

Evaluation Report for Category B, Subcategory 5.0 Application

Application Number: 2008-5281
Application: New MRL for previously assessed TGAI
Product: Cyprodinil Technical Fungicide
Registration Number(s): 25508
Active ingredient (a.i.): Cyprodinil
PMRA Document Number : 1924530

Purpose of Application

The purpose of this application was to establish maximum residues limits (MRLs) for cyprodinil in/on various imported commodities.

Chemistry Assessment

A chemistry assessment was not required for this application.

Health Assessments

To support the establishment of MRLs for imported commodities, residue data generated from field trials conducted in the US were reviewed for tomatoes, lemon, avocado, basil, chive, parsley, carrot, radish, cantaloupe, cucumber, squash, and kiwi. In addition, processing studies in treated tomatoes and lemon were reviewed to determine the potential for concentration of residues of cyprodinil in processed commodities.

Based on the residue data, MRLs to cover residues of cyprodinil in/on the proposed imported crops and processed commodities will be established as shown in Table 1. Residues of cyprodinil in processed commodities not listed in Table 1 are covered under established MRLs for the raw agricultural commodities.

Table 1 Summary of field trial and processing data used to establish maximum residue limits (MRLs)

Commodity	Application method/ total application rate (kg a.i./ha)	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL ¹	Recommended MRL ²
			Min	Max			
Tomato	foliar application/ 1.454-1.519	0	0.01	0.36	--	none	0.45 ppm (tomatoes & tomatillos)
Tomato paste					2.3x	none	1.0 ppm
Lemon	foliar application/ 0.366-0.385	0	0.16	0.36	--	none	0.6 ppm (lemon & lime)
Lemon oil					171x	none	60 ppm (citrus oil)
Avocado	foliar application/ 1.460-0.492	0	0.07	0.63	--	none	1.2 ppm (avocado, black sapote, canistel, mamey sapote, mango, papaya, sapodilla and star apple)
Basil (fresh)	foliar application/ 1.481-1.490	7	1.45	2.03	--	none	3.0 ppm (Herb Subgroup 19A except parsley (fresh))
Basil (dried)					5.8x	none	
Chive (fresh)	foliar application/ 1.501-1.30	7	0.56	1.14	--	none	15 ppm (Herb Subgroup 19A except parsley (dried))
Chive (dried)					4.7x	none	
Parsley (fresh)	foliar application/ 1.476-1.485	7	2.71	18.7	--	30 ppm	35 ppm
Parsley (dried)				17.6	115	--	none

Commodity	Application method/ total application rate (kg a.i./ha)	PHI (days)	Residues (ppm)		Experimental Processing Factor	Currently Established MRL ¹	Recommended MRL ²
			Min	Max			
Carrot	foliar application/ 1.470	7	0.31	0.34	--	0.75 ppm	0.75 ppm (Crop Subgroup 1B - Root Vegetables except sugar beet)
Radish roots	foliar application/ 0.717-0.789	7-8	<0.01	0.19	--	none	
Radish tops	foliar application/ 0.717-0.789	7-8	0.12	1.34	--	9 ppm (turnip greens)	10 ppm (Crop Group 2 - Leaves of Root and Tuber vegetables)
Cantaloupe	foliar application/ 1.467-1.483	1	0.04	0.47	--	none	0.7 ppm (Crop Group 9 – Cucurbit vegetables)
Cucumber	foliar application/ 1.446-1.484	1	0.03	0.26	--	none	
Squash	foliar application/ 0.468-1.559	1	0.02	0.12	--	none	
Kiwi	foliar application/ 1.045-1.076	0	0.52	1.12	--	none	1.8

¹MRL(s) currently established in Health Canada's List of MRLs regulated under PCPA.

²MRL(s) to be established as a result of the current submission

Environmental Assessment

An environmental assessment was not required for this application.

Value Assessment

A value assessment was not required for this application.

Conclusion

The PMRA conducted an evaluation of the subject application and recommends MRLs of 0.45 ppm for imported tomatoes and tomatillos; 1.0 ppm for imported tomato paste; 0.6 ppm for imported lemon and lime; 60 ppm for imported citrus oil; 1.2 ppm for imported avocado, black sapote, canistel, mamey sapote, mango, papaya, sapodilla and star apple; 3.0 ppm for imported herb Subgroup 19A, fresh, except parsley; 15 ppm for imported herb subgroup 19A, dried, except parsley; 35 ppm for imported parsley, fresh; 170 ppm for imported parsley, dried; 0.75 ppm for imported root vegetables except sugar beet (Crop Subgroup 1B); 10 ppm for imported leaves of root and tuber vegetables (Crop Group 2); 0.7 ppm for imported cucurbit vegetables (Crop Group 9); and 1.8 ppm for imported kiwi.

References

PMRA Document Number: 1672212

Reference: 2005, Cyprodonil + fludioxonil: Magnitude of the residues in or on avocado, Data Numbering Code: 7.4.1

PMRA Document Number: 1672214

Reference: 2007, Cyprodonil + fludioxonil: Magnitude of the residue on lemon, Data Numbering Code: 7.4.1

PMRA Document Number: 1672216

Reference: 2007, Cyprodinil: Magnitude of the residue on kiwifruit, Data Numbering Code: 7.4.1

PMRA Document Number: 1672218

Reference: 2006, Cyprodonil + fludioxonil: Magnitude of the residue on carrot, Data Numbering Code: 7.4.1, 7.4.2, 7.4.6

PMRA Document Number: 1672220

Reference: 2007, Cyprodonil + fludioxonil: Magnitude of the residue on radish, Data Numbering Code: 7.4.1

PMRA Document Number: 1672225

Reference: 2006, Cyprodonil + fludioxonil: Magnitude of the residue on parsley, Data Numbering Code: 7.4.1, 7.4.5

PMRA Document Number: 1672227

Reference: 2002, Cyprodonil + fludioxonil: Magnitude of the residue on chives, Data Numbering Code: 7.4.1, 7.4.5

PMRA Document Number: 1672229

Reference: 2002, Cyprodonil + fludioxonil: Magnitude of the residue on basil, Data Numbering Code: 7.4.1, 7.4.5

PMRA Document Number: 1672236

Reference: 2005, Cyprodonil + fludioxonil: Magnitude of residue on tomato, Data Numbering Code: 7.4.1, 7.4.2, 7.4.5

PMRA Document Number: 1672243

Reference: 2007, Switch™ – Magnitude of the residues of cyprodinil and fludioxonil in or on cantaloupe, cucumber, and squash as representative commodities of vegetables, cucurbit, group 9, Data Numbering Code: 7.4.1

PMRA Document Number: 1873885

Reference: 2010, Cyprodinil + fludioxonil: Magnitude of the residue on lemon (processing), Data Numbering Code: 7.4.5

ISSN: 1911-8082

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