

## Evaluation Report for Category B, Subcategory 5.0 Application

**Application Number:** 2012-3897  
**Application:** New MRL for a previously assessed TGAI  
**Product:** Azoxystrobin Technical  
**Registration Number:** 26152  
**Active ingredients (a.i.):** Azoxystrobin  
**PMRA Document Number :** 2387973

### Purpose of Application

The purpose of this application was to establish maximum residue limits (MRLs) for azoxystrobin technical in/on imported crop commodities of stone fruits (CG 12), tropical fruits, pepper/eggplant subgroup (CG 8-09B), citrus fruit (CG 10), bushberry subgroup (CG 13-07B) and small fruit vine climbing subgroup (CG 13-07F) from the US, cottonseed (CG 20C) and sugarcane from Brazil.

### Chemistry, Environmental and Value Assessments

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

### Health Assessments

Residue data for azoxystrobin on peach, cherry, plum, sugarcane and cottonseed were submitted to support the establishment of MRLs for azoxystrobin in/on several imported commodities. Previously submitted residue data for azoxystrobin on highbush blueberries, bell and non-bell peppers, citrus fruits and grapes were also reassessed to support the establishment of MRLs in/on imported commodities. In addition, processing data on treated plums, cottonseeds and sugarcane were assessed to determine the potential for concentration of residues of azoxystrobin into processed commodities.

### Maximum Residue Limits

The recommendation for MRLs for azoxystrobin was based upon the residues observed in crop commodities treated according to label directions or at exaggerated rates in the exporting countries and Canada, 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 of azoxystrobin in processed commodities not listed in Table 1 are covered under the MRLs for the raw agricultural commodities (RACs).

<b>TABLE 1. Summary of Field Trial and Processing Data Used to Support Maximum Residue Limits (MRLs).</b>							
Commodity	Appl. Method/ Total Appl. Rate	PHI (days)	Total Residues* (ppm)		Experimental Processing Factor	Currently Established MRL (ppm)	Recommended MRL (ppm)
			Min	Max			
Bell pepper	Foliar spray/ 1.7-1.9 kg a.i./ha	0	0.09	0.40	Not required	2.0	<b>3.0 (CSG 8-09B; Pepper/ eggplant subgroup)<sup>a</sup></b>
Non-bell pepper	Foliar spray/ 1.7-2.3 kg a.i./ha	0	<0.04	0.99	Not required	2.0	
Grapefruit	Foliar/ 0.56 kg a.i./ha + post-dip/ 0.12 kg a.i./100L	0	1.121	5.45	Orange oil: 4.7x; No concentration observed in juice	10	<b>15 (CG 10; Citrus fruit, Revised)<sup>b</sup>;  40 (Citrus oil)<sup>c</sup></b>
	Foliar/ 0.56 kg a.i./ha + post-spray/ 1 kg a.i./250,000 kg fruit	0	0.43	1.01			
Orange	Foliar/ 0.56 kg a.i./ha + post-dip/ 0.12 kg a.i./100L	0	1.23	4.01			
	Foliar/ 0.56 kg a.i./ha + post-spray/ 1 kg a.i./250,000 kg fruit	0	0.39	1.10			
Lemon	Foliar/ 0.56 kg a.i./ha + post-dip/ 0.12 kg a.i./100L	0	1.49	9.20			
	Foliar/ 0.56 kg a.i./ha + post-spray/ 1 kg a.i./250,000 kg fruit	0	0.28	1.59			
Sweet cherry	Foliar spray/ 2.24 kg a.i./ha	0	0.19	1.05	Not required	None	<b>2.0 (CG 12; Stone fruits)<sup>d</sup></b>
Peach	Foliar spray/ 2.24 kg a.i./ha	0	0.20	1.42	Not required	0.8	
Plum	Foliar spray/ 2.24 kg a.i./ha	0	0.02	0.43	No concentration observed in dried prune	None	
Highbush blueberry	Foliar spray/ 1.7 kg a.i./ha	0	0.49	1.63	Not required	3.0	<b>4.0 (CSG 13-07B; Bushberry subgroup)<sup>e</sup></b>
Grape	Foliar spray/ 1.5-1.7 kg a.i./ha	12-19	0.11	2.22	No concentration observed in raisins and juice	3.0	<b>4.0 (CSG 13-07F; Small fruit vine climbing, except fuzzy kiwifruit)<sup>f</sup></b>
Undelinted cotton seeds	In-furrow spray at planting + foliar sprays/ 0.7 kg a.i./ha	45	<0.02	0.62	No concentration observed in meal and refined oil	None	<b>0.7 (CSG 20C; Cottonseed subgroup, revised)</b>
Mango	Preharvest/ 1.7 kg a.i./ha	0	0.07	0.50	Not required	2.0	<b>2.0 (Tropical fruits)<sup>g</sup></b>
Lychee	Preharvest/ 2.0 kg a.i./ha	0	0.25	1.99	Not required	2.0	
Sugarcane	Foliar spray/ 0.9 kg a.i./ha	27-30	<0.02	0.12	No concentration observed in molasses and refined sugar	None	<b>0.2 (Sugarcane cane)</b>

Post-dip and post-spray: postharvest applications

\* Total residues of azoxystrobin and the Z-isomer (R230310).

<sup>a</sup> The existing MRL of 2.0 ppm in/on bell peppers, eggplants, non-bell peppers, pepinos and pepper hybrids will be removed as they will be covered under the MRL of 3.0 ppm proposed for Crop Subgroup 8-09B.

<sup>b</sup> The existing MRL of 10 ppm in/on calamondins, citrus citrons, citrus hybrids, grapefruits, kumquats, lemons, limes, oranges,

pummelos, satsuma mandarins, tangerines, Australian desert limes, Australian finger limes, Australian round limes, Brown River finger limes, Japanese summer grapefruits, Mediterranean mandarins, Mount White limes, New Guinea wild limes, Russell River limes, Sweet limes, Tachibana oranges, Tahiti limes, tangelos, tangors, trifoliate oranges, unqi fruits will be removed as they will be covered under the MRL of 15 ppm proposed for Crop Group 10.

<sup>c</sup> The existing MRL of 3.3 ppm in/on orange oil will be removed as it will be covered under the MRL of 40 ppm proposed for citrus oil.

<sup>d</sup> The existing MRL of 0.8 ppm in/on peaches and nectarines will be removed as they will be covered under the MRL of 1.5 ppm proposed for Crop Group 12.

<sup>e</sup> The existing MRL of 3.0 ppm in/on Aronia berries, Buffalo currants, Chilean guavas, currants, elderberries, European barberries, gooseberries, highbush blueberries, highbush cranberries, honeysuckle, huckleberries, jostaberries, lingonberries, lowbush blueberries, native currants, salal berries, saskatoon berries (juneberries) and sea buckthorn will be removed as they will be covered under the MRL of 4.0 ppm proposed for Crop Subgroup 13-07B.

<sup>f</sup> The existing MRL of 3.0 ppm in/on grapes will be removed as they will be covered under the MRL of 4.0 ppm proposed for Crop Subgroup 13-07F.

<sup>g</sup> An MRL of 2.0 ppm is proposed in/on tropical fruits including acerola, atemoya, avocado, biriba, canistel, cherimoya, custard apple, dragon fruit, feijoa, guava, ilama, jaboticaba, jackfruit, longan, loquat, lychee, mango, passionfruit, pawpaw, papaya, persimmon, pulasan, rambutan, sapodilla, black sapote, mamey sapote, white sapote, soursop, spanish lime, star apple, starfruit, tamarind, wax jambu, and sugar apple. The existing MRL of 2.0 ppm in/on mango and lychee will remain unchanged.

Following the review of all available data, MRLs are recommended to cover residues of azoxystrobin and the Z-isomer in/on citrus oil, tropical fruits, sugarcane, and commodities of Crop Groups 10 and 12, and Crop Subgroups 8-09B, 13-07B, 13-07F and 20C. Residues in these 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 available information for Azoxystrobin Technical and has found the information sufficient to support the establishment of MRLs as outlined in Table 1 above.

## References

PMRA Document Number	References
2225878	2012, Azoxystrobin Available data to support MRLs to cover residues in imported crop, DACO: 7.1
2225879	2012, Azoxystrobin Technical Herbicide- Proposal to amend tolerances to align with Codex, DACO: 7.1
2225880	1996, SOP RAM 243 04- Residue Analytical Method for the analysis of azoxystrobin and R230310 in crops, DACO: 7.2.1,7.2.2
2225894	2009, Azoxystrobin: Magnitude of the residues in or on sugarcane, DACO: 7.2.5,7.4.1,7.4.2,7.4.5
2225895	1998, Azoxystrobin: Residue levels on plums from trials conducted in the United States in 1997, DACO: 7.4.1,7.4.2
2225896	1998, Azoxystrobin: Residue levels on peaches from trials conducted in the United States in 1997, DACO: 7.4.1,7.4.2
2225897	1999, Azoxystrobin: Residue levels on peaches from trials conducted in the United States in 1998, DACO: 7.4.1
2225898	1998, Azoxystrobin: Residue levels on sweet cherries from trials conducted in the United States in 1997, DACO: 7.4.1,7.4.2

2225900 1998, Azoxystrobin: Processing study on plums from a trial conducted in  
California in 1997, DACO: 7.4.5  
2289868 2007, Azoxystrobin - Magnitude of the Residues in or on Cotton, DACO: 7.4.1

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