

Evaluation Report for Category B, Subcategory 5.0 Application

Application Number: 2011-3889
Application: New MRL for previously assessed TGAI
Product: Metalaxyl-M Technical
Registration Number: 25372
Active ingredients (a.i.): Metalaxyl-M (MFN)
PMRA Document Number : 2335136

Purpose of Application

The purpose of this application was to establish import MRLs for metalaxyl-M and to examine previously established MRLs on various crops and commodities.

Chemistry, Environmental and Value Assessments

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

Health Assessments

Residue data from field trials conducted in the United States were submitted to support the import of various crops that may contain residues of metalaxyl-M. Metalaxyl-M was applied both GAP and at exaggerated rates, and crops were harvested according to label directions. Some of the data submitted had been previously reviewed and were re-assessed in the framework of the current petition. In addition, processing studies in treated apricots, grapes, and plums were re-assessed to determine the potential for concentration of residues of metalaxyl-M into processed commodities.

Maximum Residue Limits

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

Commodity	Application Method /	PHI (days)	Residues (ppm)	Experimental	Currently Established	Recommended MRL
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	Total Application Rate (g a.i./ha)		Min	Max	Processing Factor	d MRL (ppm)	(ppm)
Chives, fresh	Soil incorporation & soil directed / 4480	19	1.2	7.4	-	-	15 (Herb CSG 19A, fresh)
Chives, dried	Soil incorporation & soil directed / 4480	19	17	22	-	-	27 (Herb CSG 19A, dried)
Basil, fresh	Soil incorporation & soil directed / 4480	21-23	0.74	3.65	-	-	15 (Herb CSG 19A, fresh)
		14	0.88	1.34			
Basil, dried	Soil incorporation & soil directed / 4480	14	6.2	11.4	8X	-	27 (Herb CSG 19A, dried)
Kiwifruit	Soil directed / 1960	7	<0.05	<0.05	-	-	0.1
Papaya; star apple; black sapote; mango; sapodilla; canistel; mamey sapote	Soil directed / 3360 Trunk and Fruit / 8736	1	<0.05	0.08	-	-	0.40
Strawberry	Soil & foliar broadcast / 2240	0	<0.05	4.4	-	0.4	10
Cranberry	Soil & foliar spray / 5880	45-47	0.07	3.8	-	-	4.0
Starfruit	Soil drench / 3360	28-29	<0.05	0.09	-	-	0.2
Sugar apple, atemoya, custard apple	Soil drench / 6720	18-27	<0.05	0.13	-	-	0.2
Pineapple	Pre-plant dip / 1120	481-604	<0.05	<0.05	-	-	0.1

TABLE 1. Summary of Field Trial and Processing Data Used to Support Maximum Residue Limits (MRLs)

Commodity	Application Method /	PHI (days)	Residues (ppm)		Experimental	Currently Established	Recommended MRL
Artichoke	Seed treatment / 62 g a.i./100 kg seed Soil / 1120	203	<0.05	<0.05	-	-	0.05
Blueberry	Soil / 8120	0	<0.05	1.6	-	2.0	3.0 (Bushberry CSG 13-07B)
Grape	Soil / 6180	57-67	<0.05	0.08	1.3X, raisin	1.0	2.0
	Foliar / 896	66	0.07	1.4			
Mustard greens	Soil / 2240 Foliar / 806	7	0.80	8.7	-	-	15 (Leafy Brassica Greens CSG 5B)

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided in support of metalaxyl-M, and has found the information sufficient to support MRLs as proposed in Table 1. 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.

References

PMRA No.	Reference
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2095322	2005, Mefenoxam: Magnitude of Residue on Kiwifruit, DACO: 7.4.1
2095323	1999, Metalaxyl: Magnitude of Residue in or on Artichoke, DACO: 7.4.1
2095324	1999, Metalaxyl: Magnitude of the Residue on Carambola, DACO: 7.4.1
2095325	1999, Metalaxyl: Magnitude of the Residue on Sugar Apple, DACO: 7.4.1
2095326	1991, Metalaxyl Magnitude of residues in cranberries resulting from ground vs. aerial applications of Ridomil 2E and Ridomil 5G, DACO: 7.4.1

PMRA No.	Reference
2095327	2005, Metalaxyl-M - Residue Levels on Strawberries (Fruit) from Trials Conducted with RIDOMIL GOLD 480SL and RIDOMIL GOLD 480EC in Canada During 2003, DACO: 7.4.1
2095328	1997, Metalaxyl - Magnitude of the Residues in or on Strawberries Following Application of Ridomil 2E and Ridomil 50W, DACO: 7.4.1
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2095331	2008, Mefenoxam: Magnitude of Residue (Reanalysis) on Caneberry (Raspberry or Blackberry), DACO: 7.4.1
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2095339	1996, CGA-329351 Magnitude of the Residues in or on Tomatoes, DACO: 7.4.1
2095341	2002, Mefenoxam Magnitude of the Residues in or on Grapes, DACO: 7.4.1
2095342	1984, Residues Summary Metalaxyl- Field Grapes, DACO: 7.4.1
2095344	1989, Metalaxyl Residues in Grapes and Grape fractions Resulting from Application of Ridomil MZ58, DACO: 7.4.1
2095345	1984, Summary of Section D - Metalaxyl Stone Fruit, DACO: 7.4.1
2095346	1986, Summary of Section D Metalaxyl - Blueberries, DACO: 7.4.1
2095347	2005, Metalaxyl: Magnitude of Residue on Papaya, DACO: 7.4.1
2095348	2005, Metalaxyl: Magnitude of Residue on Papaya Following a Foliage and Trunk Spray, DACO: 7.4.1
2095349	1999, Metalaxyl: Magnitude of Residue on Papaya Following a Soil Drench, DACO: 7.4.1
2095350	1982, Metalaxyl Residues in Pineapple from a Preplant Dip Application of Ridomil 2E, DACO: 7.4.1
2254747	1983, Residues Summary Metalaxyl - Broccoli, Cabbage and Cauliflower, DACO: 7.4.1
2254748	1985, Metalaxyl - Stone fruit, DACO: 7.4.1
2254750	1991, Metalaxyl - magnitude of residue in brassica vegetables, cole crop grouping following a preplant broadcast, incorporated application of Ridomil 2E and four post foliar spray application of Ridomil Bravo 81w, DACO: 7.4.1

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