

Pest Control Products Registered for Use on Hops in Ontario – 2020

The following tables list pest control products registered on hops in Ontario as of April 15, 2020. This list is intended as a guide and does not replace current product labels. Many hops pesticides are under re-evaluation and their registration status and labelled uses may change within the lifetime of this document. **Always read the label thoroughly before applying a pest control product and follow all label instructions.** It is the grower and applicator’s responsibility to be aware of all federal and provincial regulations governing the use of pesticides in Ontario. More information on the use of pesticides in Ontario can be found on the Ontario Ministry of Agriculture, Food and Rural Affairs website. [Visit the OMAFRA website.](http://www.ontario.ca/usingpesticides) (Full URL= www.ontario.ca/usingpesticides)

Table 1—Insect Control for Hops in Ontario

Legend

Group: Chemical group number for a pest control product established by the Insecticide Resistance Action Committee (insecticides), Fungicide Resistance Action Committee (fungicides) or Weed Science Society of America (herbicides) based on mode of action for resistance management planning.

REI: Restricted Entry Interval. Do not enter treated fields unprotected until after the REI has passed. For some products REI varies with activity. If the REI is not specified, assume a 12-hr REI.

NS: Not specified on label.

PHI: Pre-Harvest Interval. The required time period between the last spray and the first harvest.

HOP APHID

| Group | Active Ingredient | Trade Name | Rate | REI | PHI | Notes |
|-------|-------------------|-------------|-----------|--------|---------|--|
| 4 | imidacloprid | Admire 240F | 230 mL/ha | 24 hrs | 28 days | Allow at least 21 days between applications. Maximum 2 applications per season. |

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| 4D | flupyradifurone | Sivanto Prime | 500-750 mL/ha | 12 hrs | 21 days | Apply as a directed foliar spray ensuring thorough coverage. Use a minimum application volume of 100 L/ha. Maximum 750 mL/ha. |
| 23 | spirotetramat | Movento 240 SC | 365-435 mL/ha | 12 hrs | 7 days | Apply early in infestation as populations begin to develop. Use higher rates for moderate to heavy pressure. Use a minimum application volume of 500 L water/ha. Apply with an adjuvant as specified on product label. Allow at least 14 days between applications. Maximum 920 mL/ha Movento permitted per season. |
| 29 | flonicamid | Beleaf 50 SG | 0.12-0.16 kg/ha | 31 days (stripping and training) 12 hrs (all other activities) | 31 days | Apply as populations begin to increase, before damaging levels become established. Apply in enough water to ensure good coverage (minimum 94 L/ha). Increase spray volume when foliage is dense. Allow at least 7 days between applications. Maximum 3 applications per year (max 0.48 kg/ha/season). |
| NC | Mineral oil | Purespray Green Spray Oil 13 E | 10 L/ha | 12 hrs | N/A- stop at burr development | Feeding deterrent only. Apply in at least 1000 L water/ha (1% solution) to avoid phytotoxicity. Do not tank mix with copper. Discontinue use at burr development. |

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| | | | | | | Tolerance has not been determined for all varieties. Do not apply to crops under moisture stress or just prior to or during freezing weather. Re apply at 10-14 day intervals. Maximum 8 applications per year. |
| | | SuffOil X | Mix 12.9 L product in 1000 L water | 12 hrs | 12 hrs | Feeding deterrent only. Use enough spray solution to completely penetrate the canopy without runoff- use a minimum of 50 L spray solution/ha. Tolerance has not been determined for all varieties. Do not apply to crops under moisture stress, when temperatures are below 4°C or above 33°C, or when there is a danger of freezing. Re apply at 10-14 day intervals. Maximum 8 applications per year. |
| | potassium salts of fatty acids | Opal Insecticidal Soap Kopa Insecticidal Sap | Mix 8 L product with 400 L water and apply at 700-1900 L/ha | 12 hrs | 12 hrs | Thoroughly spray to wetting. Spray must contact pests to be effective. Repeat every 1-2 weeks as needed. Apply a maximum of 3 consecutive applications to avoid plant injury. Additional applications may be possible- see product label. |

LEAFHOPPER

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| 4D | flupyradifurone | Sivanto Prime | 500-750 mL/ha | 12 hrs | 21 days | See comments under hop aphid. |
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TWO SPOTTED SPIDER MITE

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| 6 | abamectin | Agri-Mek SC | 125-250 mL/ha | 12 hrs | 28 days | For applications at ½ trellis growth (1.8-2.5 m), apply 125-250 ml product in at least 400 L water/ha. For applications beyond ½ trellis growth, do not use less than 225 mL product/ha in at least 950 L water/ha. Allow at least 21 days between applications. Apply with a non-ionic surfactant as specified on label. Do not graze treated crop. Maximum 2 applications per year (max 500 mL/ha/yr). |
| 20B | Acequinocyl | Kanemite 15C | 2.07 L/ha | 12 hrs | 7 days | Apply as a full coverage spray of the foliage to drip. Alternate applications of Kanemite with products from other insecticide families. Maximum 2 applications per season (max 4.1 L product/ha/season). |
| 20D | bifenazate | Acramite 50WS | 851 g/ha | 5 days (stripping, training) 12 hrs (all other activities) | 14 days | Apply in at least 1000 L/ha. This product is primarily active on motile stages of mites. This product is not systematic- thorough coverage of upper and lower leaf surface is necessary for effective |

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| | | | | | | control. Maximum 1 application per year. |
| 23 | spirodiclofen | Envidor 240SC | 0.75 L/ha | 2 days (stripping, training) 12 hrs (all other activities) | 21 days | Thorough coverage required for effective control. Apply in 500-1000 L water/ha. Maximum 1 application per year (max 0.75 L/ha/season). |
| NC | Mineral oil | Purespray Greenspray Oil 13 E | 10 L/ha | 12 hrs | 12 hrs | Suppression only. See comments under hop ahid. |
| | | SuffOil X | Mix 12.9 L product in 1000 L water | 12 hrs | 12 hrs | Suppression only. See comments under hop aphid. |
| | potassium salts of fatty acids | Opal Insecticidal Soap Kopa Insecticidal Soap | Mix 8 L product with 400 L water and apply at 700-1900 L/ha. | 12 hrs | 0 days | See comments under hop aphid. |

CATERPILLARS

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|----|---|--|---|-------------------|--------|---|
| 11 | <i>Bacillus thuringiensis</i> var <i>kurstaki</i> | Dipel 2 X DF Bioprotec Plus | Hop looper 275-550 g/ha Corn borer 560-1120 g/ha Hop looper 0.9-1.8 L/ha | 4 hrs or when dry | 0 days | Apply at first sign of infestation when larvae are small. Repeat if necessary at 5-10 day (Bioprotec) or 3-14 day (Dipel) intervals. Apply Bioprotec in a minimum of 300 L water/ha. For European corn borer, no more than 3 applications of Bioprotec per generation (max 6 Bioprotec applications/year). |
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| | | | Corn borer 1.5-2.5 L/ha | | | |
| | <i>Bacillus thuringiensis</i> var <i>aizawai</i> | XenTari WG | Hop looper 500-100 g/ha | 4 hrs or when dry | 0 days | Apply at first sign of infestation when larvae are small. Ideally, apply in the evening or on a cloudy day. Use sufficient spray volume for thorough coverage but not run off. Repeat if needed at 3-14 day intervals. |
| 28 | chlorantraniliprole | Coragen | Cutworms 250-375 ml/ha Cabbage looper 250 ml/ha | 12 hrs | 0 days | Allow at least 7 days between applications. Do not make more than 4 applications per season (maximum 1.25 L/ha/season). |

SLUGS

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|----|------------------|---------------------|-------------|--------|----|---|
| NC | ferric phosphate | Sluggo Professional | 12-50 kg/ha | 12 hrs | NS | Apply evenly in a 15 cm band around base of stem with a broadcast or granular spreader. Treat perimeter of crop to intercept slugs travelling into field from daytime refuges. Reapply as bait is consumed or every two weeks if damage continues. Soil should be moist but with no standing water. |
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Table 2—Disease Control for Hops in Ontario

Group: Chemical group number for a pest control product established by the Insecticide Resistance Action Committee (insecticides), Fungicide Resistance Action Committee (fungicides) or Weed Science Society of America (herbicides) based on mode of action for resistance management planning.

REI: Restricted Entry Interval. Do not enter treated fields unprotected until after the REI has passed. For some products REI varies with activity. If the REI is not specified, assume a 12-hr REI.

NS: Not specified on label.

PHI: Pre-Harvest Interval. The required time period between the last spray and the first harvest.

DOWNY MILDEW

| Group | Active Ingredient | Trade Name | Rate | REI | PHI | Notes |
|-------|--------------------------|---------------------|---------------|--------|---------|--|
| 4 | metalaxyl-m and s-isomer | Ridomil Gold 480 SL | 570 mL/ha | 12 hrs | 90 days | Apply in early April as a soil drench at the root site. Apply in 200 L water/ha. No more than 1 application per season. |
| 21 | cyazofamid | Torrent 400 SC | 0.15-0.2 L/ha | 12 hrs | 3 days | Apply preventatively when conditions are conducive to disease development. Allow at least 7-14 days between applications. Alternate foliar sprays of Torrent with a different mode of action. Increase rate and shortening intervals with increasing disease pressure. Apply with a non-ionic or organosilicone surfactant as specified on product label. Apply in at least 935 L water/ha. No more than 6 applications |

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| | | | | | | (1.2 L/ha) per crop growing season. |
| 40 | dimethomorph | Forum | 450 mL/ha | 18 days (hand harvest, stripping, training) 12 hrs (all other activities) | 7 days | Suppression only. Apply preventatively when conditions are favourable to disease development. Forum must be tank mixed with a fungicide from another group active against downy mildew. Allow at least 10 days between applications. Do not use less than 200 L water/ha. No more than 3 applications per season. |
| 40 | mandipropamid | Revus | 600 mL/ha | 12 hrs | 7 days | Apply preventatively when conditions are conducive to disease development. Use minAllow at least 7-10 days between applications. Use with a non-ionic adjuvant is suggested, where permitted—see label for details. Do not make more than 2 consecutive applications before rotating to a fungicide that is not in Group 40. No more than 50% of all applications for downy mildew/season should be Revus or a Group 40 fungicide. No more than 3 applications (1.8 L product) per year. |
| 40/45 | ametoctradin + dimethomorph | Zampro | 0.8-1.0 L/ha | 18 days (hand harvest, training, stripping) | 7 days | Begin applications prior to disease development. Allow at least 10 days between applications. Use with an adjuvant is |

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| | | | | 12 hrs (all other activities) | | suggested—see label for details. Apply in a minimum of 200 L water/ha. Do not make more than 2 applications before rotating to another fungicide that is not Group 40 or 45. No more than 3 applications per year. |
| 43 | fluopicolide | Presidio Fungicide | 292 mL/ha | 12 hrs | 24 days | Begin applications prior to disease development. Allow 10-14 days between applications. Presidio must be tank mixed with a registered hop downy mildew fungicide that is not in Group 43. Do not make more than 2 sequential applications before alternating with a fungicide that is not Group 43. No more than 3 applications per year (max 880 mL/ha/year). |
| 44 | <i>Bacillus subtilis</i> | Serenade Opti | 3.3 kg/ha | 12 hrs | 0 days | Partial suppression only. Begin applications when conditions are conducive to disease development. Repeat as needed on a 7 to 10 day interval. |
| M | copper sulfate | Copper 53W | 4-5 kg/1000 L | 48 hrs | 2 days | Apply when conditions are favorable to disease development. Allow at least 10 days between applications. Do not tank mix with spray oils—refer to oil labels for more |

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| | | | | | | precautions. No more than 4 applications per year. |
| | copper hydroxide | Parasol WG | 1.2 kg/ha | 48 hrs | 14 days | May be applied as a crown treatment after pruning but before training. After training, apply at a minimum of 10-day intervals if needed. Apply in 400 to 1000 L water/ha. No more than 5 applications per year. |
| P5 | extract of <i>Reynoutria sachalinensis</i> | Regalia Maxx | 0.25-0.50% v/v (1.875-3.75 L product/750 L water) | When dry | 0 days | Partial suppression only. Apply preventatively when environmental conditions are conducive for disease development. Allow at least 7 days between applications. Adjust spray equipment to achieve thorough coverage as the crop grows. Apply a maximum of 750 L spray solution/ha. No more than 8 applications per season. |

POWDERY MILDEW

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|------|---------------------------|-------------|-----------------------------|--|---------|--|
| 7/11 | boscalid + pyraclostrobin | Pristine WG | 0.015 kg/100 L dilute spray | 8 days (hand set irrigation) 46 days (harvest) 12 hrs (all other activities) | 46 days | Also provides suppression of downy mildew. Begin applications prior to disease development. Allow at least 10-14 days between applications. Use 234 to 468 L dilute spray/ha (0.25-0.49 |
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| | | | | | | kg/ha) prior to trellising and 935-1524 L dilute spray/ha (0.98-1.6 kg/ha) after. Do not apply more than 1524 L dilute spray/ha. No more than 3 applications per season. |
| | Fluopyram + trifloxystrobin | Luna Sensation | 300-600 mL/ha | 12 hrs | 14 days | Begin applications when conditions are favourable for disease and continue as needed on a 10-14 day interval. Use low rate for small plants. Use sufficient water volume to apply just to the point of runoff. Do not make more than 2 applications before rotating to a fungicide that is not in group 7 or 11. Do not apply more than 1980 mL product/ha per season. |
| 13 | quinoxyfen | Quintec | 300-500 mL/ha | 12 hrs | 21 days | Suppression only. Apply preventively when conditions are favorable to disease development. Allow at least 14 days between applications. NOTE: Due to a re-evaluation decision by the Pest Management Regulatory Agency, use of Quintec is being phased in Canada. LAST |

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| | | | | | | DATE OF USE OF QUINTEC ON HOPS IS JUNE 2021. No more than 2 applications per year. |
| 46 | tea tree oil | Timorex Gold | 1.0-1.5 L/ha | 4 hrs | 2 days | Suppression only. Apply preventatively or early in disease cycle. Apply in 400-800 L water/ha. Do not spray during warm hours of day or in hot season when temperatures exceed 35°C. Do not apply through irrigation system. |
| 50 | metrafenone | Vivando SC | 0.750-1.12 L/ha | 12 hrs | 14 days | Suppression only. Begin applications prior to onset of disease. Allow at least 14 days between applications. When plant growth is rapid, ensure new growth is adequately protected. A non-ionic surfactant may improve performance. No more than 2 applications or 2.24 L product/ha per season. |
| NC | canola oil | Vegol Crop Oil | Mix 1 L concentrate/50 L water (2% solution) | 12 hrs | NA- stop at burr development | Suppression only. Apply at a spray volume of 700-1900 L/ha. Begin applications when disease first appears and continue on a 7-14 day interval as needed. To protect new growth, spray at |

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| | | | | | | early leaf stages. Discontinue use at burr development. Do not apply when temperatures are above 32°C, just prior to/during freezing or when plants are wet due to melting frost or heavy dews. Do not use in combination with or closely following copper, as phytotoxicity may result. No more than 4 summer applications permitted per year. |
| | mineral oil | Purespray Green Spray Oil 13 E | 10 L/ha | 12 hrs | N/A—stop at burr development | Suppression only. Apply in at least 1000 L water/ha (1% solution) to avoid phytotoxicity. Do not tank mix with copper. Discontinue use at burr development. Tolerance has not been determined for all varieties. Do not apply to crops under moisture stress or just prior to or during freezing weather. Re-apply at 10-14 day intervals. Maximum 8 applications per year. |
| | | SuffOil X | Mix 12.9 L product in 1000 L water and apply at 50 L spray solution/ha | 12 hrs | 12 hrs | Suppression only. Use enough spray solution to completely penetrate the canopy without runoff- use a minimum of 50 L |

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| | | | | | | <p>spray solution/ha. Tolerance has not been determined for all varieties. Do not apply to crops under moisture stress, when temperatures are below 4°C or above 33°C, or when there is a danger of freezing. Re-apply at 10-14 day intervals.</p> <p>Maximum 8 applications per year.</p> |
| | potassium bicarbonate | MilStop | 2.8-5.6 kg/ha | 4 hrs | 0 days | <p>Suppression only. Begin application at the first sign of disease. Repeat at 7-14 day intervals until conditions are no longer favorable for disease development. Use the high rate for conditions of high to moderate disease pressure and shorten application interval during periods of rainy weather or high relative humidity. Apply in 500-1000 L water/ha. Do not mix with other pesticides or fertilizers that are not compatible with mild alkaline solutions. No more than 10 applications per season.</p> |
| | | Sirroco | | | | |

BOTRYTIS GREY MOLD

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|----|--------------|--------------|--------------|-------|--------|---|
| 46 | tea tree oil | Timorex Gold | 1.5-2.0 L/ha | 4 hrs | 2 days | Apply preventatively or early in disease cycle. Apply in 400-1200 L water/ha. Do not spray during warm hours of day or in hot season when temperatures exceed 35°C. Do not apply through irrigation system. |
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CROWN GALL

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| NC | <i>Agrobacterium radiobacter</i> | Dyggall | Nursery product only—see label for details | 12 hrs | NS | For use only on nursery plants, by trained nursery personnel. |
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FUSARIUM ROOT ROTS

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| NC | <i>Trichoderma harzianum</i> | RootShield WP | 3-4 kg/ha | 12 hrs | 0 days | Suppression only of root rots caused by <i>Fusarium</i>, as well as <i>Pythium</i> and <i>Rhizoctonia</i>. Suspend in at least 1000 L water and apply to soil surface immediately around plants. Use higher rates when conditions favour disease. Irrigation or rainfall of at least 5 mm should occur within 24 hours of application to move active ingredient to the root zone. |
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Table 3—Weed Control for Hops in Ontario

Legend

Group: Chemical group number for a pest control product established by the Insecticide Resistance Action Committee (insecticides), Fungicide Resistance Action Committee (fungicides) or Weed Science Society of America (herbicides) based on mode of action for resistance management planning.

REI: Restricted Entry Interval. Do not enter treated fields unprotected until after the REI has passed. For some products REI varies with activity. If the REI is not specified, assume a 12-hr REI.

NS: Not specified on label.

PHI: Pre-Harvest Interval. The required time period between the last spray and the first harvest.

PRE-EMERGENT HERBICIDES (control weeds prior to germination)

| Group | Active Ingredient | Trade Name | Rate | REI | PHI | Notes |
|-------|-------------------|-------------|--|--------|---------|--|
| 14 | flumioxazin | Chateau WDG | 280 g/ha (coarse soil, <5% organic matter) 420 g/ha (medium soil, <5% organic matter) | 12 hrs | 30 days | For pre-emergence weed control, apply using ground equipment as a 30-45 cm (1-1. ft) band to each side of the row to dormant hops only in the fall. Moisture is necessary for activation—weeds that germinate after application but before activating rainfall or irrigation may not be controlled. For sucker control, apply as aa directed application to the lower 0.6 m (2 ft) of hops, once plants have reached a |

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| | | | | | | <p>minimum of 1.8 m (6 ft) in height.</p> <p>Crop injury may occur when applied to poorly drained soils or under cool wet conditions—see label for details. Do not allow spray to contact green stem, foliage, flower or cones (unless used for sucker control). Do not use with an adjuvant. Do not apply to fine textured soils. See label for further details for avoiding crop injury. Do not apply more than 420 g/ha Chateau per season.</p> |
| 29 | indaziflam | Alion | 375 mL/ha | 12 hrs | 120 days | <p>For residual control of susceptible grass and broadleaf weeds when applied preemergence to the soil. See label for weed species controlled. Apply as a directed spray to the soil prior to shoot emergence.</p> <p>Dormant application only. Do not use on soils with 20% or more gravel content or less than 1% organic matter or crop injury may result. Note some sandy soils have <1% organic matter. Use only on hops</p> |

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| | | | | | | established for at least one year with normal growth and good vigour. Refer to product label for other precautions to avoid crop injury. No more than one application per season. |
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POSTEMERGENT HERBICIDES (apply to actively growing weeds)

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|---|-----------|---------------|----------------|--------|---------|--|
| 1 | clethodim | Select | 0.19-0.38 L/ha | 12 hrs | 21 days | For post emergence control of grassy weeds—see product label for specific weeds and rates. Apply with an adjuvant as specified on product label. Apply in a minimum of 110 L water/ha using ground equipment. Apply when annual grasses and cereals are in the 2 to 6-leaf stage. Control is most effective when applied while grasses are small and actively growing and will be less effective when plants are stressed due to inadequate or excess moisture, low temperature or very low relative humidity. No more than 1 application per season. |
| | | Centurion | | | | |
| | | Shadow RTM | | | | |

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|----|---------------------|-------------|--|--------|----------|---|
| | sethoxydim | Poast Ultra | 1.1 L/ha | 12 hrs | 180 days | For post emergence control of annual grasses and quackgrass. Merge Adjuvant must be applied to all applications of Poast Ultra. For more details on application, refer to product label or OMAFRA Publication 75, <i>Guide to Weed Control</i> . |
| 14 | carfentrazone-ethyl | Aim EC | 150 mL/ha (sucker management) 36.5-117 mL/ha (post-emergent weed control) | 12 hrs | 7 days | For management of sucker growth, apply as a directed spray to basal portion (approximately lower 45 cm) of plant and to sucker mat extending away from plant to approximately 45-60 cm into row. Apply in at least 200 L/ha spray solution using boom type ground application equipment. For post emergent control of broadleaf weeds within and between rows, apply with shielded sprayer and refer to product label for rates and weeds controlled. Apply with an adjuvant as specified on product label. Do not apply until trained bines |

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| | | | | | | <p>have sufficient barking to avoid stem damage and are high enough that there is no contact with apical bud. Do not allow upward drift of spray solution or contact with new growth. Do not apply AIM using airblast or air assisted sprayers or through an irrigation system. No more than 2 applications/year, at least 14 days apart, for sucker management and no more than 1 application/year for weed control.</p> |
| NC | ammonium salt of fatty acid | Axxe Broad Spectrum Herbicide | 45 L product/325 L water/ha—106 L product/765 L water/ha (0.5% a.i solution) | When dry | NS | <p>For post emergent burndown and suppression of grassy and broadleaf weeds. Non selective- do not allow spray to contact desirable plants. Apply at a 5% active ingredient concentration to the point of runoff, adjusting water volume to weed height—see labels for details. Avoid moisture through irrigation or rainfall within 3 hours of application.</p> |

Table 4—Potential Organic Products for Hops in Ontario

This table is intended as a guide for products that **may** be acceptable for organic production. However, they may not be accepted by all certification bodies. Always check with your organic certification body before applying any product. For rate and other application instructions, refer to the entry for each product in Tables 1 to 3.

INSECTICIDES

| Product | Active Ingredient | Labelled Pests |
|-------------------------------|--|---------------------------------|
| Bioprotec Plus | <i>Bacillus thuringiensis kurstaki</i> | hop looper, European corn borer |
| Dipel 2x DF | <i>Bacillus thuringiensis kurstaki</i> | hop looper, European corn borer |
| Kopa Insecticidal Soap | potassium salts of fatty acids | aphids, spider mites |
| Opal Insecticidal Soap | potassium salts of fatty acids | aphids, spider mites |
| Purespray Green Spray Oil 13E | mineral oil | aphids, spider mites |
| Sluggo Professional | ferric phosphate | slugs |
| SuffOil-X | mineral oil | aphids, spider mites |
| XenTari WG | <i>Bacillus thuringiensis aizawai</i> | hop looper |

FUNGICIDES

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|-------------------------------|---|-----------------|
| Copper 53 W | copper sulphate | downy mildew |
| MilStop | potassium bicarbonate | powdery mildew |
| Parasol WG | copper hydroxide | downy mildew |
| Purespray Green Spray Oil 13E | mineral oil | powdery mildew |
| Serenade Opti | <i>Bacillus subtilis</i> | downy mildew |
| Sirocco | potassium bicarbonate | powdery mildew |
| SuffOil- X | mineral oil | powdery mildew |
| Timorex Gold | tea tree oil | powdery mildew |
| Regalia Maxx | <i>Reynoutria sachalinensis</i> extract | downy mildew |
| RootShield WP | <i>Trichoderma harzianum</i> | fusarium canker |
| Vegol Crop Oil | canola oil | powdery mildew |

HERBICIDES

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| None currently registered on hops |
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Appendix A—Registrants for Hops Pesticides

This information is provided as a guideline only. Consult each product label before use for the most up-to-date information. Pesticide labels are also available at the Pest Management Regulatory Agency (PMRA) website. [Visit the Pest Management Regulatory Agency Website and Click On "Search Pesticide Labels."](http://www.pmr-arla.gc.ca) (Full URL= www.pmr-arla.gc.ca)

| PCP No. ¹ | Trade Name | Active Ingredient | Guaranteed Active | Registrant or Canadian Agent |
|----------------------|-------------------------------|--|--|------------------------------|
| 27925 | Acramite 50 WS | bifenazate | 50% | UPL Open Ag |
| 24094 | Admire 240 | imidacloprid | 240 g/L | Bayer CropScience Inc. |
| 31607 | Agri-mek SC | abamectin | 84 g/L | Syngenta Canada Inc. |
| 28573 | Aim EC | carfentrazone-ethyl | 240 g/L | FMC Corporation |
| 30451 | Alion | Indaziflam | 200 g/L | Bayer CropScience Inc. |
| 32719 | Axxe Broad Spectrum Herbicide | ammonium salt of fatty acid | 36.0% | BioSafe Systems L.L.C. |
| 29796 | Beleaf 50SG | Flonicamid | 50% | ISK Biosciences Corporation |
| 32425 | Bioprotec Plus | <i>Bacillus thuringiensis var kurstaki</i> | 17,500 Cabbage Looper Units/mg | AEF Global Inc. |
| 29231 | Chateau WDG | flumioxazin | 51.1% | Valent Canada Inc. |
| 9934 | Copper 53W | copper sulphate | 53.4% | UAP Canada |
| 28982 | Coragen | chlorantraniliprole | 200 g/L | FMC Corporation |
| 27598 | Centurion | clethodim | 240 g/L | BASF Canada Inc. |
| 26508 | DiPel 2XDF | <i>Bacillus thuringiensis var kurstaki</i> | 57% | Valent Canada Inc. |
| 21106 | Dygall | <i>Agrobacterium radiobacter</i> | 5x10 ⁹ colony forming units | Mori Nurseries Ltd. |
| 28051 | Envidor | spirodiclofen | 240 g/L | Bayer CropScience Inc. |
| 32026 | Forum Fungicide | dimethomorph | 500 g/L | Bayer CropScience Inc. |
| 28641 | Kanemite 15 SC | Acequinocyl | 15.8% | UPL Open Ag |
| 31433 | Kopa Insecticidal Soap | potassium salts of fatty acids | 47% | Neudorff North America |
| 32107 | Luna Sensation | fluopyram + trifloxystrobin | 250 g/L 250 g/L | Bayer CropScience Inc. |
| 28095 | MilStop Foliar | potassium bicarbonate | 85% | BioWorks Inc. |
| 28953 | Movento 240SC | spirotetramat | 240 g/L | Bayer CropScience Inc. |
| 28146 | Opal Insecticidal Soap | potassium salts of fatty acids | 47% | Omex Agriculture Inc. |
| 29063 | Parasol WG | copper hydroxide | 50.0% | Nufarm Agriculture Inc. |

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|-------|----------------------------------|---|--------------------------------|-----------------------------------|
| 24835 | Poast Ultra | sethoxydim | 450 g/L | BASF Canada Inc. |
| 30051 | Presidio Fungicide | fluopicolide | 39.5% | Valent Canada Inc. |
| 27985 | Pristine WG | boscalid + pyraclostrobin | 25.2% 12.8% | BASF Canada Inc. |
| 27666 | Purespray Green Spray Oil 13E | mineral oil | 99% | Intelligro |
| 29755 | Quintec | quinoxifen | 250 g/L | Corteva Agriscience |
| 30199 | Regalia Maxx | <i>Reynoutria sachalinensis</i> extract | 20% | Marrone Bio Innovations Inc. |
| 29074 | Revus | mandipropamid | 23.3% | Syngenta Canada Inc. |
| 28474 | Ridomil Gold 480SL | metalaxyl-m and s-isomer | 480 g/L | Syngenta Canada Inc. |
| 29890 | RootShield WP | <i>Trichoderma harzianum</i> | 1x10 ⁷ CFU/g | BioWorks Inc. |
| 22625 | Select | clethodim | 240 g/L | UPL Open Ag |
| 31666 | Serenade Opti | <i>Bacillus subtilis</i> | 1.21x10 ¹⁰ CFU/g | Bayer CropScience Inc. |
| 29277 | Shadow RTM | clethodim | 240 g/L | Loveland Products Canada Inc. |
| 31091 | Sirocco | potassium bicarbonate | 85% | AEF Global |
| 31452 | Sivanto Prime | flupyradifurone | 200 g/L | Bayer CropScience Inc. |
| 30025 | Sluggo Professional | ferric phosphate | 0.28% | Belchim Crop Protection Canada |
| 30910 | Timorex Gold | tea tree oil | 23.8% | Belchim Crop Protection Canada |
| 30392 | Torrent 400SC | cyazofamid | 34.5% | Belchim Crop Protection Canada |
| 32408 | Vegol Crop Oil | canola oil | 96% | Neudorff North America |
| 27965 | Vivando SC | metrafenone | 300 g/L | BASF Canada Inc. |
| 31557 | XenTari WG | <i>Bacillus thuringiensis</i> subsp <i>aizawai</i> | 48.1% | Valent Canada Inc. |
| 30321 | Zampro | ametoctradin + dimethomorph | 300 g/L + 225 g/L | BASF Canada Inc. |

¹ Pest Control Product Number. See the pesticide label to confirm the current product registration number (PCP#).