

Evaluation Report for Category B, Subcategory 5.0 Application

Application Number: 2011-4624
Application: New MRL for previously assessed TGAI
Product: Rynaxypyr Technical Insecticide
Registration Number: 28979
Active ingredients (a.i.): Chlorantraniliprole (JIY)
PMRA Document Number : 2177714

Background

Rynaxypyr Technical Insecticide has been registered in Canada since May 1, 2008 for use-site category (USC) 13 and 14 – Terrestrial Feed and Food Crops, and USC 30 – Turf. It contains the technical active ingredient chlorantraniliprole to control a variety of insect pests.

Purpose of Application

The purpose of this application was to establish import maximum residue limits (MRLs) for residues of chlorantraniliprole in/on Citrus Fruits (Crop Group 10) imported into Canada.

Chemistry Environmental and Value Assessments

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

Health Assessments

Residue data for chlorantraniliprole in citrus fruit were submitted to support the establishment of an MRL for Citrus Fruits (Crop Group 10) imported into Canada. In addition, a processing study was also submitted to determine the potential for concentration of residues of chlorantraniliprole into processed commodities.

Maximum Residue Limit(s)

Based on the maximum residues observed in crops treated according to label directions, a maximum residue limit (MRL) of 0.7 ppm in/on Citrus Fruits (Crop Group 10) will be established as shown in Table 1. Residues of chlorantraniliprole in processed commodities not listed in Table 1 are covered under established MRLs for the raw agricultural commodities (RACs).

Table 1. Summary of Field Trial and Processing Data Used to Establish Maximum Residue Limit (MRL)

Commodity	Application Method/ Total Application Rate (g a.i./ha)	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL	Recommended MRL, ppm
			Min	Max			
Orange	Foliar/591-592	7	0.14	0.27	0.09-0.20X	-	0.7
Soft Citrus	Foliar/494-632	7	0.13	0.32	-	-	0.7

Conclusion

Following the review of all available data, an MRL of 0.7 ppm for Citrus Fruit (Crop Group 10) is recommended to cover residues of chlorantraniliprole. Residues of chlorantraniliprole in these crops at the established MRL will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

References

PMRA #	Reference
2109151	2008, Magnitude of Residues of Chlorantraniliprole, Thiamethoxam, CGA322704 and Lambda-Cyhalothrin in Citrus – Brazil 2008 (4 Trials), DACO: 7.4.1
2109153	2009, Chlorantraniliprole Residue Study on Citrus Commodities Conducted in the RSA During the 2008/2009 Growing Season for Support in the Acquisition of an EU Import Tolerance, DACO: 7.4.1,7.4.2
2109157	2010, Chlorantraniliprole Residue Study on Citrus Commodities Conducted in the RSA During the 2009/2010 Growing Season for Support in the Acquisition of an EU Import Tolerance, DACO: 7.4.1,7.4.2
2109159	2010, Magnitude of Chlorantraniliprole Residues in Citrus and Citrus Juice Processed from Citrus Fruit Following the Application of DPX-E2Y45 200 SC in Order to Estimate the Transfer/Processing Factor for Citrus Juice, DACO: 7.4.5

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