



Evaluation Report for Category B, Subcategory 5.0 Application

Application Number: 2019-2962
Application: New Maximum Residue Limits (MRLs) for previously assessed Technical Grade Active Ingredient (TGAI)
Product: Flupyradifurone TC
Registration Number: 31450
Active ingredient (a.i.): Flupyradifurone
PMRA Document Number : 3128436

Purpose of Application

The purpose of this application was to establish MRLs for residues of flupyradifurone in/on various imported commodities, including sesame seeds, pineapples and commodities in Crop Subgroup 20B (Sunflowers, revised), Crop Subgroup 22A (Stalk and stem vegetables) and Crop Subgroup 23C (Tropical and subtropical palm fruits, edible peel).

Health Assessments

Residue data for flupyradifurone in sunflowers, asparagus, dates, pineapples, and sesame seeds were submitted to support the MRLs on imported crops. Previously reviewed residue data from field trials conducted in/on celery, cauliflower, broccoli, cabbage and prickly pears were also reassessed in the framework of this petition. In addition, processing studies in treated sunflowers, pineapples, and sesame were reviewed to determine the potential for concentration of residues of flupyradifurone into processed commodities.

Maximum Residue Limits

The recommendation for MRLs for flupyradifurone was based upon the submitted field trial data, and the guidance provided in the [OECD MRL Calculator](#). MRLs to cover residues of flupyradifurone in/on crops 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 a.i./ha)	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL (ppm)	Recommended MRL (ppm)
			LAF T	HAFT			

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

Commodity	Application Method/ Total Application Rate (g a.i./ha)	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL (ppm)	Recommended MRL (ppm)
			LAF T	HAFT			
Sunflower seed	Foliar / 406-435	7-15	0.014	0.444	Meal: 1.2x Oil: 0.04x	None	0.70 (CSG 20B)
Asparagus	Foliar / 408-424	123-290	<0.01	<0.01	Not applicable	None	0.01 (CSG 22A, except prickly pear pads, Texas prickly pear pads, celtuce, fresh Florence fennel leaves and stalks, kohlrabies)
Prickly pear pad	Foliar / 369-376	20-21	0.204	0.254	Not applicable	0.7 (prickly pear pads)	0.7 (Texas prickly pear pads)
Prickly pear fruit	Foliar / 259-374	20-21	0.068	0.123	Not applicable	0.3 (prickly pears)	0.3 (Texas prickly pears)
Date	Foliar / 409-425	13-15	1.74	3.23	Not applicable	None	8.0 (CSG 23C)
Celery	Foliar / 402-415	1	0.221	5.985	Not applicable	9.0	9.0 (celtuce, fresh Florence fennel leaves and stalks)
Cauliflower	Foliar / 401-415	1-3	0.013	2.425	Not applicable	6.0	6.0 (kohlrabies)
Broccoli			0.370	1.925			
Cabbage			0.077	0.817			
Pineapple	Foliar / 411-425	0	0.046	0.155	No concentration in processed fractions	None	0.30

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			LAF T	HAFT			
Sesame seed	Foliar / 400-415	14-19	0.10	1.08	No concentration in processed fractions	None	3.0

LAF T = Lowest Average Field Trial; HAFT = Highest Average Field Trial

Following the review of all available data, MRLs as proposed in Table 1 are recommended to cover residues of flupyradifurone. 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.

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

Chemistry, Value and Environmental Assessments

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

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to establish for residues of flupyradifurone in/on various imported commodities.

References

PMRA Document Number	Reference
3007518	2018, Flupyradifurone: Magnitude of the residue on sunflower, DACO: 7.4.1,7.4.2,7.4.5
3006351	2018, Flupyradifurone: Magnitude of the residue on asparagus, DACO: 7.4.1
3007516	2018, Flupyradifurone: Magnitude of the residue on date, DACO: 7.4.1,7.4.2
3007517	2019, Flupyradifurone: Magnitude of the residue on pineapple, DACO: 7.4.1,7.4.2,7.4.5
3007519	2019, Flupyradifurone: Magnitude of the residue on sesame, DACO: 7.4.1,7.4.2,7.4.5

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