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Proposed Maximum Residue Limit

PMRL2022-23

Florpyrauxifen-benzyl

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Purpose of consultation

Maximum residue limits (MRLs)¹ are being proposed for the pesticide florpyrauxifen-benzyl as part of the following applications for Canadian use, under submission numbers 2019-6962, 2019-6964, 2019-6965, 2019-6966, 2019-6968 and 2019-6969.

Under the authority of the [Pest Control Products Act](#), Health Canada's Pest Management Regulatory Agency (PMRA) is proposing acceptability of the uses requested under the above-noted applications to register the technical grade florpyrauxifen-benzyl and the end-use products Milestone NXT Herbicide for new uses on rangeland, permanent grass pastures, rights-of-way, industrial and other non-crop areas; GF-3206 Herbicide for new uses on hazelnuts and rangeland, permanent grass pastures, industrial and other non-crop areas; and Restore NXT Herbicide for new uses on rangeland and permanent grass pastures, all to control or suppress various weeds. Health Canada is also proposing acceptability of the uses requested under the above-noted applications to register the end-use products GF-3301 Herbicide and ProcellaCOR FX Herbicide for in-water or foliar application to submersed or floating aquatic target weeds in still or slow-moving waters of ponds, lakes, reservoirs, streams, rivers and canals, including shoreline and riparian areas in or adjacent to these bodies in Canada.

The evaluation of these florpyrauxifen-benzyl applications indicated that the end-use products have value, and the human health and environmental risks associated with their proposed uses are acceptable. Details regarding these applications can be found in [Proposed Registration Decision PRD2022-17, Florpyrauxifen-benzyl, Milestone NXT Herbicide, Restore NXT Herbicide, GF-3206 Herbicide, GF-3301 Aquatic Herbicide, and ProcellaCOR FX Herbicide](#), posted to the Canada.ca website on 15 December 2022. Dietary risks from the consumption of foods listed in Table 1 were shown to be acceptable when florpyrauxifen-benzyl is used according to the supported label directions. Therefore, foods containing residues resulting from this use are safe to eat, and MRLs are being proposed as a result of this assessment.

Dietary health assessment

In assessing the risk of a pesticide, Health Canada combines information on pesticide toxicity with information on the degree and duration of dietary exposure to the pesticide residue from food. The risk assessment process involves four distinct steps:

- 1) Identifying the toxicology hazards posed by the pesticide;
- 2) Determining the “acceptable dietary level” for Canadians (including all vulnerable populations), which is protective of adverse health effects;
- 3) Estimating human dietary exposure to the pesticide from all applicable sources (domestic and imported commodities); and

¹ A maximum residue limit (MRL) is the maximum amount of residue that may remain in or on food when a pesticide is used according to label directions.

- 4) Characterizing health risk by comparing the estimated human dietary exposure to the acceptable dietary level.

Before registering a pesticide for food use in Canada, Health Canada must determine the quantity of residues that could 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 (Steps 3 and 4 above). If estimated human exposure is less than or equal to the acceptable level (developed in Step 2 above), Health Canada concludes that consuming residues resulting from use according to approved label directions is not a health concern. The proposed MRL is then subject to consultation to legally specify it as an MRL. An MRL applies to the identified raw agricultural food commodity, as well as to any processed food product that contains it, except for certain instances where different MRLs are specified for the raw agricultural commodity and its processed product(s).

Consultation on the proposed MRLs for florpyrauxifen-benzyl is being conducted via this document and PRD2022-17. The end-use products Milestone NXT Herbicide and Restore NXT Herbicide also contains aminopyralid. The currently established MRLs for aminopyralid on animal commodities of 0.02 ppm for fat, meat and meat byproducts (except kidney) of cattle, goats, horses and sheep; 0.3 ppm for kidney of cattle, goats, horses and sheep; and 0.03 ppm for milk are sufficient to cover residues resulting from these new co-formulations and are, therefore, unaffected by this MRL action. Health Canada invites the public to submit written comments on the proposed MRLs for florpyrauxifen-benzyl in accordance with the process outlined in the Next steps Section of this document, and with the process outlined in PRD2022-17.

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 [Canada's Notification Authority and Enquiry Point](#).

Proposed MRLs

The proposed MRLs for florpyrauxifen-benzyl are summarized in Table 1.

Table 1 Proposed maximum residue limits for florpyrauxifen-benzyl

Common name	Residue definition	MRL (ppm) ¹	Food commodity
Florpyrauxifen-benzyl	Phenylmethyl 4-amino-3-chloro-6-(4-chloro-2-fluoro-3-methoxyphenyl)-5-fluoro-2-pyridinecarboxylate including the metabolite 4-amino-3-chloro-6-(4-chloro-2-fluoro-3-methoxyphenyl)-5-fluoro-2-pyridinecarboxylic acid (free and conjugated forms), expressed as parent equivalents.	0.06	Meat byproducts of cattle, goats, horses and sheep
		0.02	Root and tuber vegetables (crop group 1); legume vegetables (crop group 6-21); cereal grains (crop group 15-21); oilseeds (crop group 20) (revised); fat and meat of cattle, goats, horses and sheep; hazelnuts, milk

¹ ppm = parts per million

The commodities included in the listed crop groups/subgroups can be found on the [Residue Chemistry Crop Groups](#) webpage in the [Pesticides section](#) of Canada.ca.

MRLs established in Canada may be found using the [Maximum Residue Limit Database](#) on the [Maximum Residue Limits for Pesticides](#) webpage. The database allows users to search for established MRLs, regulated under the *Pest Control Products Act*, both for pesticides or for food commodities.

International situation and trade implications

Currently, there are no American tolerances for florpyrauxifen-benzyl in or on the petitioned commodities listed in the [Electronic Code of Federal Regulations](#), 40 CFR Part 180, by pesticide, nor are there Codex MRLs² listed for florpyrauxifen-benzyl in or on the petitioned commodities on the Codex Alimentarius [Pesticide Index](#) webpage.

² The Codex Alimentarius Commission is an international organization under the auspices of the United Nations that develops international food standards, including MRLs.

Next steps

Health Canada invites the public to submit written comments on the proposed MRLs for florpyrauxifen-benzyl 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). Health Canada will consider all comments received and a science-based approach will be applied in making a final decision on the proposed MRLs. Comments received will be addressed in a separate document linked to this PMRL. The established MRLs will be legally in effect as of the date that they are entered into the [Maximum Residue Limit Database](#).