

## Evaluation Report for Category B, Subcategory 5.0 Application

**Application Number:** 2015-6727  
**Application:** New MRL for previously assessed TGA  
**Product:** Flupyradifurone TC  
**Registration Number:** 31450  
**Active ingredients (a.i.):** Flupyradifurone  
**PMRA Document Number:** 2696456

### Background

The technical grade active ingredient Flupyradifurone TC was first registered in Canada in 2015.

### Purpose of Application

The purpose of this application was to establish maximum residue limits (MRLs) for residues of flupyradifurone in imported commodities (treated kava, quinoa and tropical fruits from the United States).

### Chemistry, Environmental and Value Assessments

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

### Health Assessment

Residue data for flupyradifurone in avocados and pomegranates were submitted to support the maximum residue limits on imported tropical fruits (Crop Subgroup 24B). Previously reviewed residue data from field trials conducted in/on carrots, radishes, mustard greens, wheat and barley were reassessed in the framework of this petition to support the importation of kava (roots and leaves), and quinoa from the United States.

### Maximum Residue Limits

The recommendation for maximum residue limits (MRLs) for flupyradifurone was based upon the submitted field trial data, reassessment of file 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) for Flupyradifurone.**

Commodity	Application Method/Total Application Rate (g ai/ha)	PHI (days)	Flupyradifurone Residues (ppm)		Experimental Processing Factor	Currently Established MRL (ppm)	Recommended MRL (ppm)
			LAFT	HAFT			
Avocados	Foliar/400-410	14	0.040	0.075	NA	NA	0.6
Pomegranates	Foliar/392-432	7-8	0.097	0.175	NA	NA	
Radishes	Foliar/403-421	7	0.024	0.046	NA	0.9 <sup>1</sup>	NA
Carrots	Foliar/400-426	5-7	<0.010	0.538	NA		NA
Mustard greens	Foliar/407-421	1	6.075	24.250	NA	40 <sup>2</sup>	NA
Barley	Foliar/401-417	21-35	0.038	2.255	NA	3.0 <sup>3</sup>	NA
Wheat	Foliar/399-423	21-35	0.017	0.729	NA		NA

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

NA = Not applicable

<sup>1</sup> Data from carrot and radish field trials (CSG1B) will be extended to kava roots

<sup>2</sup> Data from mustard green field trials (CSG4-13B) will be extended to fresh kava leaves

<sup>3</sup> Data from wheat and barley field trials (CG-15) will be extended to quinoa

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.

## Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information sufficient to support the establishment of import MRLs on the above-mentioned commodities for Flupyradifurone TC.

## References

PMRA Document Number	References
2588970	2012, Storage stability of BYI 02960, difluoroacetic acid, and difluoroethyl-amino-furanone in plant matrices, DACO: 7.3
2588969	2015, BYI 02960 200 SL – Magnitude of the residue in/on avocado, DACO: 7.4.1,7.4.2
2588971	2015, BYI 02960: Magnitude of the residue on pomegranate, DACO: 7.4.1,7.4.2
2588972	2015, Flupyradifurone - Extrapolation of field crop residue data on registered foliar uses to Cilantro, Kava, and Quinoa, DACO: 7.8

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