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Re-evaluation Note

REV2019-05

# Pest Management Regulatory Agency Re-evaluation and Special Review Work Plan 2019-2024

*(publié aussi en français)*

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## Background

The purpose of this document is to inform registrants, pesticide regulatory officials and the Canadian public of the re-evaluation and special review work planned by Health Canada's Pest Management Regulatory Agency (PMRA) from 1 April 2019 to 31 March 2024. This work plan includes all ongoing re-evaluations and special reviews as well as new re-evaluations expected to be initiated in this time frame. This document replaces the previously published Re-evaluation Note REV2018-06, *Pest Management Regulatory Agency Re-evaluation and Special Review Work Plan 2018-2023*.

Health Canada regulates pesticides in Canada, with the primary objective of protecting the health of Canadians and the environment. A pesticide may only be sold or used in Canada if it has been registered or otherwise authorized under authority of the *Pest Control Products Act*. Health Canada uses a rigorous science-based risk assessment approach to ensure that the product meets health and environmental standards and has value.

As part of the post-market program, registered pesticides are re-evaluated on a cyclical basis using modern assessment techniques and current scientific information. In addition, pesticides may also be re-evaluated as a result of changes in the information required or the procedures used by Health Canada to determine that the pesticide meets current health, environment and value standards. A special review may also be initiated at any time if there are reasonable grounds to believe that the health or environmental risks, or the value, of a pesticide are no longer acceptable. Special reviews differ from re-evaluation in that a special review is intended to examine only specific aspects of a pesticide.

Health Canada publishes all post-market proposed decisions for public consultation. Following consultation, comments and information submitted by the public and other stakeholders are considered before Health Canada issues a final decision. Stakeholders are encouraged to become aware of upcoming consultations, as well as new initiations, for active ingredients by visiting the Pesticides section of Canada.ca ([Canada.ca/pesticides](http://Canada.ca/pesticides)).

This five-year work plan may change in response to workload and to emerging issues that require priority action; thus, while this work plan will be updated annually, during the course of the year interested stakeholders can monitor the PMRA's Public Registry to view the announcement of new re-evaluations and special reviews, as well as the publication of proposed and final decisions.

## Current Re-evaluation Work Plan

In developing the work plan, Health Canada has taken a risk-based approach to prioritize re-evaluations and special reviews where potential risk issues have been identified. Re-evaluations of older pesticide active ingredients registered before 1995, as well as special reviews initiated in 2013, have been prioritized to be completed by 2020. The anticipated publication dates outlined in the work plan represent the most up-to-date information on the status of the re-evaluation or special review. The work plan for the post-market reviews related to pesticide active ingredients registered before 1995, cyclical active ingredients and special reviews are included in Tables 1–6.

Health Canada currently has several ongoing post-market reviews related to the neonicotinoid pesticides imidacloprid, clothianidin and thiamethoxam. All three active ingredients are currently under general re-evaluation. In addition to the re-evaluations, special reviews are underway for all three chemicals related to effects on squash bees, and for clothianidin and thiamethoxam related to effects on aquatic organisms. The combined work plan for the neonicotinoid post-market reviews is provided in Tables 7 and 8.

**Table 1 Anticipated Date of Public Consultation for Active Ingredients Registered Before 1995**

Active Ingredient Name	Date of Consultation
Acephate	May 2019
Chlorothalonil (paints, coatings and related uses)	December 2019
Chlorpyrifos	May 2019
Dazomet (paints, coatings and related uses)	December 2019
Folpet (paints, coatings and related uses)	December 2019
Piperonyl butoxide	January 2020
Pyrethrins	January 2020
Thiophanate methyl	June 2019
Ziram (paints, coatings and related uses)	December 2019

**Table 2 Anticipated Date of Final Decision for Active Ingredients Registered Before 1995**

Active Ingredient Name	Date of Final Decision
Dichlorvos	September 2019
Ethephon	December 2019
Folpet	December 2019
Linuron	February 2020
Mancozeb	June 2020
N-octyl bicyclo heptene dicarboximide	June 2019
Permethrin	June 2019
Phosmet	July 2020
Strychnine	December 2019
Triforine	July 2020

**Table 3 Anticipated Date of Public Consultation for Cyclical Active Ingredients**

Active Ingredient Name	Re-evaluation Category	Date of Consultation
1- or 3-Monomethylol-5,5-dimethylhydantoin	1	December 2019
1,3-Bis(hydroxymethyl)-5,5-dimethylhydantoin	1	December 2019
Abamectin	1	January 2020
Acetamiprid	1	February 2021
Azoxystrobin	1	November 2019
Cymoxanil	1	November 2019
Cyprodinil	1	June 2020
Cyromazine	1	September 2019
D-cis, trans-allethrin	1	December 2020
DEET plus related active toluamides	1	December 2020
Difenoconazole	2	February 2020
Difethialone	3	September 2019
Dimethomorph	1	April 2019

Active Ingredient Name	Re-evaluation Category	Date of Consultation
Dodecylguanidine hydrochloride	1	February 2020
(E,Z)-3,13-octadecadienyl acetate	3	May 2020
Fenhexamid	1	November 2019
Florasulam	1	September 2020
Flucarbazone (present as flucarbazone-sodium)	1	June 2020
Flufenacet	1	January 2020
Isoxaflutole	1	March 2020
Kresoxim-methyl	1	November 2019
Mineral spirits	1	March 2020
P-menthane-3,8-diol	1	October 2020
Pyriproxyfen	1	July 2019
Quizalofop-p-ethyl	1	June 2020
S-kinoprene	1	December 2019
S-metolachlor and R-enantiomer	1	December 2020
Sodium omadine (paints, coatings and related uses)	1	December 2019
Spinosad	1	April 2021
Streptomyces griseoviridis strain K61	3	July 2019
Tebuconazole	1	February 2020
Tebufenozide	1	May 2019
Trinexapac-ethyl	1	April 2020
Triticonazole	1	July 2020
Uniconazole-p	2	August 2019
Zoxamide	1	May 2020
Fenbuconazole	Re-evaluations were recently initiated. The PMRA is currently reviewing the active ingredients to determine the re-evaluation category and timelines.	
Picolinafen		
Pymetrozine		
Pyraclostrobin		
Cumulative Health Risk Assessment: N-methyl carbamates	PMRA is currently reviewing the information received in response to the announcement, in order to determine the expected timeline.	
Propetamphos	All products discontinued, no re-evaluation required	

**Table 4 Anticipated Date of Final Decision for Cyclical Active Ingredients**

Active Ingredient Name	Re-evaluation Category	Date of Final Decision
Clodinafop propargyl	1	January 2020
Copper (present as cuprous thiocyanate)	2	August 2019
Ferrous sulfate	3	February 2020
Fomesafen	1	April 2019
Fosetyl-al	1	September 2019
Lambda-cyhalothrin	1	March 2020

**Table 5 Anticipated Date of Public Consultation for Special Reviews**

Active Ingredient Name	Date of Consultation
Amitrole	October 2020
Atrazine	March 2022
Chlorothalonil	June 2021

Active Ingredient Name	Date of Consultation
Diodofon	January 2020
Glufosinate ammonium	April 2022
Iprodione	July 2020
Linuron	April 2020
Metaldehyde	April 2020
Methyl bromide	August 2020
Naled (1)	April 2019
Naled (2)	April 2019
Pentachlorophenol	August 2019
Picoxystrobin	November 2020
Potassium dimethyldithiocarbamate	July 2020
Pymetrozine (1)	June 2020
Pymetrozine (2)	June 2020
Sodium dimethyldithiocarbamate	July 2020
Tetrachlorvinphos	April 2019

**Table 6 Anticipated Date of Final Decision for Special Reviews**

Active Ingredient Name	Date of Final Decision
Acephate	December 2020
Bromoxynil	June 2019
Dichlorvos	February 2020

**Table 7 Anticipated Date of Public Consultation for Neonicotinoid Active Ingredients**

Active Ingredient Name	Date of Consultation
Clothianidin (general re-evaluation)	June 2020
Clothianidin (special review squash bees)	February 2020
Imidacloprid (special review squash bees)	February 2020
Thiamethoxam (general re-evaluation)	June 2020
Thiamethoxam (special review squash bees)	February 2020

**Table 8 Anticipated Date of Final Decision for Neonicotinoid Active Ingredients**

Active Ingredient Name	Date of Final Decision
Clothianidin (pollinator re-evaluation)	April 2019
Clothianidin (special review aquatic invertebrates)	January 2020
Imidacloprid (general re-evaluation)	January 2020
Imidacloprid (pollinator re-evaluation)	April 2019
Thiamethoxam (pollinator re-evaluation)	April 2019
Thiamethoxam (special review aquatic invertebrates)	January 2020

## New Re-evaluation Initiations

In general, the initiation date of the re-evaluation of a particular active ingredient is based on the date of its initial registration, or the date of the last completed re-evaluation. The re-evaluation process is described in Regulatory Directive DIR2016-04, *Management of Pesticides Re-evaluation Policy*. A complete list of all re-evaluation initiations anticipated between April 2019 and March 2024 is included in Table 9. Information related to the re-evaluation initiation will be posted to the PMRA's Public Registry.

**Table 9 Re-evaluations to be Initiated Between 1 April 2019 and 31 March 2024**

Active Ingredient
2019-2020
4,5-Dichloro-2-n-octyl-3(2H)-isothiazolone
Ancymidol
Boscalid
Corn gluten meal
Dried blood
Famoxadone
Fenamidone
Fluazinam
Foramsulfuron
Glufosinate ammonium
Imiprothrin
Iodosulfuron-methyl-sodium
Mecoprop cluster: Mecoprop-P (present as acid) Mecoprop-P (present as dimethylamine salt) Mecoprop-P (present as potassium salt) Mecoprop-P (present as diglycolamine salt)
Methyl bromide
Mustard cluster: <i>Brassica Hirta</i> White Mustard Seed Powder Sodium alpha-olefin sulfonate
Octadec-9-enoic acid, ethyl ester
Octadec-9-enoic acid, methyl ester
Pheromone cluster: 1-Dodecanol 1-Tetradecanol Codlelure (E,Z)-9-dodecenyl acetate (E,Z)-11-tetradecenal (Z)-9-dodecenyl acetate (Z)-9-tetradecen-1-yl acetate (Z)-9-tricosene (Z)-11-tetradecenal (Z)-11-tetradecen-1-ol (Z)-11-tetradecenyl acetate
Prallethrin
Spinetoram
Trifloxystrobin

<b>Active Ingredient</b>
<b>2020-2021</b>
1,2-Dibromo-2,4-dicyanobutane
10,10'-Oxybis(phenoxarsine)
1-Methylcyclopropene
2-Bromo-4'-hydroxyacetophenone
4-Nitro-3-(trifluoromethyl) phenol sodium salt
Available chlorine, present as lithium hypochlorite
<i>Bacillus Subtilis</i> (strain MBI600)
Bensulide
Bifenazate
Capsaicin
<i>Chondrostereum Purpureum</i> (strain: PFC2139)
Copper (present as cuprous oxide, cupric oxide, metallic copper)
Coumaphos
Daminozide
Etofenprox
Hydramethylnon
Ipconazole
Kaolin
Mesotrione
Methoxyfenozide
Methyl nonyl ketone
Niclosamide
Phorate
Potassium salts of fatty acids
Related capsaicinoids
Silica aerogel
Silicon dioxide (present as 100% diatomaceous earth) - fresh water fossils
Silicon dioxide (present as 100% diatomaceous earth) - salt water fossils
Sulphur
Tepraloxydim
Tetrachlorvinphos
Triethanolamine salts of fatty acids
<b>2021-2022</b>
1-(3-Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride (cis isomer)
2-(Hydroxymethyl)-2-nitro-1,3-propanediol
2,2-Dibromo-3-nitrilopropionamide
2-Methyl-4-isothiazolin-3-one
4-CPA (4-chlorophenoxyacetic acid)
5-Chloro-2-methyl-4-isothiazolin-3-one
6-Benzylaminopurine
Aminopyralid
Available chlorine, present as calcium hypochlorite
Available chlorine, present as sodium dichloro-s-triazinetrione
Available chlorine, present as sodium hypochlorite
Available chlorine, present as trichloro-s-triazinetrione
<i>Bacillus sphaericus</i>
Barium metaborate monohydrate
Bis(trichloromethyl)sulfone
Brodifacoum
Bromacil (present in free form, as dimethylamine salt, or as lithium salt)
Bromadiolone



Active Ingredient
Bronopol
Carbon dioxide gas
Chlorophacinone
Cyazofamid
Dichlobenil
Diflubenzuron
Diphacinone (present in free form or as sodium salt)
Disodium cyanodithioimidocarbonate
Formic acid
Gibberellic acid
Gibberellins A4A7
Liquid carbon dioxide
Methylene bis(thiocyanate)
Metribuzin
Nucleopolyhedrovirus for Douglas-fir tussock moth
Paraquat
Pinoxaden
Polymerized butenes
Potassium bicarbonate
Prohexadione calcium
Putrescent whole egg solids
Pyrimethanil
Sodium hypochlorite
Sodium monofluoroacetate
Spirodiclofen
Terbacil
Topramezone
Trichloro-s-triazinetrione
Triclopyr (present as butoxyethyl ester)
Verbenone
Warfarin (present in free form or as sodium salt)
<b>2022-2023</b>
2,2-(1-Methyltrimethylenedioxy)bis-(4-methyl-1,3,2-dioxaborinane)
2,2-Oxybis(4,4,6-trimethyl-1,3,2-dioxaborinane)
Acifluorfen (present as sodium salt)
<i>Agrobacterium radiobacter</i>
Carbendazim
Carfentrazone-ethyl
Di-n-propyl isocinchomeronate
Diphenylamine
Endothal
Endothal (present as N,N-dimethylalkylamine salt)
Etridiazole
Fluvalinate-tau
Methylated seed oil of soybean
Naled
Natamycin
<i>Neodiprion abietis</i> nucleopolyhedrovirus
Novaluron
Octenol
Oxadiazon
Oxyfluorfen

<b>Active Ingredient</b>
<i>Pantoea agglomerans</i> strain C9-1
<i>Pantoea agglomerans</i> strain E325 (NRRL B-21856)
Prothioconazole
Pyrasulfotole
Sodium chloride
Sodium cyanide
Spiromesifen
Strychnine
Sulfuryl fluoride
<b>2023-2024</b>
(S)-Methoprene
3-Methyl-2-cyclohexen-1-one
Acequinocyl
Ammonium bromide
Atrazine (plus related active triazines)
<i>Bacillus subtilis</i> (strain QST 713)
Bentazon (present as sodium salt)
Bispyribac-sodium (KIH-2023)
Cellulose (from powdered corn cobs)
Chlorpropham
Chlorsulfuron
Clomazone
Didecyldimethylammonium (present as carbonate and bicarbonate salts)
Diuron
S-ethyl dipropylthiocarbamate
Fenbutatin oxide
Ferric sodium ethylenediaminetetraacetic acid
German cockroach extract
Metalaxyl
Metalaxyl-M and S-isomer
Napropamide
Oxamyl
Prometryne plus related active triazines
Pyroxsulam
Rotenone
<i>Sclerotinia minor</i> IMI 3144141
Sethoxydim
<i>Streptomyces lydicus</i> strain WYEC108
Thiacloprid
Triallate
Zinc phosphide