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Established Maximum Residue Limit

EMRL2009-31

# Carfentrazone-ethyl

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Under the authority of the *Pest Control Products Act*, Health Canada's Pest Management Regulatory Agency (PMRA) has granted full registration to technical grade carfentrazone-ethyl and the end-use product AIM EC for use in Canada on root and tuber vegetables (Crop Group 1), bulb vegetables (Crop Group 3), leafy vegetables (Crop Groups 4 and 5), legume vegetables (Crop Group 6), fruiting vegetables (Crop Group 8), cucurbit vegetables (Crop Group 9), pome fruits (Crop Group 11), stone fruits (Crop Group 12), berries (Crop Group 13), cereal grains (Crop Group 15), oilseeds (Crop Group 20), grapes 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 AIM EC, *Pest Control Products Act* Registration Number 28573.

Corresponding maximum residue limit (MRLs) were proposed in accordance with the document published on 30 June 2009, Proposed Maximum Residue Limit PMRL2009-02, *Carfentrazone-ethyl*.

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

The PMRA received no comments in response to consultations for the proposed carfentrazone-ethyl MRLs.

The following MRLs are legally in effect as of the publication date of this document.

## Established Maximum Residue Limits for Carfentrazone-ethyl

Common Name	Residue Definition	MRL (ppm)	Food Commodity
Carfentrazone-ethyl	ethyl $\alpha$ , 2-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorobenzenepropanoate, including the metabolite $\alpha$ , 2-dichloro-5-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-4-fluorobenzenepropanoic acid	0.8	Milling fractions of barley, buckwheat, millet, oat, rye, triticale and wheat
		0.25	Sorghum
		0.1	Root and tuber vegetables (Crop Group 1), bulb vegetables (Crop Group 3), leafy vegetables except <i>Brassica</i> (Crop Group 4), <i>Brassica</i> (cole) leafy vegetables (Crop Group 5), legume vegetables (Crop Group 6), fruiting vegetables (Crop Group 8), cucurbit vegetables (Crop Group 9), pome fruits (Crop Group 11), stone fruits (Crop Group 12), berries (Crop Group 13), cereal grains (Crop Group 15) except rice and sorghum, oilseeds (Crop Group 20), grapes, strawberries
		0.1	Fat, meat and meat byproducts of cattle, goats, horses and sheep
		0.05	Milk

MRLs are established 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.

## Appendix I Crop Groups: Numbers and Definitions

Crop Group Number	Name of the Crop Group	Food Commodities Included in the Crop Group
1	Root and tuber vegetables	Arracacha Arrowroot Black salsify roots Carrot roots Cassava roots Celeriac roots Chayote roots Chicory roots Chinese artichokes Chufa Edible burdock roots Edible canna Garden beet roots Ginger roots Ginseng roots Horseradish roots Jerusalem artichokes Lerens Oriental radish roots Parsnip roots Potatoes Radish roots Rutabaga roots Salsify roots Skirret roots Spanish salsify roots Sugar beet roots Sweet potato roots Tanier corms Taro corms True yam tubers Turmeric roots Turnip roots Turnip-rooted chervil roots Turnip-rooted parsley roots Yam bean roots

Crop Group Number	Name of the Crop Group	Food Commodities Included in the Crop Group
3	Bulb vegetables	Dry bulb onions Garlic Great headed garlic Green onions Leeks Potato onions Rakkyo Shallots Tree onion tops Welsh onion tops
4	Leafy vegetables except <i>Brassica</i>	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

Crop Group Number	Name of the Crop Group	Food Commodities Included in the Crop Group
5	<i>Brassica</i> (cole) leafy vegetables	Bok choy Chinese cabbages Broccoli Broccoli raab Brussels sprouts Cabbages Cauliflower Chinese broccoli Chinese mustard cabbages Collards Kale Kohlrabi Mustard greens Mustard spinach Napa Chinese cabbages Rape greens
6	Legume vegetables	Dry adzuki beans Dry beans Dry blackeyed peas Dry broad beans Dry catjang seed Dry chickpeas Dry cowpea seed Dry field peas Dry guar seed Dry kidney beans Dry lablab beans Dry lentils Dry lima beans Dry moth beans Dry mung beans Dry navy beans Dry pigeon peas Dry pink beans Dry pinto beans Dry rice beans Dry southern peas Dry soybeans Dry tepary beans Dry urd beans Edible-podded dwarf peas Edible-podded jackbeans Edible-podded moth beans

Crop Group Number	Name of the Crop Group	Food Commodities Included in the Crop Group
		Edible-podded peas Edible-podded pigeon peas Edible-podded runner beans Edible-podded snap beans Edible-podded snow peas Edible-podded soybeans Edible-podded sugar snap peas Edible-podded swordbeans Edible-podded wax beans Edible-podded yardlong beans Grain lupin Succulent shelled blackeyed peas Succulent shelled broad beans Succulent shelled cowpeas Succulent shelled English peas Succulent shelled garden peas Succulent shelled green peas Succulent shelled lima beans Succulent shelled peas Succulent shelled pigeon peas Succulent shelled southern peas
8	Fruiting vegetables	Bell peppers Eggplants Groundcherries Non-bell peppers Pepinos Pepper hybrids Tomatillos Tomatoes



Crop Group Number	Name of the Crop Group	Food Commodities Included in the Crop Group
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
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
13	Berries	Blackberries Blueberries Currants Elderberries Gooseberries Huckleberries Loganberries Raspberries

Crop Group Number	Name of the Crop Group	Food Commodities Included in the Crop Group
15	Cereal grains	Barley Buckwheat Field corn Oats Pearl millet Popcorn grain Proso millet Rice* Rye Sorghum* Sweet corn kernels plus cob with husks removed Teosinte Triticale Wheat Wild rice
20	Oilseeds	Flaxseed Mustard seeds (oilseed type) Rapeseed (canola) Safflower seeds Sunflower seeds

\* These commodities are excluded from the 0.1 ppm MRL established for cereal grains. An MRL for rice is not being established and a distinct MRL of 0.25 ppm is established for sorghum.