

Evaluation Report for Category B, Subcategory 5.0 Application

Application Number: 2016-4658
Application: New maximum residue limit for previously assessed technical grade active ingredient
Product: Benzovindiflupyr Technical
Registration Number: 31520
Active ingredient (a.i.): Benzovindiflupyr
PMRA Document Number : 2799495

Purpose of Application

The purpose of this application was to establish maximum residue limits (MRLs) for benzovindiflupyr in/on sugarcane cane and green coffee beans.

Chemistry, Environmental and Value Assessments

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

Health Assessments

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

Residue data from field trials conducted in the United States were submitted to support the maximum residue limit on imported sugarcane. In addition, a processing study in treated sugarcane was reviewed to determine the potential for concentration of residues of benzovindiflupyr into processed commodities.

No new residue data for benzovindiflupyr in coffee beans were submitted to support the maximum residue limit on imported coffee beans. Previously reviewed residue data from field trials conducted in/on coffee beans were reassessed in the framework of this petition. In addition, a processing study in treated coffee beans was reassessed to determine the potential for concentration of residues of benzovindiflupyr into processed commodities.

The recommendation for maximum residue limits (MRLs) for benzovindiflupyr was based upon the submitted field trial data, and the guidance provided in the [OECD MRL Calculator](#). MRLs to cover residues of benzovindiflupyr in/on sugarcane cane, green coffee beans 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 Limit(s) (MRLs)						
Commodity	Application Method/	PHI	Residues (ppm)	Experimental	Currently	Recommended

	Total Application Rate (g a.i./ha)	(days)	LAF T	HAF T	Processing Factor	Established MRL (ppm)	MRL (ppm)
Sugarcane cane	Foliar broadcast/ 229-245	28-31	<0.01 3	0.208	Molasses: <0.088x Refined sugar: <0.064x	0.04	0.3
Green coffee beans	Foliar broadcast/ 150-180	21	<0.01	0.07	Roasted coffee beans: <0.42x Instant coffee: <0.42x	--	0.09

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

Following the review of all available data, MRLs as proposed in Table 1 are recommended to cover residues of benzovindiflupyr. 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 in support of the MRLs requested, and has found the information sufficient to establish MRLs for benzovindiflupyr in/on sugarcane cane and green coffee beans.

References

PMRA Document Number	References
2686015	2016, Benzovindiflupyr EC (A15457B) and Benzovindiflupyr+Azoxystrobin WG (A18126B) - Magnitude of the Residues in or on Sugarcane Raw Agricultural and Processed Commodities Resulting from Foliar Applications of EC and WG Formulation (USA, 2014), DACO: 7.4.1
2796322	2016, Data Evaluation Record, Benzovindiflupyr: OCSPP 860.1500, Crop Field Trial/Residue Decline - Sugarcane, DACO: 12.5.7
2796327	2016, Data Evaluation Record, Benzovindiflupyr: OCSPP 860.1520, Processed Food/Feed - Sugarcane, DACO: 12.5.7
2255581	2012, A18126 - Magnitude of Residues of SYN545192, its Metabolites, Azoxystrobin and R230310 in Coffee Beans - Brazil, 2010-11, DACO: 7.4.1, 7.4.2, 7.4.6
2255582	2012, A17961 - Magnitude of Residues of SYN545192, its Metabolites,

2255621 Azoxystrobin and R230310 in Coffee Beans - Brazil, 2010-11, DACO: 7.4.1,
7.4.2, 7.4.6
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Azoxystrobin and R230310 in Coffee Beans and its Derivatives - Brazil, 2011-12,
DACO: 7.4.5

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