 ppm for imported citrus fruit, 40 ppm for imported citrus oil, 0.5 ppm for imported cranberries and 0.1 ppm for imported peanuts are recommended. Residues of fenbuconazole 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.

References

PMRA #	Reference
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1395387	Fenbuconazole: Magnitude of the Residue on Cranberry
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- 1395383 1992, RH-7592 Total Residue Data for Apples RAR 90-0121, 90-0146, 90-0147, 90-0150, 87-0152, 90-0161, 90-0162. Fenbuconazole: Magnitude of the Residue on Blueberry (High Bush), DACO: 7.4.1
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ISSN: 1911-8082

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