Home and Garden Pesticides

Appendix I. Home and Garden Pest Management Guide for British Columbia



The following tables include pesticides (including biopesticides) that are registered for use in and around homes and gardens in Canada (Domestic pesticides) as of January, 2019. The tables are alphabetical by active ingredient, and include some common trade names, information on the plants or crops they may be used on, and information on the pests they control or suppress.

The registration status of pesticides in Canada is constantly changing, as new reduced risk products are introduced and older products are taken off the market. For example, many products that were available in the past, such as the insecticides carbaryl (Sevin) and diazinon can no longer be sold in Canada for domestic use.

Always check the current label and follow all label instructions and precautions when using pesticides. Page 8-4 explains how to find current pesticide labels on the Web.

Active Ingredient (AI)	Product (Trade) Name(s)	Plants/Crops (Check the current label)	PHI (Pre- harvest interval) ¹	Residential Applicator Certificate Needed ²	Comments
BACTERICIDE / F	UNGICIDES				
Bacillus subtilis	Bayer Advanced Natria; Green Earth Bio- Fungicide	roses, many ornamentals, brassica vegetables, pepper, eggplant, tomato, lettuce, celery, pea, bean, strawberry, cucurbits (see label)	0	No	Biological control for suppression of powdery and downy mildews, leaf spots and botrytis.
calcium polysulphide (Lime Sulphur)	Green Earth Lime Sulphur	Fruit trees, raspberry, blackberry, currant, gooseberry, roses, ornamental trees & shrubs	1 day	No	Controls mites, scales, peach leaf curl, black knot, apple scab, powdery mildew, anthracnose, rust, black spot. Do not use on apricot.
citric and lactic acid	Existens Fungicide & Bactericide; Bioprotec Fungicide and Bactericide	cucumbers (greenhouse), squash, pumpkin, tomatoes (field and greenhouse) strawberries, grapes, roses (see label)	0 days	No	For suppression of powdery mildew, downy mildew, rose black spot, bacterial canker (tomato) and angular leaf spot (strawberry).
copper, as copper octanoate	Cueva concentrate, Cueva RTU	Broad label including most ornamentals, turf, vegetables, tree fruit, berries and nuts	1 day	Yes	Dormant & growing season liquid copper. Controls bacterial & fungal diseases including leaf spots, rust, powdery & downy mildews, fire blight, black spot, early and late blight, peach leaf curl.

Active	Product (Trade)	Plants/Crops	PHI (Pre-	Residential	Comments
Ingredient (AI)	Name(s)	(Check the current label)	harvest interval) ¹	Applicator Certificate Needed ²	
BACTERICIDE / F	UNGICIDES				
copper, as tribasic copper sulphate 53%	Green Earth Bordo Copper Spray; King ECO-WAY PTV Potato, Tomato & Vegetable	Fruits, vegetables and ornamentals	1 day	No	Controls anthracnose, early and late blights, leaf spots, downy mildew, peach leaf curl, rose black spot.
etridiazole + indole butryric acid	Wilson's Roots Liquid Root Stimulator With Fungicide	softwood and hardwood cuttings	not used on food crops	Yes	For propagating new plants from stem and leaf cuttings. Controls Pythium rots.
garlic	Bioprotec Fruit Tree Fungicide Concentrate and RTU	apple, crabapple, pear, grape	0 days	No	For suppression of apple and pear scab and grapevine powdery mildew.
mineral oil	Purespray Green Concentrate	Fruit trees, rutabagas, blueberries, ornamental trees, shrubs, grapes	0 days (except 14 days - grape; 21 days – rutabaga)	No	Dormant oil and summer oil spray. Controls scales, pear psylla, mites, mealybugs, whitefly; suppresses powdery mildew, aphids.
mineral oil	Green Earth Horticultural Oil	Fruit trees, ornamental trees and shrubs	0 days	No	Dormant oil and summer oil spray. Controls Scale Insects, Mealybugs, Mites, pear psylla and other garden pests.
mineral oil	Superior Liquid Insecticide Oil Spray for dormant trees	Fruit trees, ornamental trees and shrubs	not used on food crops	No	Dormant oil. Kills over-wintering insects including scale, leafhopper, mites, pear psylla.
polyoxin D zinc salt	Polyoxin D zinc salt WDG	Turf and ornamentals	not used on food crops	Yes	Control or suppression of turf diseases and botrytis blight on ornamentals
Reynoutria sachalinensis extract	Regalia Liquid Fungicide Concentrate and Ready To Spray	Fruits, berries, grapes, vegetables, lawns & ornamentals	0 days	Yes	Suppression or partial suppression of many diseases including powdery mildew, botrytis, bacterial spot, downy mildew.
sulphur (RTU, 0.4% - 0.9%)	Safer's Defender Garden Fungicide RTU; Safer's Defender Garden Fungicide II; Safer's Defender Rose & Flower; Green Earth Garden Fungicide	vegetables, fruits, ornamentals and flowering plants	1 day (21 days wine grapes)	No	Controls rose black spot, powdery mildew and rust diseases.

Active Ingredient (AI)	Product (Trade) Name(s)	Plants/Crops (Check the current label)	PHI (Pre- harvest interval) ¹	Residential Applicator Certificate Needed ²	Comments
BACTERICIDE / F	UNGICIDES				
sulphur 92%	Safer's Sulphur Dust; Green Earth Garden Sulphur; King Ecoway Fruit Tree & Garden Fungicide	vegetables, fruits, ornamentals and flowering plants	1 day (21 days wine grapes)	No	Controls rose black spot, powdery mildew, rust, apple scab, brown rot, black knot and some mites.
sulphur + soap (potassium salts of fatty acids)	Safer's 3 in 1 Garden Spray	roses, chrysanthemums, dahlias, grapes, currants, strawberries, gooseberries, beans	1 day	No	Controls rose black spot, powdery mildew, rust, aphids, mealybugs, spider mites, whiteflies, sawfly, psyllids.

¹ PHI – Pre-harvest interval: The number of days you must wait before harvesting edible plants, vegetables or fruits after applying a pesticide.

² Residential Applicator Certificate –under the IPM Act and Regulations (Ministry of Environment) use of many pesticides on lawns and ornamentals on private land now requires either a certificate (for residents) or a license (for commercial applicators). Many pesticides that are of low toxicity are exempted. n/a = not applicable

Active Ingredient	Product Name	Plants/Crops (Check the current label)	PHI (Pre- harvest interval) ¹	Residential Applicator Certificate needed ²	Comments
INSECTICIDES					
abamectin + avermectin B1	Raid Max, Raid Double Control, Raid Discrete – ant baits and roach baits, various products	Not for use on plants	not used on food crops	No	See label. Ant and roach baits for use indoors. Do not remove bait from bait stations. Do not place on surfaces used for food preparation.
borax	Ant B Gon, Antout, Ant Killer, Ant Trap, Ant Bait, Ant Control System, Outdoor Ant Stakes, Ant Bait Gel, Ant Bait Stakes	Not for use on plants	not used on food crops	No	Liquid bait or bait stations. Toxic to pets and children. No direct contact with food or crops. Note, borax baits (dusts, granular and liquid) that are not in bait stations are being phased out.
Btk (Bacillus thuringiensis)	Safer's BTK Biological Insecticide, Bioprotec Eco, BTK-Bioinsecticide	Most vegetables, fruits and outdoor ornamentals; Greenhouse peppers, cucumbers, tomatoes, roses and chrysanthemum	0 days	No	Controls caterpillars only, including cabbage looper, leafrollers, diamond back moth, hornworms, tent caterpillars, spruce budworm, gypsy moth and other listed insects; non-toxic to bees and beneficial insects.
calcium Polysulphide (Lime Sulphur)	Green Earth Lime Sulphur	Fruit trees, raspberry, blackberry, currant, gooseberry, roses, ornamental trees & shrubs	1 day	No	Controls mites, scales, peach leaf curl, black knot, apple scab, powdery mildew, anthracnose, rust, black spot. Do not use on apricot.
carbaryl		vin) has been discontinued in C e. Supplies on hand may be u		•	Pest control products containing carbaryl are no
cyfluthrin	Raid Max, Raid Spider, Raid Ant and Roach	For use as spot treatment within homes		No – aerosol containers	Formulated with pyrethrins for control of crawling insects such as ants and spiders.
diatomaceous earth	See silicon dioxide				
imidacloprid	SBM Advanced Season Long Grub Control	Residential turfgrass, including lawns around shrubs and trees	Not used on food crops	Yes	Controls soil inhabiting larvae of European chafer beetle, Japanese beetle, and Black Turfgrass Ataenius beetle and for the suppression of European crane fly larvae (leatherjackets).

Active Ingredient	Product Name	Plants/Crops (Check the current label)	PHI (Pre- harvest interval) ¹	Residential Applicator Certificate needed ²	Comments
INSECTICIDES	5				
malathion	Malathion (various brands)	Vegetables, fruits, flowers and ornamentals	3-14 days (see label)	No – food crops; Yes - ornamentals	Organophosphate; strong odour, toxic to bees. Controls most insects. Do not use malathion products that are older than 1 year. Over time a more toxic chemical can form in malathion. To dispose of unwanted pesticides, bring them to a local Household Hazardous Waste collection depot. For locations see the Product Care ReGeneration website
mineral oil	Purespray Green Concentrate	Fruit trees, rutabagas, blueberries, ornamental trees, shrubs, grapes	0 days (except 14 days - grape; 21 days - rutabaga)	No	Dormant oil and summer oil spray. Controls scales, pear psylla, mites, mealybugs, whitefly; suppresses powdery mildew, aphids. Do not use dormant oil before or during freezing temperatures or rain.
mineral oil	Green Earth Horticultural Oil	Fruit trees, ornamental trees and shrubs	0 days	No	Dormant oil and summer oil spray. Controls scale Insects, mealybugs, mites, pear psylla and other garden pests. Do not use dormant oil before or during freezing temperatures or rain.
mineral oil	Pure Spray Green Concentrate	Fruit trees, ornamental trees and shrubs	n/a	No	Dormant oil. Kills over-wintering insects including scale, leafhopper, mites, pear psylla. Do not use dormant oil before or during freezing temperatures or rain.
permethrin	Bio-Environmental Permethrin; Wilson Ambush; Laters Origins; Bug X Tree & Garden, Protector House & Garden; C2 Insecticide; Wilson Fruit Guard, Sure Spray Back Insecticide; Bug Kill Flora; Docktor Doom Thrip Killer	ornamental trees and shrubs, fruit trees, grape, cabbage, cauliflower, broccoli, brussels sprouts, corn, pepper, tomato, potato	1 to 21 days (see label)	No – food crops; Yes- ornamentals	Synthetic pyrethroid, liquids and aerosols. Harmful to bees and beneficial insects; repeated use may cause a build-up of mites. Controls spruce budworm, sawflies, gypsy moth, tent caterpillar, fall webworm, aphids, bud moth, leafhopper leafminer, fruitworm, apple maggot, leafrollers, mullein bug, codling moth, pear psylla, cabbage worm, crucifer flea beetle, corn borer, corn earworm, colorado potato beetle, potato flea beetle.

Active Ingredient	Product Name	Plants/Crops (Check the current label)	PHI (Pre- harvest interval) ¹	Residential Applicator Certificate needed ²	Comments
INSECTICIDES					
permethrin	Crawling insect killer; Wasp and Hornet Killer; Flea and Tick Killer; (various brands)	Crack, crevice and spot sprays for indoor and outdoor use. Some uses on ornamental plants. See label.	Not used on food crops	No – aerosol containers	Synthetic pyrethroid; harmful to bees and beneficial insects; aerosols, foams, & liquid formulations. Also available in various mixtures. Controls spiders, sowbugs, earwigs, cockroaches, crickets, millipedes, silverfish, ants, fleas, carpet beetles, brown dog ticks.
D-phenothrin + prallethrin	ETOC Pressurized Spray 2594, Doktor Doom Sleep Tight, Raid Mosquito and Fly Killer 2	Not for use on plants	Not used on food crops	No	Pressurized sprays for indoor use. includes products for control of ants, bed bugs, crickets, spiders, ticks, fleas and carpet beetles, house flies and mosquitoes. See label for uses.
potassium salts of fatty acids (soap)	Insecticidal Soap (various brands)	houseplants, vegetables, fruits, shrubs, trees or greenhouse plantings	0 days	No	Low toxicity contact insecticide for aphids, spider mites, whitefly, scale, rose and pear slugs, mealybugs; low toxicity to bees and beneficial insects; non-persistent. Some formulations are in mixtures.
propoxur	Hornet and Wasp Killer, Crawling Insect Killer, Household Insect Spray, & others (various brands)	Not for use on plants	Not used on food crops	No	Carbamate insecticide for wasps and crawling insects around buildings; mainly for outdoor uses; some products may be used indoors in bait trays. Some formulations are in mixtures. Some products and uses have been discontinued, ask retailer for alternative products.
pyrethrins	Botanics, Bug-B-Gon, Trounce, Scotts Ecosense, NEU1161I, Doktor Doom Botanics, Green Earth Biomist, Pyrocide, Safers Vegetable garden (various brands)	Flowers, ornamental trees and shrubs, houseplants, vegetables, fruit trees, grapes. See label.	1 day	No	Natural insecticides obtained from pyrethrum flower. Controls sucking and chewing insects such as caterpillars, beetles, leafhoppers, thrips, stink bugs, whitefly and spider mites. Repeated use of pyrethrins will cause a build-up of mites. Also used in aerosols and flea and tick products, and for household insects. Some formulations acceptable in organic production.

Active Ingredient	Product Name	Plants/Crops (Check the current label)	PHI (Pre- harvest interval) ¹	Residential Applicator Certificate needed ²	Comments
INSECTICIDES					
silicon dioxide (diatomaceous earth)	Ant dust; Ant Blaster; Antout; Bugout, Insectigone; Diatomaceous Earth; Earthblends; Insect Controller; Insect Stop; Indoor/Outdoor Insect Dust	For indoor and outdoor use in the home and garden. See label.	not used on food crops	No	Natural insecticide; controls crawling insects such as ants, cockroaches, earwigs, fleas, silverfish, bedbugs, millipedes. May be used with bait/attractants as per label. Also found in mixtures with pyrethrins.
tetramethrin	House and garden bug sprays, wasp and hornet sprays (various brands)	Household insects, hornet and wasp sprays. Some uses on ornamentals and house plants. See label.	not used on food crops	No	Synthetic pyrethroid used in aerosol and RTU* formulations. Controls sucking and chewing insects on ornamentals and house plants, and crawling and flying indoor and outdoor insects such as hornets, wasps, fleas, ants, bedbugs, carpet beetles and cockroaches. After a reevaluation, the PMRA is proposing continued use of products containing tetramethrin.
verbenone	Verbenone Pouch Mountain Pine Beetle Repellent	Pine trees	not used on food crops	No	Mountain pine beetle repellent.

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^{*}RTU = ready to use

Active Ingredient(s) (AI)	Product Name	Where to use (check label)	Residential Applicator Certificate Needed ¹	Usage and Comments
HERBICIDES				
2,4-D	Weedex Dandelion Bar or Stick	Lawns	yes	Lawn herbicide for broadleaf weeds including dandelion, plantain.
2,4-D + dicamba + mecoprop	Killex; Weedex; Weedout, Clear Choice, Co-op Premium, Smartones	Lawns	yes	Lawn herbicide for broadleaf weeds including dandelion, plantain, chickweed, clover, bedstraw, black medick, English daisy, curled dock, heal-all, ground Ivy, knotweed, poison ivy, ragweed, shepherd's-purse.
acetic acid	Horticultural Vinegar, Eco- Clear, Path Clear, Wilson Lawn Weedout Ultra, Grotek Elimaweed, Total Wipeout	Gardens, sidewalks, patios, driveways	No	Non-selective control of broadleaf and grassy weeds in and around the garden, on patios, sidewalks, driveways, under fences, and around established trees and shrubs. Grotek Elimaweed can no longer be sold in Canada for use by home gardeners, but supplies on hand may be used until February 3, 2021.
citric + lactic acid	Bioprotec Lawn Herbicide	Lawns	No	For partial suppression of clover, bird's-foot trefoil, black medic and wood sorrel in established lawns.
corn gluten meal	Turfmaize, Nutrite Pre- Emergent, WOW!, Plant- Prod Ultimate, Vigoro	Lawns	No	Inhibits seed germination of large crabgrass, white clover and dandelion in established residential lawns. Some products labeled for inhibition of grass and broadleaf weed seed germination in flower, fruit and vegetable gardens, around established plants.
dicamba	See 2.4-D + dicamba + meco	prop		, , , , , , , , , , , , , , , , , , , ,
dichlobenil	Casoron	Established plantings of woody ornamentals and fruit trees/shrubs	Yes – ornamentals No – food crops	For control of annual grass and broadleaf weeds and some perennial weeds in established plantings of roses, rhododendrons, evergreens, tree fruits, bush fruits and woody ornamentals.
dichlobenil	RootX	Sanitary and storm sewers	No	For control of roots in residential sanitary and storm sewers.
glufosinate ammonium	Wipe-Out	Sidewalks, patios, driveways	Yes	Non-selective herbicide; no soil residue. Controls most annual weeds and top growth of perennial weeds. Used to control undesirable vegetation in areas such as patios and driveways.
glyphosate	Roundup, TotalEx, Glyfos, Byebye Weed and others	Sidewalks, patios, driveways, gardens	Yes – for weed control in landscaped areas No – for exempted* uses (see note to right)	Systemic, non-selective herbicide, controls broadleaf, grass and perennial weeds; no soil residue. Available in ready to use and concentrate form. *Residential Applicators Certificate is not needed for control of weeds on hard surfaces such as cracks in driveways, or for control of regulated or invasive weeds, or for weeds poisonous to touch (such as poison ivy, giant hogweed).

Active Ingredient(s) (AI)	Product Name	Where to use (check label)	Residential Applicator Certificate Needed ¹	Usage and Comments
HERBICIDES				
Iron (present as FeHEDTA)	Fiesta, Neu1173h, Weed B Gon, Scotts EZ Lawn Weed	Lawns	No	For control or suppression of broadleaf weeds on lawn turf, including dandelion, English daisy, clover, black medic, bull thistle, Canada thistle, chickweed, buttercup, plantain moss, and algae.
mecoprop	Chickweed, Clover & Thistle Killer	Lawns	Yes	Lawn herbicide for broadleaf weeds including white clover, chickweed, buttercup, cornspurry, plantain, Canada thistle and stitchwort. Also sold in mixtures with 2,4-D and dicamba (see above).
potassium salts of fatty acids (soap)	De-Moss, Moss Killer, Moss Control	Lawns, ornamental gardens, hard surfaces	No	For control of moss, algae, lichens, and liverworts on lawns, ornamental gardens, bark mulch, and hard surfaces such as roofs, sidewalks.
sodium chloride	A.D.I.O.S. Bio-herbicide, Weedout	Sidewalks, patios, driveways	No	Post-emergent herbicide for control of broadleaf weeds in residential land, along driveways, walkways and in vacant lots, including dandelion, ragweed, ground ivy, white clover, and poison ivy.

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Active Ingredient(s) (AI)	Product Name	Where to use (Check the current label)	Residential Applicator Certificate Needed ¹	Usage and Comments
MOLLUSCICIDE	S (slug and snail control)			
ferric phosphate	Sluggo, Slug B Gone, Escar- Go, Slug and Snail Bait	Vegetable, fruit and ornamental gardens	No	Slug and snail bait. Not harmful to pets, birds or wildlife.
metaldehyde	Slugout, Slug and Snail Pellets, Xiren, Escar-Go 3 or 5	Vegetable, fruit and ornamental gardens	No – food crops; Yes- ornamentals	Slug and snail bait. Liquid and pellet formulations. Bait must be kept away from pets and children. Do not use on edible plants. Do not use on turf.
RODENTICIDES				
bromethalin	Tomcat mouse killer, Tomcat rat killer	Some products for indoor/outdoor use; some products for indoor use only (see label)	No	Rat and mouse baits. Bait must be placed in tamper resistant bait. Place away from food and avoid contamination of food surfaces. Keep away from children, pets and livestock.
chlorophacinone	Ratol, Rozol, Ground Force Rat and Mouse Killer, Wilson Mouse Treat, Riddex, and others	Some products for indoor/outdoor use; some products for indoor use only (see label)	No	Rat and mouse baits. Bait must be placed in tamper resistant bait. Place away from food and avoid contamination of food surfaces. Keep away from children, pets and livestock.
diphacinone	T1 Rat I, Farm and Ranch, Tomcat, Wilson Riddex, Ramik, Ditrac (various brands)	Some products for indoor/outdoor use; some products for indoor use only (see label)	No	Rat and mouse baits. Bait must be placed in tamper-resistant bait stations. Place away from food and avoid contamination of food surfaces. Keep away from children, pets and livestock.
warfarin	Warfarin Bait, Warfarin Rat and Mouse Killer (various brands)	Some products for indoor/outdoor use; some products for indoor use only (see label)	No	Rat and mouse baits. Bait must be placed in tamper-resistant bait stations. Place away from food and avoid contamination of food surfaces. Keep away from children, pets and livestock.
sulphur	The Giant Destroyer	Outdoor use, inside rodent burrows	No	Produces toxic sulphur gases inside holes, tunnels, and burrows for control rats, moles, pocket gophers and ground squirrels.

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Active Ingredient(s) (AI)	Product Name	Where to use (Check the current label)	Residential Applicator Certificate Needed ¹	Usage and Comments
ANIMAL REPEL	LENTS			
denatonium benzoate	Rodent repellent, Animal Repellent, Animal Barrier, Animal Defend, (many brands)	Tree bark, ornamental plants, fences, siding, garbage cans	No	Repellents for wild and domestic animals including dogs, cats, rabbits, raccoons, beavers, mice, rats, deer, squirrels, voles, porcupines and some types of birds. Apply to dry surfaces. Never use on food, edible plants or directly on the fruit or nuts of trees.
putrescent whole egg solids	Deer-Away, Horti-Kure squirrel repellent	Conifer seedlings, ornamentals, fruit trees, tulip bulbs	No	Repellents for deer and elk; used to protect conifer seedlings and ornamentals; squirrel repellent used to protect tulip bulbs. On fruit trees use when dormant or after harvest. Some products not for use on food crops.
oil of black pepper + piperine + capsaicin	Scentagone, Chemfree Critter Ridder	soil, mulch, lawns, ornamental plants, garbage containers	No	Repellent for dogs, cats, raccoons, skunks, groundhogs and squirrels. Do not use on food or edible plants, or where children will play.
capsaicin + wintergreen oil + castor oil + fish oil + garlic oil	Bobbex Deer & Rabbit	ornamental plants	No	To prevent or feeding damage to outdoor ornamental plants by deer and rabbits and hares. Do not apply to food plants.
capsaicin	Dog Repellent, Dog Deterrent, Dog Beware, Dog & Coyote Attack (many brands)	Self defence against aggressive dogs	No	Pepper sprays, for use against aggressive dogs only. See label.
dried blood	Plantskydd Deer Repellent	conifer seedlings	No	For use on cedar, fir, pine, and spruce seedlings to prevent feeding damage by deer and elk.
polymerized butenes	Shoo Bird Repellent, Tanglefoot Bird Repellent, Super Hunter	window sills, eaves, ledges and roofs	No	Repellent for birds, including pigeons, starlings and sparrows A soft, sticky material applied to window sills, eaves, ledges and roofs, to prevent birds from roosting.
thiram	Skoot repellent	dormant ornamentals and fruit trees	Yes	Repellent for rabbits, mice and deer; used to protect ornamental shrubs, trees and perennials and young fruit trees. Do not use on plants or plant parts that will be eaten.

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