



# Re-evaluation Note

REV2005-04

## PMRA Re-evaluation Program (April 2005 to June 2009)

The purpose of this document is to provide advance notice to registrants, pesticide regulatory officials and the Canadian public of the active ingredients that will be re-evaluated by the Pest Management Regulatory Agency (PMRA) from April 2005 to June 2009.

*(publié aussi en français)*

**9 May 2005**

This document is published by the Alternative Strategies and Regulatory Affairs Division, Pest Management Regulatory Agency. For further information, please contact:

**Publications**  
Pest Management Regulatory Agency  
Health Canada  
2720 Riverside Drive  
A.L. 6605C  
Ottawa, Ontario  
K1A 0K9

Internet: [pmra\\_publications@hc-sc.gc.ca](mailto:pmra_publications@hc-sc.gc.ca)  
[www.pmra-arla.gc.ca](http://www.pmra-arla.gc.ca)

Information Service:  
1 800 267-6315 or (613) 736-3799  
Facsimile: (613) 736-3758



ISBN: 0-662-40361-4 (0-662-40362-2)  
Catalogue number: H113-5/2005-4E (H113-5/2005-4E-PDF)

**© Her Majesty the Queen in Right of Canada, represented by the Minister of Public Works and Government Services  
Canada 2005**

All rights reserved. No part of this information (publication or product) may be reproduced or transmitted in any form or by any means, electronic, mechanical photocopying, recording or otherwise, or stored in a retrieval system, without prior written permission of the Minister of Public Works and Government Services Canada, Ottawa, Ontario K1A 0S5.

## The Re-evaluation Program

The PMRA's approach to re-evaluation is described in Regulatory Directive [DIR2001-03](#), *PMRA Re-evaluation Program*. The approach to re-evaluation, recommended by stakeholders and supported by the Pest Management Advisory Council, is to build on available foreign reviews and expand on the extensive worksharing arrangements with the United States Environmental Protection Agency (USEPA). The four subprograms are as follows:

**PROGRAM 1** requires a suitable foreign review that covers the main science areas necessary for Canadian regulatory decisions, addresses the active ingredient itself and its main formulation types registered in Canada, and is relevant to registered Canadian uses.

USEPA Re-registration Eligibility Decision (RED) documents will be the primary source of foreign reviews for Program 1 re-evaluations. PMRA conclusions on the Program 1 re-evaluations will be based on the RED document, with consideration of the Canadian use pattern and Canadian issues (e.g., the federal Toxic Substances Management Policy). The need for further targeted review may be determined following the initial Program 1 re-evaluation.

**PROGRAM 2** includes products for which a Canadian regulatory decision requires a detailed in-house re-evaluation covering the full range of assessments of the risks to human health and the environment as well as consideration of value. In contrast to Program 1, Program 2 has no fully suitable foreign review document on which the PMRA could rely to a substantial degree in its decision making.

**PROGRAM 3** focusses on the re-evaluation of pest control products that are scheduled for re-assessment in the United States under the *Food Quality Protection Act* (FQPA). Program 3 addresses the reassessment of pest control products, paying particular attention to pest control products with a common mechanism of toxicity, and the aggregate exposures arising from all sources and from all uses as well as the risks to susceptible subgroups in the exposed population, such as children.

**PROGRAM 4** is a program of targeted re-evaluations (i.e., special reviews). It comprises reviews initiated to address particular concerns identified for specific pest control products and does usually not entail a complete re-evaluation of a product's database.

Regulatory Directive DIR2001-03 indicated that 405 active ingredients registered in Canada prior to 31 December 1994 would be included in PMRA's re-evaluation program. The number of active ingredients was reduced to 401 when 4 disinfectant products were no longer registered under the *Pest Control Products Act*.

The strong reliance on the availability of USEPA reviews ties the completion date of the Canadian program to that of the American program. The PMRA intends to complete its current re-evaluation program within the same time frame as the USEPA, i.e., by 2008–2009. The PMRA will report on the progress achieved in each fiscal year.

## Active Ingredients in the Re-evaluation Program

The present document lists the active ingredients in the current program that may not have been included in previous announcements or workplan documents. The program under which each active ingredient will be re-evaluated will largely depend on the availability of suitable international (e.g., USEPA) reviews. This information will be published in annual workplans detailing the list of reviews targeted for completion. Registrants will be informed by letter when the re-evaluation of active ingredients in their products is formally initiated.

Re-evaluation activities for most of these active ingredients will need to begin prior to announcement of the completion target date in the annual workplan. At this time, registrants should consider whether they will be supporting registrations of the active ingredients in Table 1. Registrants may also be contacted for additional information in advance of the publication of the workplan, as needed. For example, a data index may be requested on a case-by-case basis. The indices ensure that PMRA is aware of all available data, including studies that are in progress, for the purpose of re-evaluation.

As indicated in DIR2001-03, the PMRA will also consider information such as monitoring data from provincial and territorial regulatory agencies, other governmental departments and other stakeholders. Stakeholders may wish to compile these data and submit them to the PMRA after the formal initiation of re-evaluation of these active ingredients.

Prior to a formal re-evaluation announcement, products containing active ingredients in Table 1 will not be subject to limitations in change of use pattern.

**Table 1 Active Ingredients to Be Addressed in Years 2005–2009**

Chemical Name (on PMRA record)	CAS No.*
1,2-benzisothiazolin-3-one	2634-33-5
1,3-dichloro-5,5-dimethylhydantoin (Halane)	118-52-5
1,3-dichloro-5-ethyl-5 methylhydantoin	54445
1,4-bis(bromoacetoxy)-2-butene	20679-58-7
1-alkyl (C8-C18)-1,3-propanediamine acetate	N/A
1-alkyl (C6-C18)-1,3-propane diamine	61791-63-7
2-(thiocyanomethylthio)benzothiazole	21564-17-0
2,4-DB present as mixed butyl esters or as isooctyl esters	94-82-6
3-(trimethoxysilyl)-propyldimethyloctadecyl ammonium chloride	27668-52-6
3-chloro-1,2-propanediol	96-24-2

<b>Chemical Name (on PMRA record)</b>	<b>CAS No.*</b>
5-chloro-2(2,4-dichlorophenoxy)phenol	3380-34-5
Acrolein	107-02-8
Amitraz	33089-61-1
Amitrole	61-82-5
Arsenic present as monosodium methane arsonate	2163-80-6
Arsenic pentoxide	1303-28-2
Asphalt solids	8052-42-4
Avitrol	504-24-5
2-bromo-b-nitrostyrene	7166-19-0
Bentazon	25057-89-0
Benzoic acid	65-85-0
Bromoxynil present as the ester of n-octanoic acid or n-pentanoic acid	1689-99-2
Butoxypolypropylene glycol	9003-13-8
Captan	133-06-2
Carbaryl	63-25-2
Carbathiin	5234-68-4
Carbofuran	1563-66-2
Chloridazon	1698-60-8
Chlormequat chloride	999-81-5
Chloroacetamide	79-07-2
Chloroneb	2675-77-6
Chloropicrin	76-06-2
Chlorothalonil	1897-45-6
Chlorsulfuron	64902-72-3
Chlorthal acid or chlorthal dimethyl ester	2136-79-0 or 1861-32-1
Cholecalciferol	67-97-0

<b>Chemical Name (on PMRA record)</b>	<b>CAS No.*</b>
Clethodim	99129-21-2
Clofentezine	74115-24-5
Clomazone	81777-89-1
Clopyralid	1702-17-6
Coal tar acids	108-95-2
Copper 8-quinolinolate	10380-28-6
Copper hydroxide	20427-59-2
Copper naphthenate	1338-02-9
Copper oxychloride	1332-40-7
Copper sulphate	55200-89-0
Copper sulphate pentahydrate	7758-98-7
Cuprous oxide	1317-39-1
Cypermethrin	52315-07-8
Dazomet	533-74-4
D-cis, trans allethrin	584-79-2
Deltamethrin	52918-63-5
Denatonium benzoate	3734-33-6
Desmedipham	13684-56-5
Dialkyl (5% C12, 60% C14, 30% C16, 5% C18) methyl benzyl ammonium chloride	73049-75-9
Dichloran	99-30-9
Dichlorprop butoxyethyl ester or dichlorprop isooctyl ester	53404-31-2 or 28631-35-8
Dichlorprop present as dimethylamine salt	N/A
Diclofop-methyl	51338-27-3
Dicofol	115-32-2
Didecyl dimethyl ammonium chloride	7173-51-5
Diisobutylphenoxyethoxyethyl dimethyl benzyl ammonium chloride	121-54-0

<b>Chemical Name (on PMRA record)</b>	<b>CAS No.*</b>
Dimethenamid	87674-68-8
Dimethoate	60-51-5
Dinitrophenol	51-28-5
Dinocap plus related active compounds	6119-92-2
Di-n-propyl isocinchomeronate (non-repellant uses)	136-45-8
Diocetyl dimethyl ammonium chloride	5538-94-3
Diodofon	20018-09-1
Distearyl (15% C16, 85% C18) dimethyl ammonium chloride	107-64-2
Dithiopyr	97883-45-8
Dodemorph-acetate	31717-87-0
Dodine	2439-10-3
D-trans allethrin	584-79-2
Endosulfan	115-29-7
Endothall	145-73-3
EPTC	759-94-4
Ethalfuralin	55283-68-6
Ethametsulfuron-methyl	97780-06-8
Ethephon	16672-87-0
Ethofumesate	67293-74-7
Ethylene oxide	75-21-8
Fatty acid mixture of pelargonic and capric acid	112-05-0 and 334-48-5
Fenoxaprop-p-ethyl (isomer)	71283-80-2
Ferbam	14484-64-1
Fluazifop-p-butyl	79241-46-6
Fluvalinate	69409-94-5
Folpet	133-07-3

<b>Chemical Name (on PMRA record)</b>	<b>CAS No.*</b>
Formaldehyde	50-00-0
Formetanate hydrochloride	23422-53-9
Glufosinate ammonium	77182-82-2
Glutaraldehyde	111-30-8
Glyphosate acid	1071-83-6
Glyphosate: isopropylamine salt	38641-94-0
Gum resin	N/A
Halobrom	16079-88-2
Hexahydro-1,3,5-tris(2-hydroxyethyl)-s-triazine	4719-04-4
Imazamethabenz	81405-85-8
Imazapyr	81334-34-1
Imazethapyr	81335-77-5
Iodocarb (carbamic acid)	55406-53-6
Iprodione	36734-19-7
Lime sulphur	1344-81-6
Linuron	330-55-2
Maleic hydrazide	123-33-1
Mancozeb	8018-01-7
Maneb	12427-38-2
MCPB	94-81-5
MCPB sodium salt	6062-26-6
Metalaxyl	57837-19-1
Metaldehyde	108-62-3
Metallic copper powder	7440-50-8
Metam	137-42-8
Methyl isothiocyanate	556-61-6
Metiram	9006-42-2



<b>Chemical Name (on PMRA record)</b>	<b>CAS No.*</b>
Metsulfuron-methyl	74223-64-6
Mineral oil (insecticidal or adjuvant)	8012-95-1
Mixture of 1,3-dichloro-5,5-dimethylhydantoin and 1,3-dichloro-5-ethyl-5-methylhydantoin	118-52-5 and 89475-87-2
Myclobutanil	88671-89-0
Nabam	142-59-6
N-alkyl (25% C12, 60% C14, 15% C16) dimethyl benzyl ammonium chloride	68424-85-1
N-alkyl (3% C12, 95% C14, 2% C16) dimethyl benzyl ammonium chloride (myristyl dimethyl benzyl ammonium chloride dihydrate)	139-08-2
N-alkyl (40% C12, 50% C14, 10% C16) dimethyl benzyl ammonium chloride	68424-85-1
N-alkyl (5% C12, 60% C14, 30% C16, 5% C18) dimethyl benzyl ammonium chloride	53516-76-0
N-alkyl (61% C12, 23% C14, 11% C16, 5% C18) dimethyl benzyl ammonium chloride	68391-01-5
N-alkyl (50% C12, 30% C14, 17% C16, 3% C18) dimethyl ethylbenzyl ammonium chloride	68391-01-5
N-alkyl (67% C12, 25% C14, 7% C16, 1% C18) dimethyl benzyl ammonium chloride	68391-01-5
N-alkyl (68% C12, 32% C14) dimethyl ethylbenzyl ammonium chloride	85409-23-0
N-alkyl-1,3 propanediamine monobenzoate	68188-29-4
Naphthalene	91-20-3
Naphthaleneacetamide	86-86-2
Naphthylacetic acid	86-87-3
Napropamide	15299-99-7
Naptalam acid or naptalam sodium salt	132-66-1 or 132-67-2
N-decanol	112-30-1
Nicosulfuron	111991-09-4

Chemical Name (on PMRA record)	CAS No.*
Nicotine or nicotine sulphate	54-11-5 or 65-30-5
N-octanol	111-87-5
o-benzyl-p-chlorophenol	120-32-1
Octyl decyl dimethyl ammonium chloride	5538-94-3
N-octylbicyclo heptene dicarboximide (MGK 264) (non-repellant uses)	113-48-4
o-phenylphenol	90-43-7
Oxadiazon	19666-30-9
Oxamyl	23135-22-0
Oxine benzoate	7091-57-8
Oxirane derivatives	N/A
Oxycarboxin	5259-88-1
Oxydiethylene bis(alkyl dimethyl ammonium chloride)	68609-28-3
p-dichlorobenzene	106-46-7
Paraformaldehyde	110-88-3
Permethrin	52645-53-1
Phenmedipham	13684-63-4
Picloram acid or picloram isooctyl esters or picloram potassium salt	1918-02-1 or 26952-20-5 or 2545-60-6
Picloram present as amine salts (alkanolamine salt, diethanolamine salt or triisopropanolamine salt)	N/A
Pimaricin	7681-93-8
Pine oil	8002-09-3
Piperonyl butoxide	51-03-6
Pirimicarb	23103-98-2
Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene dichloride]	31512-74-0
Potassium dimethyldithiocarbamate	128-03-0

<b>Chemical Name (on PMRA record)</b>	<b>CAS No.*</b>
Potassium N-hydroxymethyl-N-methyldithiocarbamate	51026-28-9
Potassium N-methyldithiocarbamate	137-41-7
Propiconazole	60207-90-1
Propoxur	114-26-1
Propylene glycol	57-55-6
Pyrethrins	121-21-1
Quintozene	82-68-8
Resmethrin	10453-86-8
Rimsulfuron	122931-48-0
Rotenone	83-79-4
Sethoxydim	74051-80-2
Simazine plus related active triazines	122-34-9
Sodium chlorate	7775-09-9
Sodium chlorite	7758-19-2
Sodium dimethyldithiocarbamate	128-04-1
Sodium fluoride	7681-49-4
Sodium o-phenylphenate	132-27-4
Streptomycin present as sulphate	3810-74-0
Sulfaquinoxaline-sodium	59-40-5
Tefluthrin	79538-32-2
Tetramethrin	7696-12-0
Thifensulfuron methyl	79277-27-3
Thiram	137-26-8
Tralkoxydim	87820-88-0
Triasulfuron	82097-50-5
Tribenuron methyl	101200-48-0
Tributyltin oxide	56-35-9

Chemical Name (on PMRA record)	CAS No.*
Triethylene glycol	112-27-6
Trifluralin	1582-09-8
Triforine	26644-46-2
Tri-n-butyltin maleate	4027-18-3
Vinclozolin	50471-44-8
Water soluble dyes registered as pesticides	N/A
Zinc present as zinc naphthenate	12001-85-3
Zineb	12122-67-7
Ziram	137-30-4

\* CAS numbers are included only to assist in identifying active ingredients and will be confirmed at the time of re-evaluation.

N/A A CAS number for this chemical name could not be verified.

**NOTE:** In a few cases, active ingredients that were first registered after 31 December 1994 will be included in the re-evaluation of closely related chemicals in the current program.