

Evaluation Report for Category B, Subcategory 5.0 Application

Application Number: 2020-2152
Application: New Maximum Residue Limit (MRL) for previously assessed Technical Grade Active Ingredient (TGAI)
Product: Fludioxonil Technical
Registration Number: 28399
Active ingredient (a.i.): Fludioxonil
PMRA Document Number : 3260181

Purpose of Application

The purpose of this application was to revise the established maximum residue limit (MRL) for residues of fludioxonil in/on sugar beet roots.

Chemistry, Environmental and Value Assessments

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

Health Assessments

Residue data for fludioxonil in sugar beets were submitted to support the maximum residue limit on imported sugar beet. In addition, a processing study in treated sugar beet was reviewed to determine the potential for concentration of residues of fludioxonil into processed commodities.

Maximum Residue Limit

The recommendation for a maximum residue limit (MRL) for fludioxonil was based upon the submitted field trial data, and the guidance provided in the [OECD MRL Calculator](#). An MRL to cover residues of fludioxonil in/on sugar beet roots and processed commodities is proposed as shown in Table 1. Residues in processed commodities not listed in Table 1 are covered under the proposed MRL for the raw agricultural commodity (RAC).

TABLE 1. Summary of Field Trial and Processing Data Used to Support the Maximum Residue Limit (MRL)							
Commodity	Application Method/ Total Application Rate (g a.i./2000 lb roots)	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL (ppm)	Recommended MRL (ppm)
			LAF T	HAF T			

TABLE 1. Summary of Field Trial and Processing Data Used to Support the Maximum Residue Limit (MRL)							
Commodity	Application Method/	PHI	Residues (ppm)		Experimental	Currently	Recommended
Sugar beet roots	Post-harvest application/ 3.86-4.26	N/A	0.64	1.9	Molasses: 0.6x Raw Sugar: 0.4x Refined Sugar: 0.1x	0.02	4.0

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

Following the review of all available data, a MRL as proposed in Table 1 is recommended to cover residues of fludioxonil. Residues in this crop commodity at the proposed MRL will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

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

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the available information and has found it sufficient to revise the established MRL for residues of fludioxonil in/on sugar beet roots.

References

PMRA Document Number	References
3126772	2017, Magnitude of the Residues on Sugarbeets and in Sugarbeet Processed Commodities Azoxystrobin + Fludioxonil Residues on Sugarbeets Following Post-Harvest Treatment in 2015, DACO: 7.4.1,7.4.2,7.4.5
2985605	2006, Analytical Method for the Determination of Residues of Fludioxonil (CGA173506) in Crop Matrices. Final Determination by LC-MS/MS, DACO: 7.2.1
3126757	2018, Fludioxonil (CGA173506) - Validation of Analytical Method REM133.06 for the Determination of Residues of Fludioxonil in multiple crops, DACO: 7.2.1

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