Proposed Maximum Residue Limit

Santé

Canada

PMRL2010-65

Thiamethoxam

(publié aussi en français)

22 November 2010

This document is published by the Health Canada Pest Management Regulatory Agency. For further information, please contact:

Publications Pest Management Regulatory Agency Health Canada 2720 Riverside Drive A.L. 6604-E2 Ottawa, Ontario K1A 0K9

pmra.publications@hc-sc.gc.ca Internet: healthcanada.gc.ca/pmra

Facsimile: 613-736-3758 Information Service:

1-800-267-6315 or 613-736-3799 pmra.infoserv@hc-sc.gc.ca



HC Pub: 100448

ISBN: 978-1-100-16735-0 978-1-100-16736-7

Catalogue number: H113-24/2010-65E H113-24/2010-65E-PDF

\odot Her Majesty the Queen in Right of Canada, represented by the Minister of Health Canada, 2010

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.

Under the authority of the *Pest Control Products Act*, Health Canada's Pest Management Regulatory Agency (PMRA) is proposing to establish maximum residue limits (MRLs) for thiamethoxam in or on root vegetables (Crop Subgroup 1A) and leaves of root vegetables, leafy vegetables (Crop Groups 4 and 5), cucurbit vegetables (Crop Group 9), citrus fruits (Crop Group 10-09), pome fruits (Crop Group 11), stone fruits (Crop Group 12), berries (Crop Subgroups 13-07A, 13-07F and 13-07G; except cranberries and gooseberries), avocados, barley, black sapotes, canistels, coffee, globe artichokes, hops (dried), mamey sapotes, mangoes, papayas, peppermint tops, potatoes, raisins, sapodillas, spearmint tops, star apples and undelinted cotton seed to permit the import and sale of food containing such residues.

Thiamethoxam is an insecticide currently registered for use in Canada on a number of cereal, fruit, legume, oilseed and vegetable commodities.

The PMRA has determined the quantity of residues that are likely to remain in or on the imported food commodities when thiamethoxam is used according to label directions in the exporting country. The Agency has also determined that such residues will not be a concern to human health and is proposing to legally establish corresponding import MRLs. An MRL applies to the identified raw agricultural food commodity as well as to any processed food product that contains it, except where separate MRLs are specified for the raw agricultural commodity and a processed product made from it.

Details regarding the import MRLs can be found in the corresponding Evaluation Report available in the Pesticides and Pest Management section of Health Canada's website, under Public Registry, Pesticide Product Information Database.¹

Currently, all commodities without a specified MRL for thiamethoxam are covered under the 0.02 ppm MRL established for "All food crops (other than those listed in this item)". MRLs established for potato commodities are also proposed for revision under this action.

Consultation on the proposed MRLs for thiamethoxam is being conducted via this document (see Next Steps, the last section of this document).

To comply with Canada's international trade obligations, consultation on the proposed MRLs is also being conducted internationally by notifying the World Trade Organization, as coordinated by the Standards Council of Canada.

The relevant report can be accessed by selecting the Applications/Amendment/Historical tab and opening the Evaluation Report found under Application Number 2007-7220.

The proposed MRLs for thiamethoxam in Canada in or on food, to replace the corresponding MRLs already legally established, are as follows.

 Table 1
 Proposed Maximum Residue Limits for thiamethoxam

Common Name	Residue Definition	MRL (ppm	Food Commodity
Thiamethoxam	3-[(2-chloro-5-	4.5	Head and stem Brassica (Crop Subgroup 5A)
	thiazolyl)methyl] tetrahydro-5-methyl- <i>N</i> -	4.0	Leafy vegetables, except Brassica (Crop Group 4)
	nitro-4 <i>H</i> -1,3,5- oxadiazin-4-imine, including the metabolite (<i>E</i>)- <i>N</i> -[(2-chloro-5- thiazolyl) methyl]- <i>N</i> '- methyl- <i>N</i> "-nitroguanidine	3.0	Leafy Brassica greens (Crop Subgroup 5B)
		1.5	Peppermint tops, spearmint tops
		0.8	Black salsify tops, celeriac tops, chicory tops, edible burdock tops, garden beet tops, oriental radish tops, radish tops, rutabaga tops, turnip tops, turnip-rooted chervil tops
		0.5	Stone fruits (Crop Group 12)
		0.45	Globe artichokes
		0.4	Citrus fruits (Crop Group 10-09), avocados, black sapotes, canistels, mamey sapotes, mangoes, papayas, sapodillas, star apples
		0.35	Caneberries (Crop Subgroup 13-07A)
		0.3	Low growing berries (Crop Subgroup 13-07G; except cranberries), barley, raisins
		0.2	Cucurbit vegetables (Crop Group 9), pome fruits (Crop Group 11), small fruit vine climbing except fuzzy kiwifruit (Crop Subgroup 13-07F; except gooseberries)
		0.15*	Potatoes
		0.1	Undelinted cotton seed, hops (dried)
		0.05	Root vegetables (Crop Subgroup 1A), coffee

Proposed to replace the currently established MRLs of 0.05 ppm for potatoes and 0.08 ppm for potato chips. A separate MRL for potato chips is no longer required as all processed commodities will be included under the revised raw agricultural commodity MRL.

MRLs are proposed for commodities included in the listed crop groupings in accordance with Appendix I.

A complete list of all MRLs established in Canada can be found on the Maximum Residue Limits for Pesticides webpage in the Pesticides and Pest Management section of Health Canada's website.

International Situation and Trade Implications

With the exception of the commodities indentified in Table 2, the proposed MRLs for thiamethoxam in Canada are the same as corresponding tolerances established in the United States (tolerances are listed in the Electronic Code of Federal Regulations, 40 CFR Part 180, by pesticide). Currently, Codex Alimentarius MRLs² have not been established for thiamethoxam on any commodity. A listing of all established Codex MRLs is available on the Codex Alimentarius Pesticide Residues in Food website.

Table 2 Comparison of Canadian MRLs and American Tolerances (where different)

Food Commodity	Canadian MRL (ppm)	American Tolerance (ppm)
Black salsify tops, celeriac tops, chicory tops, edible burdock tops, garden beet tops, oriental radish tops, rutabaga tops, turnip tops, turnip-rooted chervil tops	0.8	No tolerance established*
Potatoes	0.15	0.25

A 0.8 ppm tolerance is established for radish tops but not for the remaining leaves of root vegetables included in this MRL action.

Next Steps

The PMRA invites the public to submit written comments on the proposed MRLs for thiamethoxam up to 75 days from the date of publication of this document. Please forward your comments to Publications (see the contact information on the cover page of this document). The PMRA will consider all comments received before making a final decision on the proposed MRLs for thiamethoxam and posting a corresponding Established Maximum Residue Limit document in the Pesticides and Pest Management section of Health Canada's website.

[.]

The Codex Alimentarius Commission is an international organization under the auspices of the United Nations that develops international food standards, including MRLs.

		_

Appendix I

Crop Groups: Numbers and Definitions

Crop Group		C	rop Subgroup	Food Commodities Included in the Crop Group or	
No.	Name	No.	Name	Subgroup	
1	Root and tuber vegetables	1A	Root vegetables	Black salsify roots Carrot roots Celeriac roots Chicory roots Edible burdock roots Garden beet roots Ginseng roots Horseradish roots Oriental radish roots Parsnip roots Radish roots Rutabaga roots Salsify roots Skirret roots Spanish salsify roots Sugar beet roots Turnip rooted chervil roots Turnip-rooted parsnip roots	
4	Leafy vegetables (except Brassica vegetables)			Amaranth Arugula Cardoon Celery Celtuce Chinese celery Corn salad Dandelion leaves Dock Edible leaved chrysanthemum Endives Fresh chervil leaves Fresh Florence fennel leaves and stalk Fresh parsley leaves Garden cress Garden purslane Garland chrysanthemum Head lettuce Leaf lettuce New Zealand spinach Orach leaves Radicchio Rhubarb Spinach Swiss chard Upland cress Vine spinach	

Crop Group Crop Subgroup		rop Subgroup	Food Commodities Included in the Crop Group or	
No.	Name	No.	Name	Subgroup
5	Brassica (cole) leafy vegetables	5A	Head and stem Brassica	Broccoli Brussels sprouts Cabbages Cauliflower Chinese broccoli Chinese mustard cabbages Kohlrabi Napa Chinese cabbages
5	Brassica (cole) leafy vegetables	5B	Leafy Brassica greens	Bok choy Chinese cabbages Broccoli raab Collards Kale Mustard greens Mustard spinach Rape greens
9	Cucurbit vegetables			Balsam apples Balsam pears Cantaloupes Chayote fruit Chinese cucumbers Chinese waxgourds Citron melons Cucumbers Edible gourds (other than those listed in this item) Muskmelons (other than those listed in this item) Pumpkins Summer squash Watermelons West Indian gherkins Winter squash
10-09	Citrus fruit			Australian desert limes Australian round limes Brown River finger limes Calamondins Citrus citron Citrus hybrids Grapefruits Japanese summer grapefruits Kumquats Lemons Limes Mediterranean mandarins Mount White limes New Guinea wild limes Oranges Pummelos Russell River limes Satsuma mandarins Sweet limes Tachicana oranges

Crop Group		Crop Subgroup		Food Commodities Included in the Crop Group or	
No.	Name	No.	Name	Subgroup	
				Tahiti limes	
				Tangelos	
				Tangerines	
				Tangors	
				Trifoliate oranges	
				Uniq fruits	
11	Pome fruits			Apples	
				Crabapples	
				Loquats	
				Mayhaws	
				Oriental pears	
				Pears	
10	C. C.			Quinces	
12	Stone fruits			Apricots	
				Nectarines Peaches	
				Plumcots	
				Plums	
				Prune plums	
				Sweet cherries	
				Tart cherries	
13-	Berry and small fruit	13-	Caneberry	Blackberries	
07	Derry and sman fruit	07A	Cancochry	Loganberries	
07		0771		Raspberries	
				Wild raspberries	
13-	Berry and small fruit	13-	Small fruit vine	Amur river grapes	
07	J	07F	climbing, except	Gooseberries*	
			fuzzy kiwifruit	Grapes	
				Hardy kiwifruit	
				Maypop	
				Schisandra berries	
13-	Berry and small fruit	13-	Low growing	Bearberries	
07		07G	berry	Bilberries	
Goosebo				Cloudberries	
				Cranberries**	
				Lingonberries	
				Lowbush blueberries	
				Muntries	
				Partridgeberries	
				Strawberries	