Proposed Maximum Residue Limit PMRL2010-26

Flumioxazin

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Under the authority of the *Pest Control Products Act*, Health Canada's Pest Management Regulatory Agency (PMRA) has granted conditional registration to technical grade flumioxazin and the end-use product Flumioxazin 51WDG for use in Canada on pome fruits (Crop Group 11), stone fruits (Crop Group 12), asparagus, dry bulb onions, grapes, highbush blueberries, potatoes, soybeans and strawberries. See Appendix I for a list of crop group commodities. The specific uses approved in Canada are detailed on the product label of Flumioxazin 51WDG, *Pest Control Products Act* Registration Number 29235.

The evaluation of these flumioxazin applications indicated that the end-use product has merit and value and that the human health and environmental risks associated with the new uses are acceptable. Details regarding these registrations can be found in Evaluation Report ERC2010-05, *Flumioxazin*.

Before registering a pesticide for food use in Canada, the PMRA must determine the quantity of residues that are likely to remain in or on the food when the pesticide is used according to label directions and that such residues will not be a concern to human health. This quantity is then legally established as a maximum residue limit (MRL). 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.

Consultation on the proposed MRLs for flumioxazin is being conducted via this document (see Next Steps). ERC2010-05 includes information regarding the proposed MRLs in Section 3.5.4 and Appendix II, which addresses the international situation and trade implications. Supporting field trial residue data is provided in Appendix 1, Table 5 of the Evaluation Report.

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 proposed MRLs for flumioxazin in Canada in or on food are as follows.

Table 1 Proposed Maximum Residue Limits for Flumioxazin

Common Name	Residue Definition	MRL (ppm)	Food Commodity
Flumioxazin	2-[7-fluoro-3,4-dihydro-3-oxo-4-(2-propynyl)-2*H*-1,4-benzoxazin-6-yl]-4,5,6,7-tetrahydro-1*H*-isoindole-1,3(2*H*)-dione	0.07	Low growing berries (Crop Subgroup 13-07G)
		0.02	Tuberous and corm vegetables (Crop Subgroup 1C), bulb onions (Crop Subgroup 3-07A), pome fruits (Crop Group 11), stone fruits (Crop Group 12), bushberries (Crop Subgroup 13-07B; except lowbush blueberries), small fruits vine climbing except fuzzy kiwifruit (Crop Subgroup 13-07F), asparagus, dry soybeans

MRLs are proposed for each commodity 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

MRLs may vary from one country to another for a number of reasons, including differences in pesticide use patterns and the locations of the field crop trials used to generate residue chemistry data. The proposed Canadian MRLs are the same as corresponding tolerances established in the United States (tolerances listed in the Electronic Code of Federal Regulations by pesticide) except as identified in Table 2. The table includes a single distinct MRL and three crop subgroups where Canadian MRLs are proposed for the complete subgroup, while the corresponding American tolerances are limited to select commodities within each subgroup. Currently, Codex MRLs[1] have not been established for flumioxazin on any commodity. A listing of all established Codex MRLs is available on the Codex Alimentarius Pesticide Residues in Food website.

[1] Codex is an international organization under the auspices of the United Nations that develops international food standards, including MRLs.

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

Food Commodity	Canadian MRL (ppm)	American Tolerance (ppm)
Lowbush blueberries*	0.07	0.02**
Low growing berry (Crop Subgroup 13-07G)	0.07	0.07 "Strawberry" only
Bulb onions (Crop Subgroup 3-07A)	0.02	0.02 "Garlic (bulb)", "Onion, bulb" and "Shallot, bulb" only
Small fruit vine climbing, except fuzzy kiwifruit (Crop Subgroup 13-07F)	0.02	0.02 "Grape" only

* The Canadian MRL for lowbush blueberries is covered by the 0.07 ppm MRL proposed for "Low growing berry (Crop Subgroup 13-07G)" as it is specifically excluded from the 0.02 ppm MRL proposed for the bushberries crop subgroup in Table 1.

** The American tolerance for lowbush blueberries is covered by the 0.02 ppm tolerance established for "Bushberry subgroup 13-07B".

Next Steps

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

Appendix I Crop Groups: Numbers and Definitions

Crop Group Number and Name		Crop Subgroup Number and Name (if appropriate)		Food Commodities Included in the Crop Group or Subgroup
1	Root and tuber vegetables	1C	Tuberous and corm vegetables	Arracacha Arrowroot Cassava roots Chayote roots Chinese artichokes Chufa Edible canna Ginger roots Jerusalem artichokes Lerens Potatoes Sweet potato roots Tanier corms Taro corms True yam tubers Turmeric roots Yam bean roots
3-07	Bulb vegetables	3-07A	Bulb onion	Chinese onions Daylilies Dry bulb onions Fritillaria bulbs Garlic Great headed garlic Lilies Pearl onions Potato onions Serpent garlic Shallot bulbs
11	Pome fruits			Apples Crabapples Loquats Mayhaws Oriental pears Pears Quinces
12	Stone fruits			Apricots Nectarines Peaches Plumcots Plums Prune plums Sweet cherries Tart cherries

Crop Group Number and Name		Crop Subgroup Number and Name (if appropriate)		Food Commodities Included in the Crop Group or Subgroup
	Berry and small fruit	13-07B	Bushberry (Lowbush blueberries are excluded from the proposed Subgroup 13-07B MRL but are covered by the MRL proposed for Subgroup 13-07G)	Aronia berries Buffalo currants Chilean guavas Currants (red and black) Elderberries European barberry Gooseberries Highbush blueberries Highbush cranberries Honeysuckle Huckleberries Jostaberries Lingonberries Native currants Salal berries atoon berries (juneberries) Sea buckthorn
13-07	Berry and small fruit	13-07F	Small fruit vine climbing, except fuzzy kiwifruit	Amur river grapes Gooseberries Grapes Hardy kiwifruit Maypop Schizandra berries
13-07	Berry and small fruit	13-07G	Low growing berry	Bearberries Bilberries Cloudberries Cranberries Lingonberries Lowbush blueberries Muntries Partridgeberries Strawberries