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Proposed Maximum Residue Limit

PMRL2013-101

2,4-D

(publié aussi en français)

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Under the authority of the *Pest Control Products Act*, Health Canada's Pest Management Regulatory Agency (PMRA) has concluded that the addition of new uses on soybeans and highbush blueberries to the product labels of Nufarm 2,4-D Ester 700 Liquid Herbicide and IPCO 2,4-D Amine 600 Liquid Herbicide, respectively, containing technical grade 2,4-D, is acceptable. The specific uses approved in Canada are detailed on the label of Nufarm 2,4-D Ester 700 Liquid Herbicide and IPCO 2,4-D Amine 600 Liquid Herbicide, Pest Control Products Act Registration Numbers 27820 and 17511, respectively.

The evaluation of these 2,4-D applications indicated that the end-use products have merit and value and the human health and environmental risks associated with the new uses are acceptable.

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 2,4-D is being conducted via this document (see Next Steps, the last section of this document). A summary of the field trial data used to support the proposed MRLs can be found in Appendix I.

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, to be added to the MRLs already established for 2,4-D, are as follows.

Table 1 Proposed Maximum Residue Limits for 2,4-D

| Common Name | Residue Definition | MRL (ppm) | Food Commodity |
|-------------|----------------------------------|-----------|---|
| 2,4-D | (2,4-dichlorophenoxy)acetic acid | 0.01 | Bushberry Subgroup (Crop Subgroup 13-07B) |
| | | 0.02 | Dry soybeans |

ppm = parts per million

MRLs are proposed for each commodity included in the listed crop groupings in accordance with the Residue Chemistry Crop Groups webpage in the Pesticides and Pest Management section of Health Canada's website.

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

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.

Table 2 compares the MRLs proposed for 2,4-D in Canada with corresponding American tolerances and Codex MRLs.¹ American tolerances are listed in the Electronic Code of Federal Regulations, 40 CFR Part 180, by pesticide. A listing of established Codex MRLs is available on the Codex Alimentarius Pesticide Residues in Food website, by pesticide or commodity.

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

| Food Commodity | Canadian MRL (ppm) | American Tolerance (ppm) | Codex MRL (ppm) |
|--|-------------------------------|-------------------------------------|---|
| Bushberry Subgroup (Crop Subgroup 13-07B) | 0.01 | 0.2 (Berry, group 13) | 0.1 (Berries and other small fruits) |
| Dry soybeans | 0.02 | 0.02 (Soybean, seed) | 0.01 (Soya bean, (dry)) |

Next Steps

The PMRA invites the public to submit written comments on the proposed MRLs for 2,4-D 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. 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.

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

Appendix I

Summary of Field Trial Data Used to Support the Proposed MRLs

Residue data from field trials conducted in the United States were submitted to support the domestic use of Nufarm 2,4-D Ester 700 Liquid Herbicide and IPCO 2,4-D Amine 600 Liquid Herbicide on soybeans and highbush blueberries, respectively. 2,4-D was applied to soybeans and highbush blueberries, which were harvested according to label directions.

Maximum Residue Limits

The recommendation for maximum residue limits (MRLs) for 2,4-D was based upon the submitted field trial data, and the guidance provided in the OECD MRL Calculator. Table A1 summarizes the residue data used to calculate the proposed MRLs for dry soybeans and crops included in the Bushberry Subgroup.

Table A1 Summary of Field Trial Data Used to Support Maximum Residue Limits

| Commodity | Application Method/ Total Application Rate (kg a.e./ha) | PHI (days) | Residues (ppm) | |
|----------------------|---|---------------|----------------|-------|
| | | | Min | Max |
| Soybean seed | Pre-plant broadcast/ 0.55–3.27 | 124–157 | <0.01 | <0.02 |
| Highbush blueberries | Directed spray between the rows of blueberries/ 3.14–6.18 | 28–31 | <0.01 | 0.013 |

PHI = preharvest interval; ppm = parts per million

Following the review of all available data, an MRL of 0.01 and 0.02 ppm is recommended to cover residues of 2,4-D in crops included in the bushberry subgroup and dry soybeans, respectively. Residues of 2,4-D in these commodities at the proposed MRLs will not pose an unacceptable risk to any segment of the population, including infants, children, adults and seniors.