

Evaluation Report for Category B, Subcategory 5.0 Application

Application Number: 2014-1807
Application: New MRL for previously assessed TGAI
Product: Fluopyram technical fungicide
Registration Number: 30508
Active ingredients (a.i.): Fluopyram
PMRA Document Number : 2577761

Purpose of Application

The purpose of this application was to establish maximum residue limits (MRLs) to cover fluopyram residues in/on imported commodities of CG 10 (Citrus Fruit), CSG 20C (Cottonseed), sugarcane (rotational) and peanuts.

Chemistry, Environmental and Value Assessments

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

Health Assessments

Residue data for fluopyram from field trials conducted in the United States on orange, lemon, grapefruit, cotton seed, sugarcane and peanuts were submitted to support the maximum residue limits on imported crops. Previously reviewed residue data from field trials conducted on peanuts and cotton seed were reassessed in the framework of this petition.

In addition, processing studies in treated oranges, sugarcane and cotton seed were reviewed, and processing data in treated peanuts and cotton seed were reassessed to determine the potential for concentration of residues of fluopyram into processed commodities.

Maximum Residue Limits

The recommendation for MRLs for fluopyram was based upon the submitted field trial data, and the guidance provided in the [OECD MRL Calculator](#). MRLs to cover residues of fluopyram in/on crops and processed commodities are proposed as shown in Table 1. Residues in processed commodities not listed 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)	Fluopyram Residues (ppm)		Experimental Processing Factor	Currently Established MRL (ppm)	Recommended MRL (ppm)
			LAFT	HAF T			
Orange	Foliar spray /490-513 (concentrated)	6-7	0.031	0.352	Citrus oil (16x)	None	1 (CG 10: Citrus Fruits, Revised); 8 (Citrus oil)
	Foliar spray /494-513 (dilute)	6-7	0.057	0.298			
Lemon	Foliar spray /499-511 (concentrated)	7	0.183	0.479			
	Foliar spray /499-511 (dilute)	7	0.210	0.420			
Grapefruit	Foliar spray /497-511 (concentrated)	6-7	0.045	0.185			
	Foliar spray /497-511 (dilute)	7	0.036	0.166			
Undelinted cotton seed	Seed treatment (72-74 g ai/ha) + in-furrow application at planting (175-182 g ai/ha) + foliar broadcast application (247-259 g ai/ha)	28-31	<0.01	0.465	No concentration was observed in food commodities	0.01 (Undelinted cotton seeds)	0.8 (CSG 20C: Cottonseeds, Revised)
Peanut nutmeat	Seed treatment (250 g ai/ha) + foliar application (250 g ai/ha)	6-10	0.012	0.128	No concentration was observed in food commodities	0.02	0.2 (Peanuts)

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Commodity	Application Method/ Total Application Rate (g ai/ha)	PHI (days)	Fluopyram Residues (ppm)		Experimental Processing Factor	Currently Established MRL (ppm)	Recommended MRL (ppm)
			LAFT	HAFT			
Sugarcane	Application to soil/ 493-506 (Rotational, plantback interval of 13-14 days)	NA	<0.01	0.043	No quantifiable residues were observed at exaggerated rates	None	0.08 (Sugarcane cane)

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

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of the product, Fluopyram technical fungicide, and has found the information sufficient to recommend MRLs as proposed in Table 1 to cover residues of fluopyram. 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.

References

1654377	2008, AE C656948 500 SC - Magnitude of the residue in/on orange processed commodities, DACO: 7.4.5,IIA 6.5.3
1661284	2008, AE C656948 500 SC - Magnitude of the residue in/on orange processed commodities, DACO: 7.4.5,IIA 6.5.3
1661221	2008, AE C656948 500 SC - Magnitude of the residue on citrus (crop group 10), DACO: 7.4.1,7.4.2,7.4.6,IIA 6.3.1
1661252	2008, AE C656948 500 SC - Magnitude of the residue in/on peanuts, DACO: 7.4.1,7.4.2,7.4.6,IIA 6.3.1
2427021	2013, Fluopyram 500 SC and fluopyram 400 SC - Magnitude of the residue in cotton (Amended) - (i-MRL), DACO: 7.4.1,7.4.2,7.4.6,IIA 6.3.2
2427022	2014, Fluopyram 500 SC and fluopyram 400 SC - Magnitude of the residue in/on citrus - Fluopyram 500 SC (short code - 129306) - Fluopyram 400 SC (short code - 151196) (i-MRL), DACO: 7.4.1,7.4.2,7.4.6,IIA 6.3.2
2427023	2013, Fluopyram 500 SC and Fluopyram 400 SC - Magnitude of the residue in/on peanut (i-MRL), DACO: 7.4.1,7.4.2,7.4.6,IIA 6.3.2
2427035	2012, BYI 02960, fenamidone, fluopyram, and spiromesifen - Magnitude of the residue in sugarcane processed commodities in Florida (rotational crop regional tolerance) - (Amended) (i-MRL), DACO: 7.4.5,IIA 6.5.3

2427043	2013, Fluopyram 500 SC and fluopyram 400 SC - Magnitude of the residue in/on cotton processed commodities (i-MRL), DACO: 7.4.5,IIA 6.5.3
2427044	2012, BYI 02960, fenamidone, fluopyram, and spiromesifen - Magnitude of the residue in sugarcane in Florida (rotational crop regional tolerance) (Amended) (i-MRL), DACO: 7.4.4,IIA 6.6.3
2535486	2015, Fluopyram- Proposal to Modify Petition for tolerances-version#4 (final), DACO: 7.1,7.8,IIA 6.7.2
2577848	2015, Fluopyram - Projected Percent Crop Treated - Canada, DACO: 7.1,7.8,IIA 6.7.2

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