

Evaluation Report for Category B, Subcategory 5.0 Application

Application Number: 2018-0413
Application: New Maximum Residue Limits for previous assessed Technical Grade Active Ingredient
Product: Fenpyroximate Technical
Registration Number: 32244
Active ingredient (a.i.): Fenpyroximate
PMRA Document Number: 2960073

Purpose of Application

The purpose of this application was to revise the maximum residue limits (MRLs) of Fenpyroximate Technical for Citrus Fruit Crop Group (CG 10R) and Citrus Oil.

Chemistry, Value and Environmental Assessments

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

Health Assessments

Toxicology and occupational exposure assessments were not required for this application.

Residue data for fenpyroximate in oranges, grapefruits and lemons were submitted to support the revision of the maximum residue limits for citrus fruits (CG10R) and their processed commodities. In addition, a processing study in treated oranges was reassessed to determine the potential for concentration of residues of fenpyroximate into processed commodities.

Maximum Residue Limits

The recommendation for maximum residue limits (MRLs) for fenpyroximate was based upon the submitted field trial data, and the guidance provided in the [OECD MRL Calculator](#). MRLs to cover residues of fenpyroximate and its metabolite M-1 in/on citrus fruits (CG10R) and processed commodities are proposed as shown in Table 1. Residues in processed commodities not listed in Table 1 are covered under the proposed MRLs for the raw agricultural commodities (RACs).

Table 1 Summary of Field Trial and Processing Data Used to Support Maximum Residue Limits (MRLs)

Commodity	Application Method/ Total Application Rate (g ai/ha)	PHI (days)	Residues (ppm)		Experimental Processing Factor		Currently Established MRL (ppm)	Recommended MRL (ppm)
			LAFT ¹	HAFT ¹	Fenpyroximate	M-1		
Orange	Foliar Application / 446-460	2-3	0.068	0.468	Juice: 0.12-fold Oil: 13.1-fold	Juice: 1-fold Oil: 4.4-fold	CG10R: 0.5	CG10R: 1.0
Grapefruit	Foliar Application / 444-455	2-4	<0.064	0.277	Not applicable		Citrus Oil: 10	Citrus Oil: 15
Lemon	Foliar Application / 445-461	3	0.261	0.398	Not applicable			

LAFT = Lowest Average Field Trial; HAFT = Highest Average Field Trial

¹ Combined residues of fenpyroximate and M-1.

Following the review of all available data, MRLs as proposed in Table 1 are recommended to cover total residues of fenpyroximate. Residues in these crop commodities at the proposed 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 Fenpyroximate Technical and has found it sufficient to revise the MRLs for Citrus Fruit Crop Group (CG 10R) and Citrus Oil.

References

PMRA Document Number 2844944	References 2014, Magnitude of the Residue of Fenpyroximate and its Metabolite in/on Citrus Raw Agricultural Commodities Following Two Applications of Fenpyroximate 5EC Miticide/Insecticide, DACO 7.4.1
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