Health Canada Santé Canada

Evaluation Report for Category B, Subcategory 5.0 Application

Application Number: 2019-0666
Application: New Maximum Residue Limits For Previous Assessed Technical Grade Active Ingredient
Product: Azoxystrobin Technical
Registration Number: 26152
Active ingredients (a.i.): Azoxystrobin
PMRA Document Number: 3099786

Purpose of Application

The purpose of this application was to establish maximum residue limits (MRLs) for imported quinoa and ti palm and to extend established import MRLs additional crops within crop groups.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

Toxicological and occupational assessments were not required for this application.

Residue data for azoxystrobin in barley were submitted to support the maximum residue limit on imported quinoa and previously reviewed residue data from field trials conducted in/on various crops were reassessed in the framework of this petition to support MRLs on various crop groups/subgroups. In addition, processing studies in treated tomatoes, plums and wheat were also reassessed to determine the potential for concentration of residues of azoxystrobin into processed commodities.

Maximum Residue Limits

The recommendation for maximum residue limits (MRLs) for azoxystrobin was based upon the submitted field trial data, and the guidance provided in the OECD MRL Calculator. MRLs to cover residues of azoxystrobin and the Z-isomer 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).

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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)
			LAFT	HAFT			
Mustard green	Foliar / 1700	0	2.68	21.2	Not required	25 (crop subgroup 5B)	25 (mizuna)
Tomato	Foliar / 896	0-1	<0.02	0.16	Paste: 2.6x; No concentration observed in juice or puree	0.2 (tomatoes); 0.6 (tomato paste)	0.2 (bush tomatoes; coconas; currant tomatoes; goji berries; naranjillas; sunberries; tree tomatoes; garden huckleberries)
Almond	Broadcast / 1680	28-29, 43-44	<0.02	<0.02	Not required	0.02 (crop group 14, except pistachios)	0.02 (African tree nuts, Brazilian pine nuts; bunya

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			LAFT	HAFT			
Pecan	Airblast or broadcast / 1344	20-42	<0.02	<0.03	Not required		nuts; bur oak nuts; cajou nuts; candlenuts; coconuts; coquito nuts; dika nuts; gingko nuts; Guiana chestnuts; heartnuts; Japanese horse-chestnuts; mongongo nuts; monkey-pot nuts; okari nuts; pachira nuts; peach palm nuts; pequi nuts; pili nuts; pine nuts; sapucaia nuts; tropical almond nuts; yellowhorn nuts)
Sweet cherry	Foliar / 2240	0	0.21	1.02	Not required	2.0 (crop group 12)	2.0 (Japanese apricots; capulins;
Peach	Foliar / 2240	0	0.23	1.08	Not required		

Commodity	Application Method/ Total Application Rate (g a.i./ha)	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL (ppm)	Recommended MRL (ppm)
			LAFT	HAFT			
Plum	Foliar / 2240	0	<0.03	<0.42	No concentration observed in dried prune		black cherries; Nanking cherries; jujubes; American plums; beach plums; Canada plums; cherry plums; Klamath plums; sloes)
Basil, dried leaves	Foliar / 1700	0	121	230	Not required	260 (crop subgroup 19A, dried)	260 (dried angelica leaves, dried wintergreen leaves)
Chive, dried leaves	Foliar / 1700	0	26.8	39.4	Not required		
Basil, fresh leaves	Foliar / 1700	0	20.1	47.3	Not required	50 (crop subgroup 19A, fresh)	50 (fresh wintergreen leaves)
Chive, fresh leaves	Foliar / 1700	0	1.23	6.57	Not required		
Barley	Foliar / 438-461	14-15	0.88	1.85	No concentration observed in flour[1]	0.03 (barley)	3.0 (quinoa)
Carrot	Foliar / 2240	0	0.04	0.3	Not required	0.5 (crop subgroups 1A, 1B)	0.5 (ti palm roots)
Radish root	Foliar / 2240	0	0.12	0.42	Not required		
Sugar beet root	Foliar / 2226	0	<0.04	0.18	Not required		
Radish tops	Foliar / 2240	0	10.1	34.2	Not required	50 (crop group 2)	50 (ti palm leaves)

Commodity	Application Method/ Total Application Rate (g a.i./ha)	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL (ppm)	Recommended MRL (ppm)
			LAFT	HAFT			
Sugar beet leaves	Foliar / 2226	0	<0.03	35.8	Not required		

LAFT = Lowest Average Field Trial; HAFT = Highest Average Field Trial
[1] Translated from wheat data.

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

Environmental and Value Assessments

Environmental and value 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 recommend MRLs, as proposed in Table 1, for azoxystrobin.

References

PMRA Document Number	Reference
3023731	2008, Azoxystrobin: Magnitude of the Residue on Barley, DACO: 7.4.1

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