

# Evaluation Report for Category B, Subcategory 5.0 Application

<b>Application Number:</b>	2010-4335
Application:	New Maximum Residue Limits for a Previously Assessed
	Technical Grade Active Ingredient
Product:	Propiconazole Technical
<b>Registration Number:</b>	22434
Active ingredients (a.i.):	Propiconazole
<b>PMRA Document Number</b>	: 2191901

### Background

The purpose of this submission was to establish maximum residue limits (MRLs) to cover residues of propiconazole in/on several imported commodities.

### **Health Assessments**

Residue data for propiconazole on garden beets, sugar beets, carrots, dry bulb onions, green onions, celery, almond, pecan, corn, rice, wild rice, sorghum, parsley, bananas, peanut, mint, pineapple and sugarcane were submitted to support the establishment of MRLs for propiconazole in/on several imported commodities. Previously submitted residue data for propiconazole on berries were also reassessed to support the establishment of MRLs in/on imported commodities. In addition, processing data on treated sugar beet roots, field corn, rice, sorghum, parsley, peanut, mint, pineapple and sugarcane were assessed to determine the potential for concentration of residues of propiconazole into processed commodities.

# Maximum Residue Limits

Based on residue data from field trials conducted according to label directions or at exaggerated rates, MRLs to cover residues of propiconazole, including all metabolites containing the 2,4-dichlorophenyl-1-methyl substituted moiety, in/on various crops and crop groups will be established as shown in Table 1. Residues of propiconazole in processed commodities not listed in Table 1 are covered under the MRLs for the raw agricultural commodities (RACs).



	for Propicona	(	· · · · · · · · · · · · · · · · · · ·				
Commodity	Appl. Method/ Total Appl. Rate	PHI (days)	Total PON Residues (ppm)		Experimental Processing	Currently Established MRL	Recommended MRL
	(kg a.i./ha)		Min	Max	Factor	(ppm)	(ppm)
Garden beet roots	Foliar/ 0.74-0.77	14-16	< 0.05	0.27	Not required	None	0.3
Garden beet tops	Foliar/ 0.74-0.77	14-16	0.44	4.3	Not required	None	5.5
Sugar beet roots	Foliar/ 0.36	21-23	<0.05	0.23	Molasses: 7.4x; No concentration observed in refined sugar	None	0.3 (sugar beet roots); 1.5 (molasses)
Carrot roots	Foliar/ 0.49	13-14	< 0.05	0.17	Not required	None	0.25
Dry bulb onions	Foliar/ 0.49	14	< 0.05	0.18	Not required	None	0.2 (CSG 3- 07A)
Green onions	Foliar/ 0.49	0	0.57	7.5	Not required	None	9.0 (CSG 3- 07B)
Celery	Foliar/ 0.49-0.62	14	0.05	4.98	Not required	None	5.0 (CSG 4B)
Blueberries	Foliar/ 0.96-1.08	30	0.22	0.66	Not required	0.7 <sup>a</sup>	<b>1.0 (CSG 13- 07B)</b> <sup>a</sup>
Blackberries	Foliar/ 0.96	30	0.27	0.31	Not required		<b>1.0 (CSG 13- 07A)</b> <sup>a</sup>
Raspberries	Foliar/ 0.96	30	0.14	0.18	Not required		
Strawberries	Foliar/ 0.5	0-1	0.10	0.91	Not required	07G, ex	1.3 (CG 13-
Cranberries	0.68	43-44	0.18	0.59	Not required		07G, except strawberries) <sup>1</sup>
Almond	0.99-1.02	53-63	< 0.05	0.09	Not required	None	0.1 (CG 14)
Pecan	1.1-1.2	7-8 or 14	<0.05	<0.1	Not required	None	0.1 (CG 14)
Corn, field	0.47-0.53	28-35	< 0.05	0.15	No concentration observed in meal and oil	0.05 °	<b>0.2</b> °
Corn, pop	0.49	29-30	< 0.05	< 0.05	Not required	0.05 °	
Corn, sweet	0.43-0.49	13-15	< 0.05	0.06	Not required	0.05 °	
Rice	0.31-0.35	34-49	< 0.05	5.24	Bran: 2.3x	0.05 <sup>d</sup>	7.0 (grain) <sup>d</sup> ; 15.0 (bran)
Wild rice	0.25-0.37	20-58	< 0.05	0.40	Not required	0.05 <sup>e</sup>	<b>0.5</b> °
Sorghum	0.49	18-22	0.52	2.26	No concentration observed in flour	0.05 <sup>f</sup>	<b>3.5</b> <sup>f</sup>

TABLE 1. Summary of Field Trial and Processing Data Used to Establish Maximum Residue Limits (MRLs) for Propiconazole (PON).										
Commodity	Appl. Method/ Total Appl. Rate (kg a.i./ha)	PHI (days)	Total PON Residues (ppm)		Experimental Processing	Currently Established MRL	Recommended MRL			
			Min	Max	Factor	(ppm)	(ppm)			
Parsley (fresh)	0.48-0.51	13-15	1.2	6.5	Dried leaves: 5.5x	None	13 (fresh parsley leaves & cilantro); 35 (dried parsley leaves)			
Bananas	0.9	0	<0.2	<0.2	Not required	None	0.2 (bananas and plantains)			
Peanut	0.49	13-14 or 20- 21	<0.05	0.10	No concentration observed in oil	None	0.2			
Mint	0.38	6-8	0.11	5.45	No concentration observed in oil	None	10			
Pineapple	Postharvest dip/ 15.1 g a.i./100L	NA	0.34	4.1	No concentration observed in juice	None	4.5			

<sup>a</sup> The existing MRL of 0.7 ppm in/on blueberries, currants, elderberries, gooseberries, huckleberries, blackberries, loganberries and raspberries will be removed as they will be covered under the MRL of 1.0 ppm proposed for Crop Subgroups 13-07A and 13-07B.

<sup>b</sup> Strawberries are excluded as an MRL of 1.3 ppm is already established for the commodity in Canada.

<sup>c</sup> The established MRL of 0.05 ppm for field corn, popcorn and sweet corn will be replaced with the MRL of 0.2 ppm for these commodities.

<sup>d</sup> The established MRL of 0.05 ppm for rice will be replaced with an MRL of 7.0 ppm for this commodity.

<sup>e</sup> The established MRL of 0.05 ppm for wild rice will be replaced with an MRL of 0.5 ppm for this commodity.

<sup>f</sup> The established MRL of 0.05 ppm for sorghum will be replaced with an MRL of 3.5 ppm for this commodity.

### Chemistry, Environmental and Value Assessment

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

### Conclusion

Following the review of all available data, MRLs are recommended to cover residues of propiconazole, including all metabolites containing the 2,4-dichlorophenyl-1-methyl substituted moiety, in/on garden beet roots and tops, sugar beet roots and molasses, carrot roots, field corn grain, popcorn grain, sweet corn K+CWHR, rice grain and bran, wild rice, sorghum, fresh parsley leaves and cilantro, dried parsley leaves, bananas and plantains, peanuts, mint, pineapple, and commodities of Crop Group 14, and of Crop Subgroups 3-07A, 3-07B, 4B, 13-07A, 13-07B and 13-07G. Residues in these commodities at the established MRLs will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.

# References

- 1955274 2000, 7.4.1-1 Almond CG14 Tree Nuts 18-99: CGA-279202 and Propiconazole Magnitude of the Residues In or On Almond, DACO: 7.4.1
- 1955276 1998, 7.4.1-2 Almond CG14 Tree Nuts 143-98: Propiconazole and CGA-279202 Final Report, DACO: 7.4.1
- 1955277 1998, 7.4.1-3 Bananas ABR 90050: Magnitude of the residues of Propiconazole in Bananas: Project ABR-83100, DACO: 7.4.1
- 1955290 2007, 7.4.1-12 Beets IR-4 PR No 06352: Propiconazole: Magnitude of the Residues on Beet (Garden), DACO: 7.4.1
- 1955293 1995, 7.4.1-14 Carrot ABR 95006: Propiconazole Magnitude of the residues in or on carrots following post foliar applications of Tilt, DACO: 7.4.1
- 1955294 1988, 7.4.1-15 Celery ABR 88057: Propiconazole Celery Magnitude of Residue, DACO: 7.4.1
- 1955297 1995, 7.4.1-16 Celery ABR 95009: Propiconazole Magnitude of the residues in or on celery following appplications of Tilt and Tilt 45WP, DACO: 7.4.1
- 1955299 2000, 7.4.1-18 Corn 144-98: Propiconazole and CGA-279202 Magnitude of the Residues In or On Field Corn and Popcorn, DACO: 7.4.1
- 1955300 1995, 7.4.1-19 Corn ABR 95008: Propiconazole Magnitude of the residues in or on field and sweet corn following applications of tilt and tilt 45wp, DACO: 7.4.1
- 1955305 1995, 7.4.1-23 Onion ABR 94070: Propiconazole Magnitude of the Residues in or on Green Bulb Onions Following Post Foliar Applications of Tilt, DACO: 7.4.1
- 1955306 2007, 7.4.1-24 Parsley IR-4 06351: Propiconazole: Magnitude of the Residues on Parsley, DACO: 7.4.1
- 1955307 1990, 7.4.1-25 Peacan ABR 90053: Magnitude of the residues of Propiconazole in Pecans: Project ABR-83069, DACO: 7.4.1
- 1955323 1988, 7.4.1-40 Peanut 411092 SE-FR-502-85, DACO: 7.4.1
- 1955324 1985, 7.4.1-41 Pineapple ABR 85004, DACO: 7.4.1
- 1955325 1997, 7.4.1-42 Rice ABR 97110: Propiconazole Magnitude of the Residues in or on Rice following application of TILT, DACO: 7.4.1
- 1955326 2000, 7.4.1-43 Sorghum 145-98: Propiconazole Magnitude of the Residues in or on Grain Sorghum, DACO: 7.4.1
- 1955329 2000, 7.4.1-45 Sugarbeet 152-98: Propiconazole and CGA-279202 Magnitude of the Residues in or on Sugar Beet, DACO: 7.4.1
- 1955332 2009, 7.4.1-47 Tea India: Data Information Required for CCPR/JMPR evaluations for fixation of MRL of Propiconazole in Tea, DACO: 7.4.1
- 1960778 2007, 7.4.1-1 Pineapple 06585: Propiconazole: Magnitude of the Residue on Pineapple Following Post-Harvest Treatment, DACO: 7.4.1
- 2065586 1988, 7.4.1-1 Propiconazole Corn Magnitude of Residues, DACO: 7.4.1
- 2065588 1989, 7.4.1-2 Propiconazole residues in corn resulting form application of TILT aerial vs ground application, DACO: 7.4.1
- 2065589 2000, 7.4.1-3 Propiconazole and CGA-279202 Magnitude of the residues in or on rice, DACO: 7.4.1
- 2065591 1997, 7.4.1-4 Propiconazole magnitude of the residues in or on rice following application of tilt, DACO: 7.4.1

- 2065592 1989, 7.4.1-5 Propiconazole wild rice residue summary, DACO: 7.4.1
- 2065593 1984, 7.4.1-6 Rice Residue summary CGA-64250, DACO: 7.4.1
- 2065594 1988, 7.4.1-7 Propiconazole Peanuts Magnitude of residue, DACO: 7.4.1
- 2065595 2009, 7.4.1-8 Propiconazole Magnitude of the residue on mint, DACO: 7.4.1
- 2065596 2010, 7.4.1-9 Propiconazole Tea Residue, DACO: 7.4.1
- 2065597 1985, 7.4.1-10 CGA-64250-Pecans Response to EPA's Questions regarding section D, DACO: 7.4.1
- 2065598 1985, 7.4.1-11 Propiconazole Pecans residue (CGA-64250, AFA-8698), DACO: 7.4.1

ISSN: 1911-8082

#### Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services Canada 2012

All rights reserved. No part of this information (publication or product) may be reproduced or transmitted in any form or by any means, electronic, mechanical photocopying, recording or otherwise, or stored in a retrieval system, without prior written permission of the Minister of Public Works and Government Services Canada, Ottawa, Ontario K1A 0S5.