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Proposed Maximum Residue Limit

PMRL2010-11

Azoxystrobin

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Azoxystrobin

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 azoxystrobin on head and stem *Brassica* (Crop Subgroup 5A), leafy *Brassica* greens (Crop Subgroup 5B), fruiting vegetables except cucurbits (Crop Group 8, except tomatoes), caneberries (Crop Subgroup 13-07A), bushberries (Crop Subgroup 13-07B), herbs (Crop Subgroup 19A), spices (Crop Subgroup 19B, except black pepper), cranberries, garden beet tops, globe artichokes, hops, lychees, mangoes, peppermint tops, spearmint tops, sunflower seeds and watercress to permit the import and sale of foods containing such residues. The PMRA is also proposing to amend MRLs established for azoxystrobin on leafy vegetables except *Brassica* (Crop Group 4), citrus fruits (revised Crop Group 10), bananas, dry bulb onions, dry soybeans, green onions, peanuts, peanut oil, rice and sugar beet roots to permit their import into Canada.

The PMRA has determined the quantity of residues that are likely to remain in or on the imported food commodities when azoxystrobin 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 that is available in the Pesticides and Pest Management section Health Canada's website, under Public Registry, Pesticide Product Information Database.¹

Consultation on the proposed import MRLs for azoxystrobin 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.

¹ The relevant report can be accessed by selecting the Applications/Amendment/Historical and opening the Evaluation Report found under Application Number 2007-0222.

The proposed MRLs for azoxystrobin in Canada in or on food, to replace or be added to those MRLs already legally established, are as follows.

Table 1 Proposed Maximum Residue Limits for Azoxystrobin

Common Name	Residue Definition	MRL (ppm)	Food Commodity
Azoxystrobin	(αE)-methyl 2-[[6-(2-cyanophenoxy)-4-pyrimidinyl]oxy]-α-(methoxymethylene) benzeneacetate, including the isomer (Z)-methyl 2-[[6-(2-cyanophenoxy)-4-pyrimidinyl]oxy]-α-(methoxymethylene) benzeneacetate	260	Herbs (Crop Subgroup 19A; dried leaves)
		50	Herbs (Crop Subgroup 19A; fresh leaves)
		38	Spices (Crop Subgroup 19B; except black pepper)
		35	Garden beet tops
		30	Leafy vegetables, except <i>Brassica</i> vegetables (Crop Group 4)*, peppermint tops, spearmint tops
		25	Leafy <i>Brassica</i> greens (Crop Subgroup 5B)
		20	Hops (dried)
		10	Citrus fruits (<i>Citrus</i> spp., <i>Fortunella</i> spp.) (Crop Group 10)*
		7.5	Green onions*
		5.0	Caneberries (Crop Subgroup 13-07A), rice*
		4.0	Globe artichokes
		3.0	Bushberries (Crop Subgroup 13-07B), head and stem <i>Brassica</i> (Crop Subgroup 5A), watercress
		2.0	Fruiting vegetables except cucurbits (Crop Group 8; except tomatoes), bananas*, lychees, mangoes
		1.0	Dry bulb onions*
		0.6	Peanut oil*
0.5	Cranberries, dry soybeans*, sugar beet roots*, sunflower seeds		
0.2	Peanuts*		

* The MRLs proposed for azoxystrobin include revisions to the currently established MRLs of 17 ppm for Crop Group 4 commodities, except spinach, and 27 ppm for New Zealand spinach, spinach and vine spinach; 0.8 ppm for Crop Group 10; 1.2 ppm for bananas; 0.7 ppm for dry bulb onions; 0.35 ppm for dry soybeans; 7.0 ppm for green onions; 0.45 ppm for peanut oil; 0.15 ppm for peanuts; 4.0 ppm for rice and 0.3 ppm for sugar beet roots.

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

The proposed MRLs for azoxystrobin in Canada are the same as corresponding tolerances established in the United States, except for garden beet tops as per Table 2. American tolerances are listed in the Electronic Code of Federal Regulations, 40 CFR Part 180, by pesticide. Currently, Codex² MRLs have not been established for azoxystrobin on any commodity. A listing of established Codex MRLs is available on the Codex Alimentarius Pesticide Residues in Food website.

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

Food Commodity	Canadian MRL (ppm)	American Tolerance (ppm)	Codex MRL (ppm)
Garden beet tops	35	50 ("Vegetable, leaves of root and tuber, group 2")	No MRL established

Next Steps

The PMRA invites the public to submit written comments on the proposed import MRLs for azoxystrobin 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 import MRLs for azoxystrobin and posting a corresponding Established Maximum Residue Limit document in the Pesticides and Pest Management section of Health Canada's website.

² Codex 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		Crop Subgroup (if applicable)		Food Commodities Included in the Crop Group or Subgroup
No.	Name	No.	Name	
4	Leafy Vegetables (Except <i>Brassica</i> 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 Winter purslane
5	<i>Brassica</i> (Cole) Leafy Vegetables	5A	Head and stem <i>Brassica</i>	Broccoli Brussels sprouts Cabbages Cauliflower Chinese broccoli Chinese mustard cabbages Kohlrabi Napa Chinese cabbages
5	<i>Brassica</i> (Cole) Leafy Vegetables	5B	Leafy <i>Brassica</i> greens	Bok choy Chinese cabbages Broccoli raab Collards Kale Mustard greens Mustard spinach Rape greens

Crop Group		Crop Subgroup (if applicable)		Food Commodities Included in the Crop Group or Subgroup
No.	Name	No.	Name	
8	Fruiting Vegetables (Except Cucurbits) (except tomatoes)			Bell peppers Eggplants Groundcherries Non-bell peppers Pepinos Pepper hybrids Tomatillos
10	Citrus Fruits (<i>Citrus</i> spp., <i>Fortunella</i> spp.) - Revised			Australian desert limes Australian finger 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 Tachibana oranges Tahiti limes Tangelos Tangerines Tangors Trifoliate oranges Uniq fruits
13-07	Berries	13-07A	Caneberries	Blackberries Loganberries Raspberries Wild raspberries

Crop Group		Crop Subgroup (if applicable)		Food Commodities Included in the Crop Group or Subgroup
No.	Name	No.	Name	
13-07	Berries	13-07B	Bushberries	Aronia berries Buffalo currants Chilean guava Currants Elderberries European barberries Gooseberries Highbush blueberries Highbush cranberries Honeysuckle Huckleberries Jostaberries Lingonberries Lowbush blueberries Native currants Salal berries Saskatoon berries (juneberries) Sea buckthorn
19	Herbs and Spices	19A	Herbs (Dried Commodities)	Dried balm leaves Dried basil leaves Dried borage leaves Dried burnet leaves Dried camomile Dried catnip Dried chervil leaves Dried Chinese chive leaves Dried chive leaves Dried clary leaves Dried coriander leaves Dried costmary leaves Dried curry leaves Dried dillweed leaves Dried horehound leaves Dried hyssop tops Dried lavender Dried lemongrass leaves Dried lovage leaves Dried marigold Dried marjoram Dried nasturtium Dried parsley leaves Dried pennyroyal leaves Dried rosemary leaves Dried rue leaves Dried saffron Dried sage leaves Dried summer savory leaves Dried sweet bay leaves Dried tansy leaves Dried tarragon leaves Dried thyme leaves Dried winter savory leaves

Crop Group		Crop Subgroup (if applicable)		Food Commodities Included in the Crop Group or Subgroup
No.	Name	No.	Name	
				Dried woodruff leaves Dried wormwood leaves
19	Herbs and Spices	19A	Herbs (Fresh Commodities)	Fresh angelica Fresh balm leaves Fresh basil leaves Fresh borage leaves Fresh burnet leaves Fresh clary leaves Fresh coriander leaves Fresh costmary leaves Fresh culantro leaves Fresh curry leaves Fresh dillweed leaves Fresh horehound leaves Fresh hyssop tops Fresh lavender Fresh lemongrass leaves Fresh lovage leaves Fresh marigold Fresh marjoram Fresh nasturtium Fresh pennyroyal leaves Fresh rosemary leaves Fresh rue leaves Fresh sage leaves Fresh summer savory leaves Fresh sweet bay leaves Fresh tansy leaves Fresh tarragon leaves Fresh thyme leaves Fresh winter savory leaves Fresh woodruff leaves Fresh wormwood leaves
19	Herb and Spices	19B	Spices (except black pepper)	Allspice Anise seeds Anise star Annatto seeds Black caraway seeds Caper buds Caraway seeds Cardamom amomum seeds Cardamom seeds Cassia Celery seeds Cinnamon Cloves Common fennel seeds Coriander seeds Culantro seeds Cumin Dill seeds

Crop Group		Crop Subgroup (if applicable)		Food Commodities Included in the Crop Group or Subgroup
No.	Name	No.	Name	
				Fenugreek seeds Florence fennel seed Grain of paradise Horehound leaves Juniper berry Lovage seeds Mace Mustard seed (condiment type) Nutmeg Poppy seed Saffron Vanilla White pepper