



Re-evaluation Note

REV2003-05

Pest Control Products Under Re-evaluation

Discontinuation of Agricultural Products Registered Under the *Pest Control Products Act* and Proposed Changes to Maximum Residue Limits Under the *Food and Drugs Act*

Regulatory Directive DIR2001-03, *PMRA Re-evaluation Program*, indicated that the Pest Management Regulatory Agency (PMRA) intended to review the continued acceptability of 405 active ingredients and their associated end-use products under Section 19 of the Pest Control Products (PCP) Regulations.

Since the initiation of the re-evaluation program, the registrations of a number of active ingredients and their associated end-use products have been discontinued by registrants. In such cases, the PMRA does not schedule the pesticide for further review and a phase-out schedule including expiry dates for existing product is established. Also, for agricultural products, the PMRA recommends that the Food and Drug Regulations be amended so that food with quantifiable residues of these discontinued pesticides cannot be sold in Canada once the Canadian use has been phased out, unless additional data to support residues in imported food are provided.

The purpose of this document is:

- to inform interested parties of active ingredients that have been discontinued since initiation of the re-evaluation program;
- to indicate proposed changes to the maximum residue limits (MRLs), and invite comments on the proposed implementation date for these changes resulting from the discontinuation of agricultural pesticides;
- to request that interested parties contact the PMRA to indicate their intent to petition for establishment of import MRLs for discontinued pesticides.

Please forward all comments or requests to the Publication Coordinator at the address below within 60 days of the date of publication of this document.

The implementation of the proposals outlined in this document completes the re-evaluation of these active ingredients.

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1.0 Purpose

Regulatory Directive DIR2001-03, *PMRA Re-evaluation Program*, indicated that the PMRA intended to review the continued acceptability of 405 active ingredients and their associated end-use products under Section 19 of the PCP Regulations.

The purpose of this document is:

- to inform interested parties of active ingredients that have been discontinued;
- to indicate the proposed changes to the MRLs for discontinued agricultural pesticides, and the time frames for those changes;
- to request that interested parties contact the PMRA to indicate their intent to petition for establishment of import MRLs for discontinued agricultural pesticides.

2.0 General background on re-evaluation

The PMRA is re-evaluating, under Section 19 of the Regulations pursuant to the *Pest Control Products Act*, all pesticides, both active ingredients and formulated end-use products that were registered prior to 1995 to ensure that their continued acceptability is examined using current scientific approaches. Regulatory Directive DIR2001-03, *PMRA Re-evaluation Program*, outlines the details of the re-evaluation activities.

Since the initiation of the re-evaluation program, certain registrants have chosen not to support the continued registration of particular active ingredients, resulting in the discontinuation of the registration of their technical active ingredients and any end-use products formulated with that active ingredient. In such cases, the PMRA does not schedule the pesticide for further review, and Canadian use is phased out by establishing the last date of use (i.e., the expiry date) for existing product.

3.0 Changes to the residue limits of discontinued agricultural products

In general, when the use of an agricultural pesticide is discontinued and phased out in Canada, the PMRA intends to recommend that Table II, Division 15 of the Food and Drug Regulations (FDR) be amended to indicate new maximum residue limits (MRLs) at the limit of quantification for all raw agricultural commodities, unless additional data are provided to support MRLs for imported produce. The USEPA undertakes similar action in such circumstances.

If additional data are not provided, the proposed amendments to the Food and Drug Regulations will be published in the Canada Gazette. Once the new MRLs are finalized, the sale of food with residues exceeding these MRLs would be prohibited.

The timing of the amendments to the MRLs will be adjusted for each active ingredient to reflect the phase-out schedule of the discontinued products. When the registration of an agricultural chemical is discontinued, existing product may be applied to crops following the label instructions until the expiry date, which is determined at the time the product is discontinued. The PMRA proposes that, under normal circumstances, the existing MRLs remain for an additional year after the last expiry date of all the products containing that pesticide to allow food treated legally in Canada to clear the channels of trade.

4.0 Lists of affected pesticides

Table 1 lists recently discontinued pesticidal active ingredients that could be used on food in Canada or elsewhere and information used in determining the earliest date proposed MRL changes would take effect. As indicated in Column III of Table 1, details of the last date of use on a particular commodity, or of a particular product are available in the published announcements, or Appendix 1. Column IV indicates the last date any product containing that active may be applied to any crops. As indicated in column V, the PMRA proposes to allow an additional year for treated produce to clear the channels of trade before the applicable MRLs are changed, unless sufficient information supporting import MRLs is provided as a result of this consultation. The effective date of the MRL change may be later, depending on the time needed for processing the amendment.

Table 1 Recently discontinued pesticide active ingredients, their expiry dates for use in Canada and the proposed earliest date for amending the MRL in Canada

I	II	III	IV	V	VI
Active ingredient	Type of pesticide	Details on specific products and uses	Last date of application of any product for any use (expiry date)	Earliest date the MRL change would take effect. Once the MRL is amended, food in commerce may not contain detectable residues	Notes
Cyanazine	Herbicide	Appendix I	Dec 31, 2004	Dec 31, 2005	
Vernolate	Herbicide	Appendix I	Dec 19, 2002	Dec 19, 2003	
Asulam	Herbicide	Appendix I	Dec 19, 2002	Dec 19, 2003	
Metobromuron	Herbicide	Appendix I	Dec 31, 2005	Dec 31, 2006	
Fluazifop-butyl (racemic mix)	Herbicide	Appendix I	Dec 19, 2002	Dec 19, 2003	1
TCA	Herbicide	Appendix I	Dec 31, 2006	Dec 31, 2003	2
Anilazine	Fungicide	Appendix I	Dec 31, 2005	Dec 31, 2006	

I	II	III	IV	V	VI
Active ingredient	Type of pesticide	Details on specific products and uses	Last date of application of any product for any use (expiry date)	Earliest date the MRL change would take effect. Once the MRL is amended, food in commerce may not contain detectable residues	Notes
Benomyl	Fungicide	Appendix I	Dec 31, 2003	Dec 31, 2004	3
Disulfoton	Insecticide	Appendix I	Jul 1, 2005	Jul 1, 2006	
Sodium fluosilicate	Insecticide	Appendix I	Dec 31, 2004	Dec 31, 2005	4
Sulfotep	Insecticide Acaricide	Appendix I	Dec 31, 2004	Dec 31, 2005	
Ethion	Insecticide	REV2001-03	Dec 31, 2003	Dec 31, 2004	
Ethyl parathion	Insecticide	REV2001-02	Oct 31, 2003	Oct 31, 2004	5
Methidathion	Insecticide	REV2001-01	Dec 31, 2002	Dec 31, 2003	6
Lindane	Insecticide	REV2002-02	Dec 31, 2004	Dec 31, 2005	7

- 1 Residues may overlap with fluazifop p isomer (FZA); therefore, MRL changes may be delayed pending review of this active
- 2 Canadian treated food is not an issue in the timing of proposed amendments because this active is not registered for use on food crops in Canada
- 3 Residues may overlap with thiophanate methyl; therefore, MRL changes may be delayed pending review of this active
- 4 As this active has non-pesticidal uses which may result in dietary exposure, a specific MRL in the FDR may not be established
- 5 The registrant has already expressed interest in supporting import MRLs for citrus and for animal products
- 6 The registrant has already expressed interest in supporting import MRLs for citrus, pome fruit, stone fruit, grapes and olives
- 7 Phased out through discontinuation by registrants or through suspension of registration

Table 2 lists active ingredients which have been discontinued by the registrants, and all end-use products have now expired for more than one year. For products that were registered for food uses, all treated produce in Canada should have already cleared the channels of trade. At present, residues on food must not exceed 0.1 ppm, a default value specified by the Food and Drug Regulations subsection B.15.002(1). The PMRA intends to recommend new MRLs at the limit of quantification be established, unless sufficient information supporting import MRLs is provided as a result of this consultation. Once the new MRLs are finalized, the sale of food with residues exceeding these MRLs would be prohibited.

Table 2 Discontinued pesticide active ingredients that have not been registered for use on food in Canada for more than one year

Amendments to the MRLs can be proposed without a delay to allow treated produce to clear the channels of trade.

Active ingredient	Type of pesticide	Trade or other common name	Latest expiry date of any registered product	Notes
Dinoseb	Herbicide	—	Dec 31, 2000	
Chloramben	Herbicide	—	Dec 31, 2000	1
Diphenamid	Herbicide	—	Dec 31, 1990	2
Dichlorflurecol-methyl	Plant growth regulator	—	Dec 31, 2001	
Dichlone	Fungicide	Phygon	Dec 31, 2001	
Carbendazim phosphate	Fungicide	—	Dec 31, 2000	1,3
Isofenphos	Insecticide	Amaze	Dec 31, 1992	2
Fonofos	Insecticide	—	Dec 31, 2001	
Aldicarb	Acaricide, insecticide	Temik	Dec 31, 1996	
Cresylic acid	Farm Disinfectant	Creol, Cresozene	Dec 31, 2000	
Methiocarb	Molluscicide	—	Sep 5, 2001	1

Notes:

- 1 Not registered for food use in Canada, but may be applied to food crops in other countries
- 2 Discontinued prior to the formal initiation of re-evaluation program
- 3 Residues may overlap with thiophanate methyl; MRL changes may be delayed pending review of this active

5.0 Conclusion

Parties interested in supporting an MRL to allow imports of specific commodities treated with pesticides indicated in this proposal should contact the PMRA within 60 days of publication of this document. Similarly, comments regarding the proposed date of changes to the MRLs should be sent to the PMRA within this time frame.

Appendix I Additional information regarding discontinued products that may still be used according to the label directions until the expiry date, that have no previously published reevaluation notes

Active ingredient	Product type(s)	Marketing type	Reg. No.	Product name	Uses	Expiry date
Asulam	Herbicide	Commercial	11341	Asulox F Liquid Selective Weedkiller	blueberry, flax, noncrop fields, woodlands	Dec 31, 2002
Cyanazine	Herbicide	Technical	18489	Technical Cyanazine (Bladex Herbicide)	manufacturing	Dec 31, 2004
		Manufacturing Concentrate	21857	Cyanazine 500 SC Manufacturing Concentrate	manufacturing	Dec 31, 2004
		Commercial	17901	Bladex Liquid Agricultural Herbicide	corn, sweet corn, rape	Dec 31, 2004
		Commercial	19159	DuPont Bladex 90 DF Agricultural Herbicide	corn, sweet corn	Dec 31, 2004
		Commercial	23572	Extrazine II DF Herbicide	corn, sweet corn	Dec 31, 2004
Metobromuron	Herbicide	Technical	20740	Technical Metobromuron	manufacturing	Oct 22, 2002
		Technical	21493	Ciba-Geigy Technical Active Ingredient Metobromuron	manufacturing	Dec 19, 2002
		Manufacturing Concentrate	20735	BASF Metobromuron Manufacturing Concentrate	manufacturing	Oct 22, 2002
		Commercial	14980	Patoran 400SC Agricultural Suspension Herbicide	beans, potatoes, soybeans, lupins	Dec 31, 2005
Fluazifop-butyl racemic mix	Herbicide	Technical	20152	Chipman Fluazifop-butyl Technical Herbicide	manufacturing	Dec 19, 2002
		Commercial	18013	Fusilade 250 EC Herbicide Agricultural	food, forests, tobacco, ornamental	Dec 19, 2002
Vernolate	Herbicide	Commercial	9927	Vernam 7.2-E Emulsifiable Liquid Selective Herbicide	peanuts, soybeans	Dec 19, 2002
		Technical	22788	Vernam Technical	manufacturing	Dec 19, 2002
		Commercial	16613	Surpass 8-E Selective Herbicide	corn	Dec 31, 2002
TCA	Herbicide	Commercial	16877	Certifen Liquid Weed Killer	non-crop fields, fencerows, rights of way	Dec 31, 2006
		Commercial	16498	National Chemsearch Fenocil Liquid Weed Killer	non-crop fields, fencerows, rights of way	Dec 31, 2006
Anilazine	Fungicide	Commercial	22090	Dyrene Solupak 50% Wettable Powder	berries, celery, cantaloupe, cranberry, cucumber, garlic, ginseng, melons, leeks, onion, potato, pumpkin, squash, tomato, watermelon, tobacco, turf	Dec 31, 2005

Active ingredient	Product type(s)	Marketing type	Reg. No.	Product name	Uses	Expiry date
Benomyl	Fungicide	Technical	21979	Benomyl Technical Herbicide	manufacturing	Sep 30, 2003
		Domestic	15373	Greenleaf Benomyl Systemic Fungicide 50% WP	apple, apricot, cherry, crabapple, peach, plum, ornamentals, lawns	Dec 31, 2002
		Domestic	11542	Later's Benomyl 50 Systemic Fungicide	apple, apricot, cherry, crabapple, peach, plum, ornamentals, lawns	Dec 31, 2003
		Domestic	11548	Wilson Benomyl Systemic Fungicide Wettable Powder	apple, apricot, blackberry, cherry, crabapple, cucumber, grape, melon, nectarine, peach, plum, pumpkin, raspberry, squash, strawberry	Dec 31, 2003
		Commercial	11061	Tersan 1991 Turf Fungicide Wettable Powder	turf, ornamentals	Dec 31, 2003
		Commercial	11062	Benlate Fungicide Wettable Powder	alfalfa, apple, apricot, asparagus, bean, blackberry, carrot, cherry, crabapple, cucumber, dill, grape, melon, mushroom, nectarine, peach, pear, plum, pumpkin, canola, raspberry, squash, strawberry, tobacco, tomato, ornamentals	Sep 30, 2003
		Commercial	24678	Benlate Toss-N-Go Fungicide Wettable Powder	bean, cucumber, fruit, mushroom, tobacco, tomato, vegetables, canola, conifers	Sep 30, 2003
		Commercial	25871	IpcO Benolin C Canola/Rapeseed Seed Treatment	canola	Jan 27, 2003
		Commercial	11061.01	Tersan 1991 Turf Fungicide	turf, ornamental	Dec 31, 2003
Sodium Fluosilicate	Insecticide	Domestic	6954	Later's Weevil and Earwig Bait	strawberry, ornamental trees and plants, lumber	Dec 31, 2004
Disulfoton	Insecticide Acaricide	Restricted	9519	Di-syston 15% Granular Systemic Insecticide	barley, beans, cole crops, corn, eggplant, lettuce, oats, peas, pepper, potato, spinach, strawberry, tomato, wheat, tree fruits, ornamental plants and trees	Jul 1, 2005
Sulfotep	Insecticide, Acaricide	Restricted	3891	Plant-fume 103 Insecticide Smoke Fumigator	greenhouse ornamentals (used on food crops outside of Canada)	Dec 31, 2004