

Evaluation Report for Category B, Subcategory 5.0 Application

Application Number: 2018-7014
Application: New Maximum Residue Limits for Previous Assessed Technical Grade Active Ingredient
Product: Difenoconazole Technical Fungicide
Registration Number: 25631
Active ingredient (a.i.): Difenoconazole
PMRA Document Number: 3075340

Purpose of Application

The purpose of this application was to establish maximum residue limits (MRLs) for Difenoconazole Technical Fungicide for various imported crops.

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.

No new residue data for difenoconazole in/on mustard greens, the representative commodity of the current Crop Subgroup 4-13B (Brassica leafy greens), were submitted. Previously submitted data on mustard greens were sufficient to support the extension of the MRLs on crops within Crop Group 5B to all members in Crop Subgroup 4-13B. Residue data for field trials conducted with difenoconazole on artichokes, guava, papaya, rice, and cotton grown in the United States and tea grown in Japan were submitted to support the maximum residue limits on these commodities. In addition, processing studies for treated tea and cotton were reviewed to determine the potential for concentration of residues of difenoconazole in processed commodities.

Maximum Residue Limits

The recommendation for the maximum residue limits (MRLs) for difenoconazole was based upon the submitted field trial data, and the guidance provided in the [OECD MRL Calculator](#). MRLs to cover residues of difenoconazole 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 MRL for the raw agricultural commodity (RAC).

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			
Broccoli, Chinese ¹	-	-	-	-	-	1.9	35
Arugula, Cabbage, Abyssinian, Cabbage, seakale, Cress, garden, Cress, upland, Hanover salad, Maca, Mizuna, Radish, leaves, Rocket, wild, Shepherd's purse, Turnip greens, Watercress ¹	-	-	-	-	-	-	35
Artichoke, Globe	Foliar Spray / 605 – 772	3	0.301	0.565	-	-	1.5
Guava	Foliar Spray / 517 – 531	0	0.104	1.35	-	-	3
Papaya	Foliar Spray / 507 – 519	0	0.099	0.280	-	0.3	0.6
Rice, Grain (Including Wild Rice)	Foliar Spray / 273 – 276	28	0.041	5.21	-	0.01	8
Tea (dried leaves)	Foliar Spray / 394 – 402	7	2.08	11.6	-	-	30
Undelinted Cotton Seed	Foliar Spray / 382 – 397	44 – 48	0.010	0.245	-	0.05	0.4

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

¹The applicant has proposed that the current MRL for the commodities in the original Crop Group 5B be extended to the commodities in the current Crop Subgroup 4-13B. The MRL for Crop Group 5B was originally set based on field trials conducted on mustard greens which are the representative crop for the current Crop Subgroup 4-13B and therefore the PMRA supports the MRL of 35 ppm on all commodities in Crop Subgroup 4-13B.

Following the review of all available data, the MRLs proposed in Table 1 are recommended to cover residues of difenoconazole. Residues in these imported 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 available information for Difenoconazole Technical Fungicide and has found it sufficient to recommend MRLs for various imported crops.

References

PMRA Document Number	Reference
2948257	2012, Difenoconazole + Cyprodinil: Magnitude of the residue on artichoke, DACO 7.4.1
2948258	2015, Difenoconazole EC (A7402T) and SC (A13703G): Magnitude of the residues in or on rice USA 2013, DACO 7.4.1
2948259	2016, Difenoconazole + Azoxystrobin: Magnitude of the residue on guava, DACO 7.4.1
2948260	2016, Difenoconazole + Azoxystrobin: Magnitude of the residue on papaya, DACO 7.4.1
2948261	2018, Crop residue study on green tea with difenoconazole (SCORE) water dispersible granule (Translated version of the original report), DACO 7.4.1
2948262	2016, Difenoconazole SC (A13703G) and Difenoconazole EC (A7402T) – Magnitude of the residues in or on cotton USA 2014, DACO 7.41

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